**`DEPARTMENT OF THE NAVY**
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From: Commandant of the Marine Corps
To:   Distribution List

Subj: DIRECT AIR SUPPORT CENTER TRAINING AND READINESS
      MANUAL

Ref:  (a) NAVMC 3500.14D

Encl: (1) DASC T&R Manual

1. <u>Purpose</u>.  In accordance with reference (a), enclosure (1)
contains revised standards and regulations regarding the
training for Direct Air Support Center (DASC).

2. <u>Cancellation</u>.  NAVMC 3500.120

3. <u>Scope</u>.  Highlights of major Training and Readiness (T&R)
planning considerations included in this DASC T&R Manual are as
follows:

   a.  Updated all chapters to comply with reference(a).

   b.  Reformatted the Core Progression Model Diagram.

   c.  Updated the T&R Syllabus Matrix.

   d.  Adjusted the Core Model Minimum Requirement table to
reflect current requirements.

   e.  Updated Mission Essential Tasks to reflect current unit
mission assignment.

4. <u>Information</u>.  Recommended changes to this Manual should be
submitted via the syllabus sponsor and the appropriate chain of
command to:  Commanding General (CG), Training and Education
Command (TECOM), Marine Air Ground Task Force Training and
Education Standards Division (MTESD) (C 466), Aviation Standards

Branch using standard Naval correspondence or the Automated Message Handling System plain language address:  CG TECOM MTESD.

5.  <u>Command</u>.  This Manual is applicable to the Marine Corps Total Force.

6.  <u>Certification</u>.  Reviewed and approved this date.

J. W. LUKEMAN
By direction

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CHAPTER 1

DIRECT AIR SUPPORT CENTER
TRAINING AND READINESS AGENCY REQUIREMENTS

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CHAPTER 1

DIRECT AIR SUPPORT CENTER
TRAINING AND READINESS AGENCY REQUIREMENTS

1.0 <u>TRAINING AND READINESS REQUIREMENTS</u>.  The goal of Marine Aviation is to attain and maintain combat readiness to support Expeditionary Maneuver Warfare while conserving resources.  The standards established in this program are validated by subject matter experts to maximize combat capabilities for assigned METs.  These standards describe and define unit capabilities and requirements necessary to maintain proficiency in mission skills and combat leadership.  Training events are based on specific requirements and performance standards to ensure a common base of training and depth of combat capability.

1.1 <u>MISSION</u>.  Support the MAGTF commander by providing Direct Air Support Center (DASC) capabilities for control and coordination of aircraft operating in direct support of Marine Air-Ground Task Force (MAGTF) Forces.

1.2 <u>TABLE OF ORGANIZATION (T/O)</u>.  Information below depicts the Direct Air Support Center (DASC) T/O information as of the date of this directive.

| MASS 1, 2, 3, 6 |
|---|
| T/O 8660 (M00820/25/30/M03028/M00983) |
| OFFICERS -- 1 (5902) |
| 1 (5970) |
| 1 (7202) |
| 33 (7208) |
| ENLISTED -- 25 (5939) |
| 6 (5974) |
| 77 (7242) |

1.3 <u>MISSION ESSENTIAL TASK LIST</u>.  The METL is a list of specified tasks a specific unit is designed to perform.  Core METs are drawn from the Marine Corps Task List (MCTL), are standardized by type unit, and are used for unit readiness.  Core Plus METs are additional METs that are theater specific and/or have a low likelihood of occurrence.  Core Plus METs may be included in readiness reporting when contained within an assigned Mission METL.  An Assigned Mission METL consists of only the selected METs (drawn from the MCTL, Core, or Core Plus METs) necessary for that Assigned Mission.

The unit METL consists of Mission Essential Tasks (METs).  Shading indicates Core Plus METs.

| DASC | | |
|---|---|---|
| MISSION ESSENTIAL TASK LIST (METL) | | |
| MET | ABBREVIATION | MCT DESCRIPTION |
| MCT 5.3.2.7.2 | DASC | CONDUCT DIRECT AIR SUPPORT CENTER OPERATIONS |

1.4 <u>MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION</u>

| DASC | | | | | | | |
|---|---|---|---|---|---|---|---|
| MISSION ESSENTIAL TASK LIST (METL) | | | | | | | |
| MET | ABBREVIATION | SIX FUNCTIONS OF MARINE AVIATION | | | | | |
| | | OAS | ASPT | AAW | EW | CoA&M | AerRec |
| MCT 5.3.2.7.2 | DASC | X | X | | | X | X |

## 1.5 MET TO CORE/MISSION/CORE PLUS SKILL MATRIX

### DASC
### MET TO CORE/MISSION/CORE PLUS SKILL MATRIX

#### 2000 PHASE — CORE SKILL

| MET | 2.7.2.3.5 |
|---|---|
| ACAD | X |
| ACR | X |
| ADPE | X |
| AFATDS | X |
| ASE | X |
| ASLT | X |
| C2SYS | X |
| CC | X |
| CD | X |
| COMM | X |
| COMSEC | X |
| CTRL | X |
| DC | X |
| DEPL | X |
| DOIC | X |
| EQUIP | X |
| FAM | X |
| FSC | X |
| IAWFA | X |
| IAWFAT | X |
| IAWFN | X |
| IAWFNT | X |
| IDM | X |
| IOS | X |
| IOW | X |
| MMGT | X |
| NET | X |
| OMGT | X |
| PMCM | X |
| SAD | X |
| SETUP | X |
| SHEL | X |
| SYSO | X |
| TCDS | X |
| TBMCS | X |
| TDSR | X |
| TMDE | X |
| TRHR | X |

#### 3000 PHASE — MISSION SKILL

| MCT / MET | 2.7.2.3.5 |
|---|---|
| ACR | X |
| ASE | X |
| ASLT | X |
| CC | X |
| DC | X |
| DEPL | X |
| DOIC | X |
| FSC | X |
| HD | X |
| IAWFA | X |
| IAWFN | X |
| IDM | X |
| MMGT | X |
| OMGT | X |
| PMCM | X |
| SAD | X |
| TAD | X |
| TCDS | X |
| TRHR | X |

#### 4000 PHASE — CORE PLUS SKILL

| MCT / MET | 5 |
|---|---|
| ACAD | X |
| ASE | X |
| ACR | X |
| C2SYS | X |
| CCD | X |
| CDLS | X |
| COC | X |
| CTRL | X |
| CTT | X |
| DOIC | X |
| FAM | X |
| HD | X |
| IDM | X |
| LMSMT | X |
| NET | X |
| OMGT | X |
| PMCM | X |
| SAD | X |
| SYSO | X |
| TAD | X |
| TBMCS | X |
| TDL | X |
| CC | X |
| INTEL | X |

## 1.6 MISSION ESSENTIAL TASKS (MET) OUTPUT STANDARDS

| Core METL Output Standards | | | |
|---|---|---|---|
| **MCT** | **MET** | **OUTPUT STANDARD** | **TOTAL CMMR CREWS** |
| 5.3.2.7.2 | Conduct Direct Air Support Center (DASC) Operations | Able to receive, process, and coordinate requests for immediate direct air support. | **4 DASC** **3 ASLT** **3 ASE** |
| | | Able to coordinate the execution of direct air support missions with other supporting arms through the appropriate FFCC/FSCC and other MACCS and external C2 agencies. | |
| | | Able to maintain constant communications with aircraft, TACPs, terminal controllers, and other MACCS agencies. | |
| | | Able to route all aircraft in DASC area of control. | |
| | | Able to conduct continuous DASC operations while displacing. | |
| | | Able to task organize to support DASC operations up to Division level. | |
| | | Able to task organize extensions to provide DASC capability throughout the AOR. | |

## 1.7 CORE MODEL MINIMUM REQUIREMENT (CMMR) SKILLS PROFICIENCY REQUIREMENTS.

The paragraphs and tables below delineate the minimum crew qualifications and designations required to contribute to unit readiness. Chapter 7 of the Aviation T&R Program Manual provides additional guidance and a detailed description of readiness reporting using the Defense Readiness Reporting System-Marine Corps (DRRS-MC) and the Current Readiness program. The CMMR is the optimum number of crew personnel, per crew position, to be trained per stage as detailed below.

| DASC | | | | | | | |
|---|---|---|---|---|---|---|---|
| **DASC CMMR CREWS** | | | | | | | |
| **SKILLS** | **5902** | **5970** | **5939** | **5974** | **7202** | **7208** | **7242** |
| **DASC COMBAT LEADERS** | | | | | | | |
| DSMO | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| ACMC | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| TDSABT | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| TDSAAT | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| IAT I | 0 | 0 | 4 | 2 | 0 | 0 | 0 |
| IAT II | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| IAM I | 1* | | | | 0 | 0 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| WTI | 1^ | | 0 | 0 | 1 | 1 | 2 |
| DASC OIC | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| DASC CHIEF | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| **DASC** | | | | | | | |
| SAD | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| TAD | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| HD | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| CC | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| IDM | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| ACR | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| FSC | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| TCDS | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| TAR/HR | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| ACBT | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| ACAT | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| ACCC | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| **ASE** | | | | | | | |
| ASE OIC | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| CTRL | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| IDM | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| TAR/HR | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| FSC | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| **ASLT** | | | | | | | |
| ASLT OIC | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| IDM | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| FSC | 0 | 0 | 0 | 0 | 0 | 0 | 6 |

Note: "*" Denotes that the Information Assurance Manager can be filled by any of the three included MOSs.

"^" Denotes either one can be designated as the squadron WTI.

1.8 <u>CORE MODEL TRAINING STANDARDS</u>. Not applicable.

1.9 <u>INSTRUCTOR DESIGNATIONS (5000 Phase)</u>

| **DASC** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **INSTRUCTOR DESIGNATIONS (5000 Phase)** | | | | | | | |
| **CMMR** | | | | | | | |
| **INSTRUCTOR DESIGNATIONS** | **5902** | **5970** | **5939** | **5974** | **7202** | **7208** | **7242** |
| BASIC INSTRUCTOR | 0 | 0 | 4 | 2 | 0 | 6 | 6 |
| SENIOR INSTRUCTOR | 1 | 1 | 2 | 1 | 0 | 4 | 4 |
| WEAPONS AND TACTICS INSTRUCTOR | 1^ | | 0 | 0 | 1 | 1 | 2 |

Note: "^" Denotes that the Electronics Maintenance Officer Aviation Command and Control (C2) and/or Data Systems Maintenance Officer may be designated as a WTI at the discretion of the unit Commanding Officer.

1.10 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)

| DASC REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase) | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 5902 | 5970 | 5939 | 5974 | 7202 | 7208 | 7242 |
| CERTFICATIONS | | | | | | | |
| QUALIFICATIONS | | | | | | | |
| ACBT | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| ACAT | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| TDSAAT | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| TDSABT | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| IOW SA | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| IOS SA | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| AFATDS SA | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| TBMCS SA | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| TRHR | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| ACR | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| TACDAS | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| FSC | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| IDM | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| CC | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| HD | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| TAD | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| SAD | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| ASLT OIC | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| ASE OIC | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| DESIGNATIONS | | | | | | | |
| ACMC | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| DSMO | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| WTI | 1^ | | 0 | 0 | 1 | 1 | 2 |
| DASC OIC | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| DASC CHIEF | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ACS CC | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| QC CD | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| IAT I | 0 | 0 | 4 | 2 | 0 | 0 | 0 |
| IAT II | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| IAM I | 1* | | | | 0 | 0 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AVCOMM QC | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| SYSAD QC | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| SAFETY CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| HAZMAT CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| PUB CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| TRNG CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| TOOLS CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| CAL CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| MOD CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| EMB CD | 0 | 0 | 1 | | 0 | 0 | 0 |
| GCSS CD | 0 | 0 | 1 | | 0 | 0 | 0 |

Note: "*" Denotes that the Information Assurance Manager can be filled by any of the four included MOSs. "^" Denotes that the Electronics Maintenance Officer Aviation Command and Control (C2) and/or Data Systems Maintenance Officer may be designated as a WTI at the discretion of the unit Commanding Officer.

CHAPTER 2

DATA SYSTEMS MAINTENANCE OFFICER (MOS 5902)/INDIVIDUAL TRAINING AND READINESS
REQUIREMENTS

CHAPTER RESERVED FOR FUTURE USE.

CHAPTER 3

DIRECT AIR SUPPORT CENTER MAINTENANCE AVIATION COMMUNICATIONS SYSTEMS
TECHNICIAN (MOS 5939)/INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

Enclosure (1)

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CHAPTER 3

AVIATION COMMUNICATIONS SYSTEMS TECHNICIAN/5939
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

3.0  AVIATION COMMUNICATIONS SYSTEMS TECHNICIAN /5939 INDIVIDUAL TRAINING AND
READINESS REQUIREMENTS.  This T&R Syllabus is based on specific goals and performance standards
designed to ensure individual proficiency in Core and Mission Skills.  The goal of this chapter is to develop
individual and unit warfighting capabilities.

3.1  5939 TRAINING PROGRESSION MODEL.  This model represents the recommended average training
progression for the Aviation Communications Systems Technician crewmember.  Units should use the model as a
point of departure to generate individual training plans.
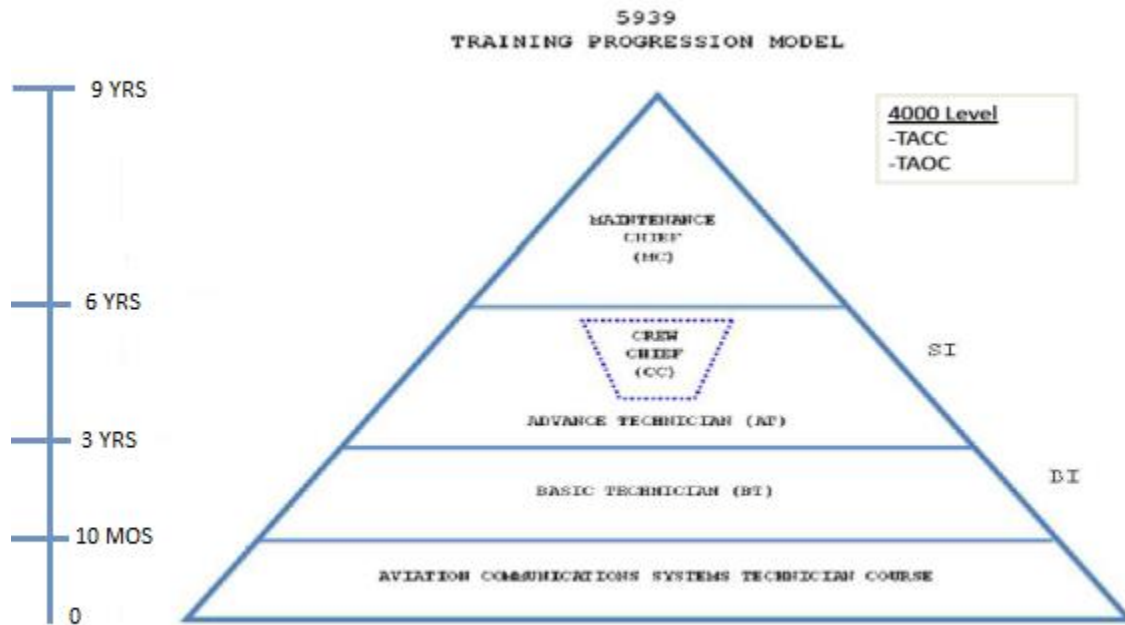


3.2  ABBREVIATIONS

| DASC MAINTENANCE MOS 5939 | |
|---|---|
| CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS | |
| CORE SKILL (2000 Phase) | |
| SEC | SECURITY |
| FAM | FAMILIARIZATION |
| CANT | COMPUTER AND NETWORK TRAINING |
| CD | COLLATERAL DUTIES |
| MMGT | MAINTENANCE MANAGEMENT |
| DEPL | DEPLOYMENT |

| | |
|---|---|
| AVCOMM | AVIATION COMMUNICATIONS |
| TDL | TACTICAL DATA LINKS |
| **MISSION SKILL (3000 Phase)** | |
| CANT | COMPUTER AND NETWORK TRAINING |
| MMGT | MAINTENANCE MANAGEMENT |
| DEPL | DEPLOYMENT |
| AVCOMM | AVIATION COMMUNICATIONS |
| **CORE PLUS (4000 Phase)** | |
| AVCOMM | AVIATION COMMUNICATIONS |
| TDL | TACTICAL DATA LINKS |
| MMGT | MAINTENANCE MANAGEMENT |
| **INSTRUCTOR (5000 Phase)** | |
| IUT | INSTRUCTOR UNDER TRAINING |
| BI | BASIC INSTRUCTOR |
| SI | SENIOR INSTRUCTOR |
| WTI | WEAPONS AND TACTICS INSTRUCTOR |
| **CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)** | |
| CD | COLLATERAL DUTIES |
| DESG | DESIGNATIONS |
| QUAL | QUALIFICATIONS |

## 3.3 DEFINITIONS

| TERM | DEFINITION |
|---|---|
| **Core Model** | The Core Model is the basic foundation or standardized format by which all T&Rs are constructed. The Core model provides the capability of quantifying both unit and individual training requirements and measuring readiness. This is accomplished by linking community Mission Statements, Mission Essential Task Lists, Output Standards, Core Skill Proficiency Requirements and Combat Leadership Matrices |
| **Core Skill** | Fundamental, environmental, or conditional capabilities required to perform basic functions. These basic functions serve as tactical enablers that allow crews to progress to the more complex Mission Skills. Primarily 2000 Phase events but may be introduced in the 1000 Phase. |
| **Mission Skill** | Mission Skills enable a unit to execute a specific MET. They are comprised of advanced event(s) that are focused on MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness developed during Core Skill training. 3000 Phase events. |
| **Core Plus Skill** | Training events that can be theater specific or that have a low likelihood of occurrence. They may be Fundamental, environmental, or conditional capabilities required to perform basic functions. 4000 Phase events. |
| **Core Plus Mission** | Training events that can be theater specific or that have a low likelihood of occurrence. They are comprised of advanced event(s) that are focused on Core Plus MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness. 4000 Phase events. |
| **Core Skill Proficiency (CSP)** | CSP is a measure of training completion for 2000 Phase events. CSP is attained by executing all events listed in the Attain Table for each Core Skill. The individual must be simultaneously proficient in all events within that Core Skill to attain CSP. |
| **Mission Skill Proficiency (MSP)** | MSP is a measure of training completion for 3000 Phase events. MSP is attained by executing all events listed in the Attain Table for each Mission Skill. The individual must be simultaneously proficient in all events within that Mission Skill to attain MSP. MSP is directly related to Training Readiness. |
| **Core Plus Skill Proficiency (CPSP)** | CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP |
| **Core Plus Mission Proficiency (CPMP)** | CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP |

| | |
|---|---|
| **MET Phase** | This Phase represents community specific unit METs. It combines CMMR crew proficient Marines, Combat Leaders, and designated non-aviation PMOS Marines into combat capable teams. |

## 3.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

3.4.1   Management of individual CSP/MSP/CPSP/CPMP serves as the foundation for developing proficiency requirements in DRRS.

3.4.2   Individual CSP is a "Yes/No" status assigned to an individual by Core Skill.  When an individual attains and maintains CSP in a Core Skill, the individual counts towards CMMR Unit CSP requirements for that Core Skill.

3.4.3   Proficiency is attained by individual Core/Mission/Core Plus skill where the training events for each skill are determined by POI assignment.

3.4.4        Once proficiency has been attained by Core/Mission/Core Plus Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the maintain table and in the "Maintain POI" column of the T&R syllabus matrix.  An individual maintains proficiency by individual Core/Mission/Core Plus Skill.

**\*Note\***
Individuals may be attaining proficiency in some
Core/Mission/Core Plus Skills while maintaining proficiency
in other Core/Mission/Core Plus Skills.

3.4.5        Once proficiency has been attained, should one lose proficiency in an event in the "Maintain POI" column, proficiency can be re-attained by demonstrating proficiency in the delinquent event.  Should an individual lose proficiency in all events in the "Maintain POI" column by Core/Mission/Core Plus Skill, the individual will be assigned to the Refresher POI for that Skill.  To regain proficiency for that Core/Mission/Core Plus Skill the individual must demonstrate proficiency in all R-coded events for that Skill.

**\*Note\***
See Chapter 2 for amplifying information on POI updating.

| DASC MAINTENANCE MOS 5939 | | | | | |
|---|---|---|---|---|---|
| **ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI** | | | | | |
| **ATTAIN PROFICIENCY** | | | | **MAINTAIN** | |
| **BASIC POI** | | **REFRESHER POI** | | **PROFICIENCY** | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| **CORE SKILL (2000 Phase)** | | | | | |
| SEC | 2000R | SEC | 2000R | SEC | 2000R |
| | 2001R | | 2001R | | |
| | 2002R | | 2002R | | 2002R |
| | 2003R | | 2003R | | 2003R |
| | 2004R | | 2004R | | 2004R |
| | 2005R | | 2005R | | |
| | 2006 | | | | |
| FAM | 2020R | FAM | 2020R | FAM | 2020R |
| | 2021 | | | | |
| | 2022 | | | | |
| | 2023 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| CANT | 2040R | CANT | 2040R | CANT | 2040R |
| | 2041R | | 2041R | | 2041R |
| | 2042R | | 2142R | | 2042R |
| | 2043R | | 2043R | | 2043R |
| | 2044R | | 2044R | | 2044R |
| | 2045R | | 2045R | | 2045R |
| | 2046R | | 2046R | | 2046R |
| CD | 2060 | CD | | CD | |
| | 2061 | | | | |
| | 2062 | | | | |
| | 2063 | | | | |
| | 2064 | | | | |
| | 2065 | | | | |
| | 2066 | | | | |
| | 2067R | | 2067R | | |
| | 2068 | | | | |
| MMGT | 2100 | MMGT | | MMGT | |
| | 2101 | | | | |
| | 2102 | | | | |
| | 2103 | | | | |
| | 2104 | | | | |
| | 2105 | | | | |
| | 2106 | | | | |
| | 2107R | | 2285R | | |
| | 2108 | | | | |
| | 2109R | | 2290R | | |
| | 2110R | | 2295R | | |
| | 2111 | | | | |
| | 2112 | | | | |
| DEPL | 2130R | DEPL | 2130R | DEPL | |
| | 2131 | | | | |
| | 2132 | | | | |
| | 2133 | | | | |
| | 2134 | | | | |
| | 2135R | | 2135R | | 2135R |
| | 2136 | | | | |
| | 2137 | | | | |
| | 2138 | | | | |
| | 2139 | | | | |
| | 2140R | | 2140R | | 2140R |
| | 2141 | | | | |

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|---|---|---|---|---|---|
| | 2142 | | | | |
| | 2143R | | 2143R | | 2143R |
| AVCOMM | 2200 | AVCOM | | AVCOM | |
| | 2201R | | 2201R | | |
| | 2202R | | 2202R | | |
| | 2203R | | 2203R | | |
| | 2204R | | 2204R | | |
| | 2205R | | 2205R | | |
| | 2206R | | 2206R | | |
| | 2207R | | 2207R | | |
| | 2208R | | 2208R | | |
| | 2209R | | 2209R | | 2209R |
| | 2210R | | 2210R | | 2210R |
| | 2211R | | 2211R | | 2211R |
| | 2212R | | 2212R | | 2212R |
| | 2213R | | 2213R | | 2213R |
| | 2214R | | 2213R | | 2213R |
| | 2215R | | 2213R | | 2213R |
| | 2216R | | 2213R | | 2213R |
| | 2217R | | 2217R | | |
| TDL | 2800R | TDL | 2800R | TDL | 2800R |
| | 2801R | | 2801R | | 2801R |
| | 2802R | | 2802R | | 2802R |
| | 2803R | | 2803R | | 2803R |
| | 2805R | | 2805R | | 2805R |
| | 2806R | | 2806R | | 2806R |
| | 2808 | | | | |
| | 2809R | | 2809R | | 2809R |
| | 2826 | | | | |
| MISSION SKILL (3000 Phase) | | | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| CANT | 3000R | CANT | 3000R | CANT | 3000R |
| | 3001R | | 3001R | | 3001R |
| | 3002R | | 3002R | | 3002R |
| | 3003R | | 3003R | | 3003R |
| MMGT | 3020R | MMGT | 3020R | MMGT | 3020R |
| | 3021R | | 3021R | | 3021R |
| | 3022 | | | | |
| DEPL | 3040R | DEPL | 3040R | DEPL | 3040R |
| | 3041R | | 3041R | | 3041R |
| | 3042R | | 3042R | | 3042R |

Enclosure (1)

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|---|---|---|---|---|---|
| | 3043R | | 3043R | | 3043R |
| | 3044R | | 3044R | | 3044R |
| | 3045R | | 3045R | | 3045R |
| | 3046R | | 3046R | | 3046R |
| | 3047R | | 3047R | | 3047R |
| AVCOMM | 3100R | AVCOMM | 3100R | AVCOMM | 3100R |
| | 3101R | | 3101R | | 3101R |
| | 3102R | | 3102R | | 3102R |
| CORE PLUS (4000 Phase) | | | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| AVCOM | 4218 | AVCOM | | AVCOM | |
| | 4219 | | | | |
| | 4220 | | | | |
| | 4221 | | | | |
| TDL | 4815 | TDL | | TDL | |
| | 4816 | | | | |
| | 4818 | | | | |
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| | 4840 | | | | |
| | 4841 | | | | |
| | 4842 | | | | |
| | 4843 | | | | |
| | 4844 | | | | |
| | 4845 | | | | |

| 4846 | | | |
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| 4847 | | | |
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| 4849 | | | |
| 4850 | | | |
| 4851 | | | |
| 4852 | | | |
| 4853 | | | |
| 4854 | | | |
| 4855 | | | |
| "S" PREFIX AND BLUE FONT = SIMULATOR EVENT | | | |
| "R" SUFFIX AND GREY HIGHLIGHT = R-CODED "REFRESHER" EVENT | | | |

3.5      REQUIREMENT, CERTIFICATION, QUALIFICATION AND DESIGNATION
TABLES.  The tables below delineate T&R events required to be completed to attain proficiency for
select certifications, qualifications and designations. In addition to event requirements, all required
stage lectures, briefs, squadron training, prerequisites, and other criteria shall be completed prior to
completing final events. Certification, qualification and designation letters signed by the commanding
officer shall be placed in training Performance Records and NATOPS.  See Chapter 6 of the Aviation
T&R Program Manual on regaining lost qualifications.

3.5.1 INSTRUCTOR DESIGNATIONS

| MTACS MAINTENANCE MOS 5939 INSTRUCTOR DESIGNATIONS (5000 Phase) | |
|---|---|
| **INSTRUCTOR DESIGNATION** | **EVENTS** |
| BASIC INSTRUCTOR (BI) (6320) | 5000, 5010, 5020, |
| SENIOR INSTRUCTOR (SI) (DESG 6321) | 5000, 5010, 5020, 5100, 5110, 5120, 5130 |

3.5.2 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

| DASC MAINTENANCE MOS 5939 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase) | |
|---|---|
| **RCQD** | **EVENTS** |
| MAINTENANCE SAFETY NCO (SAF CD) (DESG 6100) | 2064, 2100 |
| MAINTENANCE HAZMAT NCO (HAZMAT CD) (DESG 6101) | 2064, 2100 |
| MAINTENACE PUBLICATIONS NCO (PUB CD)(DESG 6102) | 2063, 2100 |
| MAINTENANCE TOOLS NCO (TOOLS CD) (DESG 6103) | 2062, 2100 |
| MAINTENANCE CALIBRATIONS NCO (CAL CD) (DESG 6104) | 2060, 2100 |
| MAINTENANCE MODIFICATIONS NCO | 2061, 2100 |

| | |
|---|---|
| (MOD CD) (DESG 6105) | |
| MAINTENANCE EMBARK NCO (EMB CD) (DESG 6106) | 2065, 2100 |
| MAINTENANCE MANAGEMENT CD (DESG 6107) | 2100, 2102, 2107 |
| MAINTENANCE TRAINING NCO (TRNG NCO) (DESG 6108) | 2068, 2100 |
| QUALITY CONTROL COLLATERAL DUTY (QC CD) (DESG 6109) | 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2067, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3000, 3001, 3040, 3100, 3101 |
| INFORMATION ASSURANCE TECHNICIAN LEVEL 1 (IAT I)(DESG 6250) | NONE |
| INFORMATION ASSURANCE MANAGER LEVEL I (IAM I) (DESG 6253) | NONE |
| BASIC INSTRUCTOR (BI) (DESG 6320) | 5000, 5010, 5020 |
| SENIOR INSTRUCTOR (SI) (DESG 6321) | 5000, 5010, 5020, 5100, 5110, 5120, 5130 |
| AVIATION COMMUNICATION BASIC TECHNICIAN (ACBT)(QUAL 6440) | 2000, 2001, 2020, 2021, 2040, 2041, 2100, 2101, 2102, 2103, 2130, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 3040, 3100 |
| AVIATION COMMUNICATION ADVANCED TECHNICIAN (ACAT) (QUAL 6441) | 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3000, 3001, 3040, 3100, 3101, 8000 |
| AVIATION COMMUNICATIONS CREW CHIEF (ACCC) (QUAL 6442) | 2000, 2001, 2002, 2004, 2020, 2021, 2022, 2023, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2800, 2801, 2802, 2803, 2809, 3002, 3003, 3020, 3040, 3041, 3042, 3100, 3101, 3102, 8000 |
| AVIATION COMMUNICATIONS MAINTENANCE CHIEF (ACMC) (DESG 6443) | 2000, 2001, 2002, 2003, 2005, 2006, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2800, 2801, 2802, 2803, 2805, 2806, 2808, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 3000, 3001, 3003, 3020, 3021, 3022, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3100, 3101, 3102, 8000, 8020, 8040, 8060, 8080 |
| IAWF A+ TECHNICIAN (DESG 6560) | |
| IAWF NETWORK+ TECHNICIAN (DESG 6565) | |

3.6  <u>5939 PROGRAMS OF INSTRUCTION (POI)</u>.  These tables reflect average time-to-train versus the minimum to maximum time-to-train parameters in the Training Progression Model.

3.6.1  <u>Basic POI</u>

| DASC MAINTENANCE 5939 BASIC POI | | |
|---|---|---|
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |
| 1-33 | CORE SKILL INTRODUCTION TRAINING | MCCES |
| 34-58 | CORE SKILL TRAINING | TACTICAL SQUADRON |
| 59-82 | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| 83-88 | CORE PLUS | TACTICAL SQUADRON |

3.6.2  Refresher POI

| DASC MAINTENANCE MOS 5939 REFRESHER POI | | |
|---|---|---|
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |
| VARIES | CORE SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | CORE PLUS | TACTICAL SQUADRON |

NOTE 1:  TRAINING DURATIONS VARIES BY POSITION BEING TRAINED.  SEE PROGRESSION MODEL FOR NOTIONAL TRAINING TIMES.

3.7  SYLLABUS NOTES

3.7.1  Environmental Conditions Matrix

| Environmental Conditions | |
|---|---|
| Code | Meaning |
| D | Shall be conducted during hours of daylight: (by exception - there is no use of a symbol) |
| N | Shall be conducted during hours of darkness, may be aided or unaided |
| N* | Shall be conducted during hours of darkness must be unaided |
| (N*) | May be conducted during hours of darkness – If conducted during hours of darkness must be unaided |
| (N) | May be conducted during darkness – If conducted during hours of darkness; may be aided or unaided |
| NS | Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices |
| (NS) | May be conducted during darkness – If conducted during hours of darkness; must be with Night Vision Devices |
| Note – If the event is to be conducted in the simulator, the Instructor shall ensure the proper environmental conditions for the event. | |

3.7.2  Device Matrix

| DEVICE | |
|---|---|
| Symbol | Meaning |
| L | Event shall be conducted live (conducted in the field/garrison, during an exercise, etc).  Requires live (non-simulated) execution of the event. |
| L/S | Event performed live preferred/simulator optional. |
| S/L | Event performed in simulator preferred/live optional. |
| G | Ground/academic training.  May include Distance Learning, CBT, lectures, self paced. |
| CBT | Computer Based Training |
| LAB | Laboratory |

| | |
|---|---|
| **LEC** | Lecture |
| **CP** | Command Post |
| **TEN** | Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station. |
| **TEN+** | Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement. |
| Note – If the event is to be flown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event. ||

### 3.7.3 Program of Instruction Matrix

| PROGRAM OF INSTRUCTION MATRIX | | |
|---|---|---|
| **Program of Instruction (POI)** | **Symbol** | **Aviation Ground** |
| Basic | **B** | Initial MOS Training |
| Refresher | **R** | Return to community from non (MOS/Skill) associated tour |
| Maintain | **M** | All individuals who have attained CSP/MSP/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency. |

### 3.7.4 Event Terms

| EVENT TERMS | |
|---|---|
| **TERM** | **DESCRIPTION** |
| Discuss | An explanation of systems, procedures, or tactics during the brief, exercise, or debrief. Student is responsible for knowledge of procedures. |
| Demonstrate | The description and performance of a particular event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required event. |
| Introduce | The instructor may demonstrate a procedure or event to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures. |
| Practice | The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance. |
| Review | Demonstrated proficiency of an event by the student. |
| Evaluate | Any event designed to evaluate team/crew standardization that does not fit another category. |
| E-Coded | This term means an event evaluation form is required each time the event is logged. Requires evaluation by a certified standardization instructor (NATOPS I, WTI, INST Evaluator etc.). |

### 3.8 ACADEMIC PHASE (0000)

#### 3.8.1 Purpose. **RESERVED FOR FUTURE USE**

#### 3.8.2 General

3.8.2.1 Admin Notes.

3.8.2.2 Prerequisites.

3.8.2.3 Stages.

### 3.9 CORE SKILL INTRODUCTION PHASE (1000)

3.9.1 <u>Purpose</u>. To provide entry level instruction to develop the basic skills necessary to become a MOS 5939 Aviation Communication Systems Technician. This training is completed upon graduation from the Aviation Communication Systems Technician Course.

3.9.2 <u>General</u>.

3.9.2.1 <u>Prerequisite</u>. Meet the requirement delineated in the MOS Manual (MCBul 1200).

3.9.2.2 <u>Admin Notes</u>.  None

3.9.2.3 <u>Stages</u>.  The following stages are included in the Core Skill Introduction Phase of training.

9CM5-1500                    0                                                                                G

    <u>Goal</u>.  Describe the characteristics of the Marine Air Command and Control System (MACCS).

    <u>Requirement</u>.  Given the references:

    1. Describe the six functions of Marine Aviation.
    2. Describe the mission of the MACCS.
    3. Describe the organization of the MACCS tactical agencies resident within the Marine Air Control Group (MACG).
    4. Describe the function(s) of each MACCS agency within the MACG.
    5. Describe the MACCS specific equipment systems within the MACG.
    6. Describe the characteristics of the Multi-Tactical Data Link network used within the MACG.

    <u>Performance Standard</u>.  N/A

    <u>Prerequisite</u>.  None

    <u>Ordnance</u>.  None

    <u>Range</u>.  None

    <u>External Syllabus Support</u>.  None

    <u>Reference</u>.

59CM-1501                    0                                                                                G

    <u>Goal</u>.  Measure circuit performance.

    <u>Requirement</u>.  Given the references:

    1. Observe safety precautions
    2. Measure electronic parameters (voltage, current, resistance, time)
    3. Calculate electronic parameters
    4. Identify electronic components
    5. Read schematics

    <u>Performance Standard</u>.  N/A

    <u>Prerequisite</u>.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

59CM-1502          0                                          G

Goal.  Establish secure RF communications using radios within the MACCS.

Requirement.  Given the references:

1. Describe the characteristics of RF propagation
2. Configure radio
3. Assemble radio
4. Disassemble radio
5. Demonstrate safe handling of controlled items
6. Load crypto
7. Load a frequency
8. Load time

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

59CM-1503          0                                          G

Goal.  Describe proper handling and storage of classified materials.

Requirement.

1. State the different levels of classification.
2. State the marking Requirements for each level of classification.
3. State the Two-Person Integrity (TPI) rule.
4. State storage procedures for each level of classification.
5. Identify transportation Requirements for classified material.
6. Identify the approved security containers utilized for storage.
7. Identify the procedures for handling Controlled Cryptographic Items (CCIs).

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

59CM-1504                0                                                        G

Goal.  Provide cyberwarfare technical support for MACCS specific equipment.

Requirement.  Provide the references and appropriate equipment:

1. Install and configure hardware, software, and peripheral equipment
2. Manage accounts, networks, and access to systems and equipment
3. Monitor client-level computer system performance
4. Diagnose and resolve operator reported system incidents
5. Troubleshoot system hardware and software
6. Assist in the execution of disaster recovery continuity of operations plans

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

59CM-1505                0                                                        G

Goal.  Repair common cables.

Requirement.  Provided the appropriate equipment repair:

1. Ethernet/RJ-45 cable
2. BNC cable
3. RF cable
4. Power cable
5. Data cable
6. Fiber optic cable

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

59CM-1506               0                                      G

Goal.  Demonstrate an earth ground installation.

Requirement.  Given the references, grounding kit and PPE, perform the following:

1. Identify ground tolerances for equipment and personnel.
2. Identify methods of grounding.
3. Identify a method for improving a ground.
4. Identify proper location to test a ground.
5. Install an earth ground.
6. Verify proper grounding reading utilizing appropriate test equipment.

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

ACST-1030               *         B

Goal.  Maintain the Communication System (CS).

Requirement.  Given the references, a CS, and a simulated communication plan:

1. Describe the PMCS process for the CS.
2. Isolate a fault in the CS DC Power Distribution System.
3. Isolate a fault in the CS AC Power Distribution System.
4. Isolate a fault in the CS Radio Distribution System.
5. Isolate a fault in the CS Signal Distribution System.
6. Restore the CS to an operational state.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)

2. TM 12041A/12050-OD/2 System Users Manual (SUM)

ACST-1031         *        B

Goal. Maintain voice circuits within the Common Aviation Command and Control System (CAC2S)

Requirement. Given the references, a Communication System (CS), a Processing and Display System (PDS), and a simulated communications plan:

1. Perform an operational check of voice circuits
2. Maintain radio circuits
3. Maintain secure telephone circuits
4. Maintain non-secure telephone circuits
5. Maintain public address circuits
6. Maintain the voice signal distribution system
a. Maintain the physical layer
(1) Unshielded Twisted Pair Cabling (UTPC)
(2) Fiber Optic Cabling
b. Maintain network devices

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2. TM 12041A/12050-OD/2 System Users Manual (SUM)

ACST-1032         *        B

Goal. Set-up the Communication System (CS) for operation.

Requirement. Given the references, a CS, and a simulated communication plan:

1. Describe the CS.
2. Emplace the CS.
3. Initialize the CS Power Distribution System.
4. Initialize the CS Radio Distribution System.
5. Initialize the CS Signal Distribution System.
6. Configure communication circuits.
7. Conduct an operational check on the CS.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/2 System Users Manual (SUM)

ACST-1033                     *          B

Goal.  Initialize voice circuits within the Common Aviation Command and Control System (CAC2S).

Requirement.  Given the references, a Communication System (CS), a Processing and Display System (PDS), and a simulated communications plan:

1.  Describe the CAC2S voice network.
2.  Configure radio circuits.
3.  Configure secure telephone circuits.
4.  Configure non-secure telephone circuits.
5.  Configure public address circuits.
6.  Configure voice signal distribution system components.
7.  Monitor the voice network.
8.  Integrate the CS with the PDS.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/2 System Users Manual (SUM)

ACST-1034                     *          B

Goal.  Configure the CAC2S voice network.

Requirement.  Given references, network equipment, CAC2S network design document, a CAC2s network design diagram, and appropriate software:

1.  Describe networking fundamentals.
2.  Describe functions of networking equipment.
3.  Configure a switch for CAC2s voice traffic.
4.  Utilize network monitoring software to maintain the network.

Performance Standard.  Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Computer Networks and Internets book 0-13-083617-6
2. Data Communications Networking Devices book part 1 0-47197515-X, PT1
3. Data Communications Networking Devices book part 2 0-471-97515-X, PT2
4. TCP/IP Network Administration 1-56592 322-7
5. Essential System Administration, O'Reilly & Associates 1 56592-127-5
6. CISCO Routers 24/SEVEN book 0-7821-2646-4

ACST-1035                    *          B

Goal. Maintain the DSAN software.

Requirement. Given the references, DSAN equipment, and a simulated communication plan:

1. Restore DSAN software on a DSU.
2. Restore DSAN software on a VSOL.
3. Reimage a VSOL.
4. Isolate a fault in the DSAN.
5. Perform routine network maintenance tasks.
6. Monitor the DSAN utilizing monitoring software.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM-10576C-OI/1A – Communications Interface System (CIS) CS(V)3 Operation and Maintenance Instructions
2. CDC DOC 762324 – Network Access Unit Equipment Description, Maintenance Instructions, and Illustrated Parts List
3. CDC DOC 762325 – User Control Device Equipment Description, Maintenance Instructions, and Illustrated Parts List
4. CDC DOC 762326A – Communication Distribution System (CAC2S) System Description and Overview

ACST-1036                    *          B

Goal. Configure the Distributed Scalable AccessNet (DSAN).

Requirement.  Given the references, DSAN equipment, and a simulated communication plan:

1. Describe the DSAN software.
2. Describe the DSAN equipment.
3. Configure a Digital Switching Unit.
4. Configure a Voice System Operator Laptop (VSOL).
5. Conduct an operational check of the DSAN.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM-10576C-OI/1A – Communications Interface System (CIS) CS(V)3 Operation and Maintenance Instructions
2. CDC DOC 762324 – Network Access Unit Equipment Description, Maintenance Instructions, and Illustrated Parts List
3. CDC DOC 762325 – User Control Device Equipment Description, Maintenance Instructions, and Illustrated Parts List
4. CDC DOC 762326A – Communication Distribution System (CAC2S) System Description and Overview


ACST-1037                    *           B

Goal.  Configure AN/VRC-103.

Requirement.  Given the references, a simulated communication plan, an AN/VRC-103, a fill device, and a computer with Radio Programming Application (RPA) software:

1. Describe the AN/VRC-103.
2. Perform a limited technical inspection of the AN/VRC-103.
3. Manually configure the AN/VRC-103.
4. Configure the AN/VRC-103 using the Radio Programming Application (RPA) software.
5. Perform an operational check of an established AN/VRC-103 radio net.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 10597A-OR/4 – PRC-117 Operation Manual
2.  TM 11255A-OR/1 – AN/VRC-103(V)2 Vehicular Radio Communication System Operation and Maintenance Manual

ACST-1038                    *            B

Goal.  Configure AN/VRC-104.

Requirement.  Given the references, a simulated communication plan, an AN/VRC-104, a fill device, and a computer with Radio Programming Application (RPA) software:

1.  Describe the AN/VRC-104.
2.  Perform a limited technical inspection of the AN/VRC-104.
3.  Manually configure the AN/VRC-104.
4.  Configure the AN/VRC-104 using the Radio Programming Application (RPA) software.
5.  Perform an operational check of an established AN/VRC-104 radio net.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 10822A-10/1 – AN/PRC-150(V)(C) Operation Manual
2.  RF-5800H 150-WATT Communication System and Installation & Maintenance Manual

ACST-1039                    *            B

Goal.  Maintain the AN/GRC-256A.

Requirement.  Given the references, TMDE, and an AN/GRC-256A:

1.  Describe the characteristics of the AN/GRC-256A.
2.  Configure the AN/GRC-256A.
3.  Conduct required PMCS for the AN/GRC-256A.
4.  Isolate a faulty LRU within the AN/GRC-256A.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM-11228A-OI/1 – RT-9000 Operation and Maintenance Manual
2. TM-11228A-OI/2 – LPA-9500 Operation and Maintenance Manual

ACST-1040                    *            B

Goal.  Maintain the AN/GRC-171B(V)4.

Requirement.  Given the references, TMDE, and an AN/GRC-171B(V)4:

1. Describe the characteristics of the AN/GRC-171B(V)4.
2. Configure the AN/GRC-171B(V)4.
3. Conduct required PMCS on the AN/GRC-171B(V)4.
4. Isolate a faulty LRU within the AN/GRC-171B(V)4.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 09780A-13&P/1 W/CH 1-7

ACST-1043                    *            B

Goal.  Configure an AN/GRC-256A for operations

Requirement.  Given the references:

1. Select the statement that identifies a safety precaution
2. Select the statement that describes the following technical characteristics:
a. Transmit Frequency Range.
b. Receive Frequency Range.
c. Power Out in all modes of operation.
d. Receive sensitivity level in all modes of operation.
3. Select the statement that describes a function of the RT-9000 control/indicator.
4. Configure the RT-9000 for single channel mode of operation.
5. Configure the RT-9000 for multiple channel mode of operation.
6. Configure the RT-9000 for data link operations (TADIL A).
7. Select statement that describes a function of LPA 9500 Power Amplifier control/indicator.
8. Configure the LPA-9500 for operation.

Performance Standard.  Pass an exam.

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM-11228A-OI/1 – RT-9000 Operation and Maintenance Manual
2.  TM-11228A-OI/2 – LPA-9500 Operation and Maintenance Manual


3.10  CORE SKILL PHASE (2000)

3.10.1  Purpose.  To develop core skill proficiency for 5939 personnel to be able to perform duties while assigned to the communications section.

     (1) Basic Technicians will gain core skill proficiency in basic radio operations and maintenance, communications systems operations and maintenance.

     (2) Advance Technicians will gain core skill proficiency in advanced radio operations and maintenance, communications systems operations and maintenance, and SATCOM operations.

     (3) Crew Chiefs will gain core skill proficiency in managing crew level communications operations to include radio operations, communications systems operations and maintenance, SATCOM operations, and maintenance management.  This training will provide the crew chief the skills necessary to run a communications crew

     (4) Maintenance Chiefs will gain core skill proficiency in supervising and managing maintenance section operations to include radio operations and maintenance, communications systems operations and maintenance, SATCOM operations, and maintenance management.  This training will provide the maintenance chief the necessary skills to run a communications section.

3.10.2  General.

3.10.2.1  Prerequisite.

     (1) Aviation Communications Systems Basic Technician (ACBT).  Core Skill Introduction training must be completed prior to beginning ACBT training.

     (2) Aviation Communications Systems Advance Technician (ACAT).  Must be qualified as an ACBT prior to beginning ACAT training.

     (3) Aviation Communications Systems Crew Chief (ACCC).  Must be qualified as an ACAT prior to beginning ASCC training.

     (4) Aviation Communications Systems Maintenance Chief (ACMC).  Must be qualified as an ACAT prior to beginning ACMC training.

3.10.2.2  Admin Notes.


     (1) Training in this phase does not preclude simultaneous training in the mission skill and core plus phases provided applicable prerequisites have been met.

     (2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

3.10.2.3  Stages.  The following stages are included in the Core Skill Introduction Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 3.10.3 | SECURITY (SEC) |
| 3.10.4 | FAMILIARIZATION (FAM) |
| 3.10.5 | COMPUTER AND NETWORK TRAINING (CANT) |
| 3.10.6 | COLLATERAL DUTIES (CD) |
| 3.10.7 | MAINTENANCE MANAGEMENT (MMGT) |
| 3.10.8 | DEPLOYMENT (DEPL) |
| 3.10.9 | AVIATION COMMUNICATIONS (AVCOMM) |
| 3.10.10 | TACTICAL DATA LINK (TDL) |

3.10.3  SECURITY (SEC) STAGE

3.10.3.1  Purpose.  Provide an overview of the capabilities and limitations of unit communication systems.

3.10.3.2  General

3.10.3.2.1  Admin Notes.  Knowledge in the capabilities of communication systems is essential to conduct maintenance actions and employ the equipment.

3.10.3.2.2  Crew Requirements.  Training will be executed as individual training, with appropriate assistance at the crew level as needed, and as dictated by the conditions listed for each event.  Crewmember(s) assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual's requirement to demonstrate the performance standard.


SEC-2000        2.0      365      B,R,M                                                          L

   Goal.  Describe proper handling and storage of classified materials.

   Requirement.  Perform the following:

   1.  State the different levels of classification.
   2.  State the marking requirements for each level of classification.
   3.  State the Two-Person Integrity (TPI) rule.
   4.  State storage procedures for each level of classification.
   5.  Identify transportation requirements for classified material.
   6.  State the sections of the SF-702.
   7.  Identify the approved security containers utilized for storage.
   8.  Identify the procedures for handling Controlled Cryptographic Items (CCIs).

   Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

   Instructor.  BI

   Prerequisite.  None

   Ordnance.  None

   Range.  None

External Syllabus Support. None

Reference.
1. SECNAV M-5510.36
2. MCO 5530.14
3. EKMS-1_ (KMI)
4. Unit SOP

SEC-2001        2.0        *        B,R                                                          L

Goal. Use a Common Fill Device.

Requirement. Given (2) loaded common fill devices and a zeroized cryptographic device, perform the following:

1. Describe the purpose of common fill device.
2. Define the common fill device loading procedure.
3. Configure the common fill device.
4. Identify common fill device indicators and messages.
5. Transfer key material to Controlled Cryptographic Item (CCI) equipment.
6. Transfer cryptographic information from common fill device to common fill device.
7. Destroy superseded keying material within the common fill device.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EKMS-1 (KMI)
2. Technical Manual

SEC-2002        2.0        1095        B,R,M                                                          L

Goal. State the physical security requirements for classified areas.

Requirement. Given a tactical scenario and references, identify the following:

1. Purpose of a guard schedule.
2. Purpose of access control.
3. Purpose of the entry control point.
4. Perimeter barrier requirements.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 5530.14_
2.  SECNAV M-5510.36


SEC-2003        2.0        1095        B,R,M                                                    L

Goal.  Extract key material information from EKMS/KMI COMSEC callout.

Requirement.  Given an EKMS/KMI COMSEC callout and references, perform the following:

1.  State the purpose of the EKMS/KMI COMSEC callout.
2.  Identify the five main pieces of key information:
    a.  Short Title.
    b.  Edition.
    c.  Segment.
    d.  Classification.
    e.  Supersession date.
3.  Identify segment roll over dates and time.
4.  Identify short titles applicable to specific implementations within the unit

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  EKMS-1 (KMI)
2.  MCWP 3-40.3
3.  CMR


SEC-2004        2.0        1095        B,R,M                                                    L

Goal.  Create a classified area physical security diagram.

Requirement.  Given a tactical scenario and references, create a diagram that includes the following:

1. Entry control point(s).
2. Perimeter barrier.
3. Communication lines.
4. Storage area locations

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2000, 2002

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 5530.14
2. SECNAV M-5510.36


SEC-2005        3.0        *        B,R                                                    L

Goal. Ensure classified material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify classified material is stored.
2. Verify required Standard Forms are completed.
3. Verify classified material is transported.
4. Verify CCI is stored IAW the reference

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. SECNAV M-5510.36
2. MCO 5530.14
3. Unit SOP


SEC-2006        4.0        *        B                                                        L

Goal. Identify Cryptographic Controlled Item (CCI) devices organic to the section.

Requirement.  Perform the Following:

1.  Inventory all CCI on the SF-153.
2.  State the purpose of each piece of equipment.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manual
2.  CMR


3.10.4  FAMILIARIZATION (FAM) STAGE

3.10.4.1  Purpose.  To provide core skills necessary to build foundational skills within Marine Air Command and Control System (MACCS).

3.10.4.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.


FAM-2020        3.0        1095     B,R,M                RIL-C Earth Ground Resistance Tester (Ohmmeter)   L

Goal.  Measure Soil Resistivity.

Requirement.  Given the references, grounding kit and PPE, perform the following:

1.  Measure resistivity of soil of a given area.
2.  Determine suitability of grounds for TE equipment.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 9406-15 Ground Procedures Manual
2.  R1L-C User's Manual

FAM-2021        2        *        B                                                      AN/PSN-13        L

Goal.  Operate the handheld GPS

Requirement.  Perform the following:

1.  State the purpose of the handheld GPS
2.  State the characteristics of the handheld GPS
3.  Find current location (coordinates including elevation)
    a.  MGRS
    b.  LAT/LONG
    c.  UTM/UPS
4.  Plot a way point
5.  Given coordinates, navigate to a location

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 09880C-OR
2.  TM 09880C-OI AN/PSN-13

FAM-2022        2.0        *        B                                                              L

Goal.  Describe the characteristics of unit T/E generators.

Requirement.  Identify the following:
    1.  Frequency.
    2.  Voltage(s).
    3.  Load capacity.
    4.  Fuel consumption.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  http://www.marcorsyscom.marines.mil/ProgramOffices/EPSHome/MobileElectricPower.aspx

FAM-2023         1.0        *        B                                                                    L

Goal.  Describe TACLANE.

Requirement.  Given the references, perform the following:

1.  Describe the purpose of the TACLANE
2.  Identify different TACLANE models

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.     TM 11-5810-422-13 (KG-175D)


3.10.5  COMPUTER AND NETWORK TRAINING  (CANT) STAGE

3.10.5.1  Purpose.  To provide core skills in computing and networking that will be used in the performance of assigned duties within the Marine Air Command and Control System (MACCS).

3.10.5.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.

CANT-2040     4.0     1095     B,R,M                                          E                L

    Goal.  Explain application, data, and host security.

    Requirement.  With the aid of reference, perform the following:

    1.  Explain the importance of application security.
    2.  Explain the appropriate procedures to establish host security.
    3.  Explain the importance of data security.

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  None

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.
    1.  CompTIA Approved Quality Content (CAQC) program reference material
    2.  Applicable User's Manuals for specific network devices.
    3.  Current industry-standard curriculum and references.

CANT-2041     2.0     1095     B,R,M                                                           L

    Goal.  Perform account management.

    Requirement.  With the aid of reference, perform the following:

    1.  Plan user accounts.
    2.  Create user accounts IAW naming convention.
    3.  Create groups IAW naming convention.
    4.  Set account permissions.
    5.  Manage user accounts.
    6.  Document as required.

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  None

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.

1. User manuals
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

CANT-2042    4.0     1095   B,R,M                             E             L

Goal.  Explain Network Security.

Requirement.  With the aid of references, perform the following:

1. Explain the methods of network access security.
2. Explain methods of user authentication.
3. Explain common threats, vulnerabilities, and mitigation techniques.
4. Describe the purpose of a basic firewall.
6. Categorize different types of network security devices and methods.
7. Describe the implementation of secure network administration principles.
8. Describe between network design elements and components.
9. Identify commonly used default network ports.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

CANT-2043    4.0     1095   B,R,M                             E             L

Goal.  Explain Network Operational Security.

Requirement.  With the aid of reference, perform the following:

1. Explain risk related concepts.
2. Explain appropriate risk mitigation strategies.
3. Explain appropriate incident response procedures.
4. Explain the importance of security related awareness and training.
5. Compare aspects of business continuity.
6. Explain the impact and proper use of environmental controls.
7. Explain the concepts of confidentiality, integrity and availability (CIA).

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2044        4.0        1095        B,R,M                                        E                        L

Goal.  Explain threats and vulnerabilities.

Requirement.  With the aid of reference, perform the following:

1.  Explain the types of malware.
2.  Explain types of attacks.
3.  Explain types of application attacks.
4.  Explain types of mitigation and deterrent techniques.
5.  Explain assessment tools and techniques to discover security threats and vulnerabilities.
6.  Within the realm of vulnerability assessments, explain the proper use of penetration testing versus vulnerability scanning.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2045        4.0        1095        B,R,M                                        E                        L

Goal.  Explain computer and network cryptography.

Requirement.  With the aid of reference, perform the following:

1.  Summarize general cryptography concepts.

2. Explain the appropriate cryptographic tools and products.
3. Explain the core concepts of public key infrastructure.
4. Explain the Implementation of PKI, certificate management and associated components.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

CANT-2046    4.0    1095    B,R,M                  E          L

Goal. Explain access control and identity management security measures

Requirement. With the aid of reference, perform the following:

1. Explain the function and purpose of authentication services.
2. Explain the fundamental concepts and best practices related to authentication, authorization and access control.
3. Explain the Implementation of appropriate security controls when performing account management.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

3.10.6 COLLATERAL DUTIES (CD) STAGE

3.10.6.1 Purpose. To provide core skills on the duties and responsibilities of each collateral duty within a maintenance section.

3.10.6.2  <u>General</u>

     <u>Prerequisite</u>.  NONE.

     <u>Admin Notes</u>.  NONE.

     <u>Crew Requirements</u>.  NONE.


CD-2060      1.0    *     B                                             L

     <u>Goal</u>.  Identify the Maintenance Calibrations Program.

     <u>Requirement</u>.  State the following:

    1.  Purpose of the billet
    2.  Chapters/pages within the references which are applicable to the program
    3.  Purpose of the FSMAO Checklist
      a.  Explain the purpose of each question within the Checklist
      b.  Identify the pages within the reference where more information can be found regarding the collateral duty

     <u>Performance Standard</u>.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

     <u>Instructor</u>.  BI

     <u>Prerequisite</u>.  2100

     <u>Ordnance</u>.  None

     <u>Range</u>.  None

     <u>External Syllabus Support</u>.  None

     <u>Reference</u>.
    1.  MCO P4790.2
    2.  UM 4000-125 GCSS-MC User's Manual
    3.  TM-4700-15/1H
    4.  Associated Desktop/Turnover
    5.  MMSOP
    6.  FSMAO Checklist
    7.  MCO 4400.160


CD-2061      2.0    *     B                                             L

     <u>Goal</u>.  Identify the Maintenance Modifications Program.

     <u>Requirement</u>.  State the following:

    1.  Purpose of the billet
    2.  Chapters/pages within the references which are applicable to the program
    3.  Purpose of the FSMAO Checklist
      a.  Explain the purpose of each question within the Checklist

   b.  Identify the pages within the reference where more information can be found regarding the collateral duty

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H
4.  Associated Desktop/Turnover
5.  MMSOP
6.  FSMAO Checklist
7.  MCO 4400.160


CD-2062        2.0      *        B                                                        L

Goal.  Manage the Tool Control Program.

Requirement.  State the following:

1.  Purpose of the billet
2.  Chapters/pages within the references which are applicable to the program
3.  Purpose of the FSMAO Checklist
    a.  Explain the purpose of each question within the Checklist
    b.  Identify the pages within the reference where more information can be found regarding the collateral duty

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H

4. Desktop/Turnover
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

CD-2063  2.0  *  B             L

Goal.  Identify the Maintenance Publications Library.

Requirement.  State the following:

1. Purpose of the billet
2. Chapters/pages within the references which are applicable to the program
3. Processes required IAW unit SOP

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

CD-2064  2.0  *  B             L

Goal.  Identify major Maintenance Safety Program elements.

Requirement.  Given the references, perform the following:

1. Define and identify the purpose of Lock-out/Tag-out.
2. Demonstrate lock-out/tag-out procedures.
3. Eliminate the effects of ESD on electronic components.
 a. Define ESD.
 b. Setup ESD workstation.
 c. Demonstrate proper use of ESD workstation during repair of ESD sensitive circuit.
 d. Demonstrate proper packaging and handling of ESD sensitive material.
4. Describe hazard prevention as it applies to:
 a. Electrical hazards.
 b. Eye hazards.
 c. Hearing hazards.

      d. RF hazards.
      e. Fire hazards.
   5. Identify HAZMAT procedures.
      a. Properly store and label HAZMAT materials.
      b. Demonstrate proper usage of Personal Protective Equipment (PPE).
      c. State the purpose of and locate and read safety board.
   6. List the sections of an MSDS.
      a. Chemical identity.
      b. Manufactures name and contact information.
      c. Hazardous ingredients/identity information.
      d. Physical/chemical characteristics.
      e. Fire and explosion hazard data.
      f. Reactivity data.
      g. Health hazard data.
      h. Precautions for safe handling and use.
      i. Control measures.
   7. State the purpose of the MSDS center.
   8. Locate the MSDS compliance center in the maintenance department.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 5100.29
2. MCO 4450.12
3. MCO 5100.8
4. OSHA standard 29 CFR 1910.147
5. Electro Discharge Mgmt (ESD) TM-9999-15/2
6. MCO P4790.2
7. UM 4000-125 GCSS-MC User's Manual
8. TM-4700-15/1H
9. Desktop/Turnover
10. MMSOP
11. FSMAO Checklist
12. MCO 4400.160

CD-2065      3.0   *     B                                     L

Goal. Identify the key elements of the Maintenance Embarkation Program.

Requirement. Given the references, perform the following:

1. State the purpose of the maintenance embarkation program.
2. State the purpose of the equipment density list (EDL).
3. List length, width, height, and weight of major end items.

4. Identify ground equipment transportation requirements.
5. Identify Heavy Equipment (HE) requirements needed for systems movement.

<u>Performance Standard</u>.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

<u>Instructor</u>.  BI

<u>Prerequisite</u>.  2100

<u>Ordnance</u>.  None

<u>Range</u>.  None

<u>External Syllabus Support</u>.  None

<u>Reference</u>.
1. MCRP 4-11.3 Unit Embarkation Handbook
2. MCO P4790.2
3. Technical Manuals
4. Maintenance Embarkation Program Desktop
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

CD-2066          1.0        *         B                                                             L

<u>Goal</u>.  Identify the equipment record jacket.

<u>Requirement</u>.  Given the references and a record jacket, perform the following:

1. State the purpose of a record jacket.
2. State the minimum content requirements for an equipment record jacket.
3. State the destruction instructions for each document within the record jacket.
4. State the local policy for disposition of inactive record jackets.
5. Inspect the record jacket content for completeness.

<u>Performance Standard</u>.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

<u>Instructor</u>.  BI

<u>Prerequisite</u>.  2100

<u>Ordnance</u>.  None

<u>Range</u>.  None

<u>External Syllabus Support</u>.  None

<u>Reference</u>.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover

5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

CD-2067        2.0      *      B,R                                                    L

Goal. Identify Quality Control Procedures.

Requirement. Given the references and equipment records, perform the following:

1. Identify maintenance QC procedures.
2. List all the QC areas within your section.
3. State the frequency of the QC checks for each area.
4. Conduct a QC inspection on a selected piece of equipment:
    a. Ensure equipment is being maintained to equipment standards.
    b. Ensure quality controls are being adhered to.
    c. Ensure inspection standards, checklists or templates being used to inspect completed maintenance actions.
    d. Ensure equipment specifications are being recorded within tolerance levels IAW TM.
    e. Verify the repair process is properly implemented by ensuring that:
        (1) Proper tools were used.
        (2) ESD procedures were used.
        (3) Safety warnings were adhered to.
        (4) Necessary defective parts were replaced.
        (5) Correct software was used, as applicable.
        (6) Proper GCSS entries are annotated on the Service Request throughout the Maintenance Cycle.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

CD-2068        2.0      *      B                                                      L

Goal. Identify the Maintenance Training program.

Requirement. Given the references, perform the following:

1. Describe the purpose of the maintenance training program.
2. List requirements for maintenance training IAW MMSOP
3. Explain the purpose of the Aviation T&R program.
4. Explain how training is tracked
a. MSHARP
b. MACCS Performance Record (MPR)

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
6. NAVMC 3500.14C
7. T&R Manuals
8. FSMAO Checklist
9. MCO 4400.160

3.10.7  MAINTENANCE MANAGEMENT (MMGT) STAGE

3.10.7.1  Purpose.  To provide the core skills necessary to manage maintenance activities and administrative resonsibilities within the maintenance section.

3.10.7.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.

MMGT-2100      40        *        B                                                    G

Goal.  Complete Maintenance Management Program indoctrination training

Requirement.  Complete the following maintenance management program Indoctrination training:

1. Describe the eight functional areas of maintenance management
2. Define Desk-top procedure
3. Define Turn-Over folder
4. Identify Collateral Duties Required IAW MMSOP

5.  Identify the objectives of maintenance management program
6.  Identify maintenance management program references.
   a.  MMSOP
   b.  UM 4000-125 GCSS User's Manual
   c.  MCO P4790.2
   d.  MCO 4400.150
   e.  MCO P4400.16 UMMIPS
7.  Identify the responsibilities of maintenance management personnel.
   a.  Commanding Officer
   b. Maintenance Management Officer
   c. Maintenance Officer
   d. Supply Officer
   e. Maintenance Chief
   f.  Supply Clerks
   g.  Maintenance Management Office Clerks
   h. Maintenance Marines

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MMSOP
2.  MCO P4790.2
3.  MCO 4400.150
4.  MCO 4400.16 UMMIPS
5.  UM 4000-125 GCSS-MC User's Manual
6.  TM-4700-15/1H
8.  Desktop/Turnover
9.  FSMAO Checklist
7.  MCO 4400.160


MMGT-2101      2.0      *      B                                                    L

Goal.  Conduct an SL-3 inventory.

Requirement.  Given the references and a piece of equipment with its record jacket containing an SL-3 extract, perform the following:

1.  Validate inventory reference in SL 1-2.
2.  Verify UURI authorization.
3.  Identify and document on-hand, missing, or unserviceable components.
4.  Document completed inventory findings in the record jacket.
5.  Initiate supply action to replace missing and/or unserviceable components.
6.  Obtain a "supervised by" signature.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  MCO P4790.2
3.  Applicable equipment SL-3 or TM


MMGT-2102    1.0    *    B                                                      L

Goal.  Initiate a service request.

Requirement.  Given a piece of equipment requiring a service request, NAVMC 1018, and a computer with GCSS access, perform the following:

1.  Fill out a NAVMC 1018 Inspection/Repair Tag (IRT).
2.  Login to GCSS.
3.  Open a new service request.
4.  Forward service request to the next level IAW SOP.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Appropriate GCSS access

Reference.
1.  TM 4700-15/1H
2.  MCO P4790.2
3.  MCBUL 3000
4.  MCO 4400.16
5.  Unit MMSOP
6.  UM 4000-125 GCSS-MC User's Manual


MMGT-2103    1.0    *    B                                                      L

Goal.  Create a Preventive Maintenance Checks and Services (PMCS) schedule.

Requirement.  Given an end item and applicable references, perform the following:

1.  State the purpose of PMCS.
2.  Identify the PM frequency.
3.  Identify PM procedures.
4. Create a PMCS schedule.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 4700-15/1H
2.  MCO P4790.2
3.  Technical Manuals
4.  UM 4400-125 GCSS-MC User's Manual

MMGT-2104      2.0      *      B                                                    L

Goal.  Submit a Product Quality Deficiency Report (PQDR).

Requirement.  Given the reference, equipment or a scenario:

1.  State the criteria under which the PQDR should be submitted.
2.  Complete the PQDR.
3.  Explain the squadron's internal process for submitting a PQDR.
4.  Identify the procedure to follow up with the PQDR.
5.  Discuss external process flow of the PQDR.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  Unit MMSOP

3.  MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4.  SECNAVINST 4855.5, Product Quality Deficiency Report Program

MMGT-2105     2.0     *     B                                                           L

Goal.  Identify the SECREP management process.

Requirement.  Given the references, perform the following:

1.  Define the purpose of the SECREP management process.
2.  Define the purpose of Critical Low Density SECREP exchange process.
3.  Identify the key components of the SECREP exchange process.
4.  Identify the key documentation within each component of the SECREP exchange process.
5.  Identify the SECREP management re-computation process.
6.  Identify Low Density SECREP assets.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  MCO 4400.150
3.  FEDLOG/WEBFLIS
4.  UM 4000-125 GCSS-MC User's Manual

MMGT-2106     4.0     *     B                                                           L

Goal.  Explain equipment disposition procedures.

Requirement.  Given the reference and a scenario, conduct the following:

1.  State the purpose of equipment disposition.
2.  State the criteria under which an item should be processed for disposition.
3.  State the information required to submit a disposition request.
4.  State the submission procedures for a disposition request.
5.  State the method to follow up on disposition submissions.
    a.  GCSS-MC
    b.  Weekly Supply reconciliation.
6.  Explain disposition instruction.
4.  Ensure equipment is removed from the CMR as applicable.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

     Instructor.  BI

     Prerequisite.  2101, 2102

     Ordnance.  None

     Range.  None

     External Syllabus Support.  None

     Reference.
     1.  Disposition Plan
     2.  ULSS
     3.  Equipment SL-3
     4.  MCO P4400.82
     5.  UM 4000-125 GCSS-MC User's Manual
     6.  MMSOP
     7.  MCO P4790.2


MMGT-2107    4.0     *       B,R                                         L

     Goal.  Reconcile Global Combat Support System (GCSS) reports.

     Requirement.  Given the reports listed in item 1 below:

    1.  Identify the purpose of:
      a.  Maintenance Production Report (MPR).
      b.  Equipment Status Report (ESR).
      c.  Preventative Maintenance Report.
      d.  Calibrations Report.
      e.  Modification Instruction report.
      f. Maintenance Management Report (MMR).
      g.  Due and status file (DASF).
      h.  Service Request (SR).
        (1)  Tasks.
        (2)  Notes.
        (3)  Parts Requirements.
      i.  Sub-Inventory.
        (1)  Layette.
        (2)  Stage.
        (3)  Demand Supported Items (DSI).
      j.  Oracle Installed Base.
        (1)  Parent/Child Relationships.
    2.  Identify the type of information contained in each of the forms listed above.
    3.  Identify the status of a parts requisition.
    4.  Identify proper use of UMMIPS priorities.
    5.  State item requisition priorities.
    6.  Reconcile all items listed above and list all errors found in each form.
    7.  Explain how to maintain a layette bin.

     Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

     Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. MCBUL 3000
3. MCO P4400.16
4. DLA Handbook
5. Unit MMSOP
6. UM 4400-125 GCSS-MC User's Manual

MMGT-2108     1.0     *     B                                                L

Goal.  Verify inventory control procedures are implemented.

Requirement.  Given an equipment record and SL-3:

1. Validate inventory results.
2. Validate parts requisition details.
3. Ensure service request is created within GCSS-MC.
4. Ensure parts requirement for unserviceable items are created within GCSS-MC.
5. Ensure inventory records are updated to reflect current status:
   a. Item on-hand availability status.
   b. Parts requisition status.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4400.150
2. MCO P4790.2
3. UM 4000-125 GCSS-MC User's Manual

MMGT-2109     2.0     *     B                                                L

Goal.  Draft a Table of organization and equipment (TO&E) Change Request (TOECR).

Requirement.  Given a scenario and applicable references:

1. Pull TO&E via the Total Force Structure Management System (TFSMS).
2. Identify the information contained in the Table of Organization and Equipment (T/O&E).
3. Justify the requirement for change.
4. Identify compensation for T/O changes when possible.
5. Identify requirements for mirroring.
6. Complete TOECR.
7. Provide a copy of the TOECR to the instructor for review and validation.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  Trainee must have a TFSMS account prior to training in this event.

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 5311.1
2. Unit TO&E

MMGT-2110      2.0      *      B,R                                                                L

Goal.  Identify the Marine Corps Urgent Needs Process (MCUNP)

Requirement.  Given the references and a capability gap, complete the MCUNP form.
1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Complete an Urgent UNS form.
5. Complete a deliberate UNS form.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. NAVMC 11475
2. MCO 3900.17

MMGT-2111      2.0      *      B                                                                  L

Goal. Induct new equipment into service.

Requirement. Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and validate the induction of new equipment into service.
1. Review the Users Logistics Support Summary (ULSS) or Material Fielding Plan (MFP).
2. Validate new equipment is properly placed into service.
   a. Ensure record jacket was created with proper documentation IAW the reference.
   b. Ensure initial SL-3 Inventory is performed.
   c. Ensure an initial LTI was performed.
   d. Ensure induction of new equipment into calibration cycle as required.
   e. Ensure equipment is accounted for and controlled IAW classification.
3. Verify appropriate entries to install base are made
4. Ensure equipment is added to the CMR as applicable.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Fielding Plan
2. ULSS
3. Equipment SL-3
4. MCO P4400.82
5. UM 4000-125 GCSS-MC User's Manual
6. MMSOP
7. MCO P4790.2


MMGT-2112     2.0     *     B                                                      L

Goal. Identify the types of funds.

Requirement. Given the references, identify the governing regulations, to include the purpose and time for the following:

1. O&M
   a. Marine Corps
   b. Navy
2. PMC
3. RDT&E
4. MILCON

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

      Instructor.  BI

      Prerequisite.  None

      Ordnance.  None

      Range.  None

      External Syllabus Support.  None

      Reference.
      1.   DoD Financial Management Regulation [DoD 7000.14-R (FMR) Volume 2A, Chapter 1]

3.10.8  DEPLOYMENT (DEPL) STAGE

3.10.8.1  Purpose.  To provide the core skills required to deploy Marine Air Command and Control Systems (MACCS) equipment, to include planning, crew management, system configuration management, and setup procedures.

3.10.8.2  General

      Prerequisite.  NONE.

      Admin Notes.  NONE.

      Crew Requirements.  NONE.

DEPL-2130       2.0       *       B,R                                                                      L

      Goal.  Write a packing list.

      Requirement.  Given the references, perform the following:

      1. Define the purpose of a packing list.
      2. Describe essential packing list contents.
      3. Complete a packing list.

      Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

      Instructor.  BI

      Prerequisite.  None

      Ordnance.  None

      Range.  None

      External Syllabus Support.  None

      Reference.
      1.  Unit SOP

DEPL-2131     2.0     *     B                                    L

   Goal.  Extract key information from communication planning documents.

   Requirement.  For each of the following documents, Identify the purpose of and the location of key information contained within:

   1.  Guard Chart.
   2.  Communication Electronic Operating Instruction (CEOI).
   3.  Operations Order.
   4.  Annex K of the Operations Order.
   5.  Annex U of the Operations Order.
   6.  Site Diagram.
   7.  Operational Tasking Data Link (OPTASKLINK).
   8.  Identify who is responsible for creating and disseminating the OPTASKLINK.
   9.  EKMS/KMI Callout.
   10.  Satellite Access Authorization (SAA)

   Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

   Instructor.  BI

   Prerequisite.  None

   Ordnance.  None

   Range.  None

   External Syllabus Support.  None

   Reference.
   1.  MCWP 5-1
   2.  MCWP 3-40.3
   3.  ACEOI
   4.  OPTASKLINK
   5.  EKMS/KMI Callout
   6.  Operational Order
   7.  SAA
   8.  Guard Chart


DEPL-2132     4.0     *     B                                    L

   Goal.  Determine supply support requirements.

   Requirement.  Given the reference and a 30 day operational scenario, perform the following:

   1.  Determine supply needs with consideration of the following:
     a.  Location.
     b.  Equipment.
     c.  Daily operations.
     d.  Climate.
   2.  Identify SECREP requirements and deficiencies.
   3.  Identify bill of material (BOM) requirements.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Technical Manuals
2. Operational Order
3. CMR

DEPL-2133        4.0        *        B,R                                                    L

Goal. Identify power requirements.

Requirement. Given a scenario and references, perform the following:

1. List all PEIs required to support the scenario.
2. Determine power requirements for each PEI.
3. Determine power requirements for all ancilliary and support equipment.
4. Determine total power requirements.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2022

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Technical Manuals

DEPL-2134        1.0        *        B                                                    L

Goal. Fill out a Logistics Support Request (LSR).

Requirement. Given a scenario, fill out a request for:

1. Transportation.
2. Material Handling Equipment (MHE).

3. Supplies.
4. Personnel.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Unit SOP


DEPL-2135        8.0        1095      B,R,M                                                                L

Goal. Conduct a site survey.

Requirement. Given a scenario, applicable references, a TO/E and operational tasking, determine an appropriate site for system emplacement by performing the following:

1. Use planning tools to determine terrain masking and line of sight connectivity.
2. Determine a primary and secondary site location.
3. Identify obstructions and hazards.
4. Determine tactical orientation and equipment emplacement.
   a. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Fuels (HERF) regulations.
   b. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Ordinance (HERO) regulations.
   c. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Personnel (HERP) regulations.
   d. Ensure emitters are emplaced to support working area.
5. Identify the placement for vehicles.
6. Identify the placement for antennas.
7. Determine communications obstacles.
8. Determine system grounding requirements.
9. Identify power and fuel requirements.
10. Determine protection from the elements.
11. Determine Terrain Masking.
12. Determine operational footprint.
13. Design a site layout and submit to the instructor.
14. Develop a brief that addresses all event requirement items.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2022, 2133

Ordnance. None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Operational Order
3.  CMR
4.  MCWP 3-25.4
5.  MCWP 5-1
6.  MCO 5104.2
7.  MCO 5104.3B


DEPL-2136     4.0    *     B                                         L

Goal.  Write an Equipment Density List (EDL).

Requirement.  Given the references and a 30 day scenario, perform the following:

1.  Define the purpose of an EDL.
2.  Describe essential EDL contents.
3.  Complete an EDL.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 4-11.3 Unit Embarkation Handbook
2.  Unit SOP
3.  Technical Manuals


DEPL-2137     8.0    *     B                                         L

Goal.  Develop an embarkation plan.

Requirement.  Given the references and a 30 day operational scenario, perform the following:

1.  State the purpose of an embarkation plan.
2.  Produce an equipment density list (EDL).
3.  Produce Logistics documents as required.
4.  Identify heavy equipment required to move EDL items.
5.  Identify the modes of transportation required to move EDL items.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the

trainee are acceptable.

Instructor.  BI

Prerequisite.  2134, 2136

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Unit SOP
3.  MCRP 4-11.3G Unit Embarkation Handbook


DEPL-2138          8.0       *          B                                                                    L

Goal.  Complete a Bill of Material (BOM) request.

Requirement.  Given TEEP documents and references, perform the following:

1. Collect requests from maintenance sections.
2. Consolidate required materials into a BOM request.
3. Verify the request is sufficient to support 24 hour operations and for the length of the exercise, validate the content to ensure that it meets sustained operational requirement.
4.  Submit a BOM request to the Maintenance Officer

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2132

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  Operational Order
3.   Technical Manuals
4.  Unit SOP


DEPL-2139          3.0       *          B                                                                    L

Goal.  Describe common agency doctrinal nets.

Requirement.  Given a list of doctrinal net names in acronym format and references, perform the following:

1.  Define each net acronym.
2.  Describe function for each net.
3.  State the frequency spectrum doctrinally used for each net.
4.  Identify agencies required to guard each net.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 3-40.3


DEPL-2140        2.0        1095      B,R,M                                                             L

Goal.  Identify spectrum management procedures.

Requirement.  Given the references and a scenario with operational requirements, perform the following:

1.  Identify frequency requirements.
    a.  Identify submission timelines.
    b.  Identify data elements (-Freq, Location, Power, Dates).
2.  Identify Satellite Access requirements.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 3-40.3B
2.  MCO 2400.2
3.  MCWP 3-40.3


DEPL-2141        8.0        *        B                                                                  L

Goal.  Identify communication service requirements.

Requirement. Given the references and a scenario with operational requirements, perform the following:

1. Identify submission timelines.
2. Identify data elements.
   a.  Internet protocol addresses.
   b.  Location, user accounts.
   c.  Dates.
   d.  Phone lines.
   e.  C2 application support.
     (1) Identify mission specific software requirements
     (2) Verify software version compatability (JAVA, Browsers, etc.)
   f.  Data network services (NIPR/SIPR/Theater specific).
   g.  Firewall exemptions.
   h.  Provide Authority to Connect (ATC)/Authority to Operate (ATO) documention for all required systems.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 3-40.3B Radio Operator's Handbook
2. Operational Order
3. MCWP 3-40.3
4. Unit SOP


DEPL-2142    2.0    \*     B                                                             L

Goal. Identify crew requirements and write a crew schedule.

Requirement. Given operational tasking, references, section roster, and MSHARP crew report, perform the following:

1. Determine the duration of operations.
2. Determine total crews required to support the mission.
3. Determine the crew composition/requirements.
4. Write the crew schedule.
5. Submit the crew schedule to the instructor.
6. Describe the process to publish crew schedule once validated.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. T&R Manual
2. MCWP 3-25.4


DEPL-2143       4.0       1095       B,R,M                                                                L

Goal.  Develop data recovery management plan.

Requirement.  With the aid of reference, develop a data management plan for organic systems including:

1. Purpose for data backup
2. Backup frequency
3. Scheduling/Deconfliction
4. Backup storage locations
5. Levels of backup
6. Backup disposition
7. Document as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. User manuals
2. Commercial resources

3.10.9  AVIATION COMMUNICATIONS (AVCOMM) STAGE

3.10.9.1  Purpose.  To provide the core skills necessary to safely embark, setup, operate, maintain, and integrate organic communication system and
other communication assets within the Marine Air Command and Control System
(MACCS).

3.10.9.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.

AVCOMM-2200 2.0        *        B                                                          L

Goal.  Erect organic antennas.

Requirement.  Perform the following:

1.  Erect ground antennas.
2.  Erect antennas mounted to vehicles/shelters.
3.  Erect antennas on antenna masts.
4.  Erect SATCOM antennas
    a.  Align the satellite antenna for correct azimuth.
    b.  Align the satellite antenna for correct elevation.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/15050A-OD/2 CAC2S System User Manual
2.  TM 12041A/15050A-OD/1 CAC2S System Maintenance

AVCOMM-2201 1.0        *        B,R                                        AN/VRC-103      L

Goal.  Configure the AN/VRC-103

Requirement.  Given an AN/VRC-103 and a computer loaded with the Radio Programming Application, perform the following:

1.  Identify the characteristics of the AN/VRC-103.
2.  Identify the components of the AN/VRC-103.
3.  Program the AN/VRC-103.
4.  Program the AN/VRC-103 using Radio Programming Application  (RPA).
5.  Conduct a plain text communications check.
6.  Conduct an encrypted communications check.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2001

Ordnance.  None

Range. None

External Syllabus Support. None

Reference.
1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
2. Harris Premier Account
3. RF-5850-PS001 Operator's Manual


AVCOMM-2202 1.0         *         B,R                                          AN/VRC-104      L

Goal. Configure the AN/VRC-104

Requirement. Given an AN/VRC-104 and a computer loaded with the Radio Programming Application, perform the following:

1. Identify the characteristics of the AN/VRC-104.
2. Identify the components of the AN/VRC-104.
3. Program the AN/VRC-104.
4. Program the AN/VRC-104 using Radio Programming Application  (RPA).
5. Conduct a plain text communications check.
6. Conduct an encrypted communications check.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2001

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio
2. Harris Premier Account


AVCOMM-2203 3.0         *         B,R                                          AN/VRC-103      L

Goal. Configure the AN/VRC-103 for SATCOM operation.

Requirement. Given the radios, references, satellite access authorization letter, and common fill device with keying material, perform the following:

1. Configure 5 KHz NB (dedicated) channel.
2. Configure 25 KHz WB (dedicated) channel.
3. Configure DAMA Channel.
4. Configure Integrated Waveform (IW).
5. Conduct a radio check.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2001

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
2.  Harris Premier Account
3.  RF-5850-PS001 Operator's Manual


AVCOMM-2204 2 \* B,R     AN/MRQ-13, Stand-alone radio
  L

Goal.  Interface an external radio with the CS.

Requirement.  Given a CS and a stand-alone radio set, interface an external radio and conduct a communications check.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/15050A-OD/2 CAC2S System User Manual
2.  TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual


AVCOMM-2205 4.0 \* B,R     (2) AN/MRQ-13  L

Goal.  Configure Distributed Scalable Access Network (DSAN) subsystem for a multiple vehicle system

Requirement.  Using doctrinal radio nets, complete the following:

1.  Build Communications templates
2.  Configure Digital Switching Units (DSUs)
3.  Configure voice network devices
4.  Configure LongArm
5.  Assign IP addresses to each radio

6. Push communications template to the user
7. Conduct radio check from UID/VSOL

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual


AVCOMM-2206 2.0        *        B,R                                                        AN/VRC-103      L

Goal. Conduct maintenance on the AN/VRC-103

Requirement. Given the references, tools, TMDE, and an AN/VRC-103 with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Perform PMCS
2. Perform Corrective Maintenance to the LRU
3. Verify correct operation.
4. Document maintenance actions.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2001, 2201

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
2. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
3. Harris Premier Account
4. RF-5850-PS001 Operator's Manual


AVCOMM-2207 2.0        *        B,R                                                        AN/VRC-104      L

Goal. Conduct maintenance on the AN/VRC-104

Requirement. Given the references, tools, TMDE, and an AN/VRC-104 with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Perform PMCS
2. Perform Corrective Maintenance to the LRU
3. Verify correct operation.
4. Document maintenance actions.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2001, 2202

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
2. Harris Premier Account
1. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio


AVCOMM-2208 4.0　　　*　　　B,R　　　　　　　　　　　　　　　　AN/MRQ-13　　L

Goal. Maintain Power Distribution subsystem in the CS

Requirement. Given the references, tools, TMDE, and an power distribution subsystem with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Perform PMCS
2. Perform Corrective Maintenance to the LRU
3. Verify correct operation.
4. Document maintenance actions.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual

AVCOMM-2209 4.0    1095    B,R,M                                          L

Goal.  Demonstrate field expedient antenna techniques.

Requirement.  Given all required materials, construct field expedient antennas using wave propagation techniques by performing the following:

1. Determine frequency.
2. Determine distance and direction of distant station.
3. Determine antenna type and configuration.
4. Erect antenna using recommended construction techniques.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCRP 3-40.3B Radio Operator's Handbook
2. MCRP 3-40.3C Antenna Handbook
3. MCI 2515H Antenna Construction and Propagation of Radio Waves
4. USMC Field Antenna Handbook APK2.5

AVCOMM-2210 2.0    1095    B,R,M                         AN/VRC-103, AN/PSN-13
          L

Goal.  Configure the AN/VRC-103 radio for enhanced operation.

Requirement.  Given the references, an AN/VRC-103, and common fill device with keying material, a computer loaded with the Radio Programming Application (RPA), perform the following:

1. Configure for frequency hopping.
2. Configure for HAVEQUICK II.
3. Set system time from GPS

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2001, 2021

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
2.  TM 2010-10/A Principle Technical Characteristics of U.S. Marine Corps HAVEQUICK Employment
3.  Harris Premier Account
4.  RF-5850-PS001 Operator's Manual

AVCOMM-2211 1.0        1095        B,R,M                                                        AN/VRC-104        L

Goal.  Configure AN/VRC-104 radio for Automatic Link Establishment (ALE).

Requirement.  Given an AN/VRC-104, and common fill device with keying material, a computer loaded with the Radio Programming Application (RPA), configure ALE.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 10822A-OR AN/PRC-150C Advanced Tactical HF Radio
2.  Harris Premier Account

AVCOMM-2212 1.0        1095        B,R,M                                                        AN/PRC-153        L

Goal.  Conduct maintenance on the AN/PRC-153

Requirement.  Given the references, tools, TMDE, and an AN/PRC-153 with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1.  Perform PMCS
2.  Perform Corrective Maintenance to the LRU
3.  Verify correct operation.
4.  Document maintenance actions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Applicable Motorola Technical Manual

AVCOMM-2213 2.0        1095     B,R,M                                            AN/VRC-110     L

Goal.  Conduct maintenance on the AN/VRC-110

Requirement.  Given the references, tools, TMDE, and an AN/VRC-110 with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1.  Perform PMCS
2.  Perform Corrective Maintenance to the LRU
3.  Verify correct operation.
4.  Document maintenance actions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Harris Premier Account

AVCOMM-2215 1.0        1095     B,R,M                                            AN/PRC-148       L

Goal.  Conduct maintenance on the AN/PRC-148

Requirement.  Given the references, tools, TMDE, and an AN/PRC-148 with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1.  Perform PMCS
2.  Perform Corrective Maintenance to the LRU
3.  Verify correct operation.
4.  Document maintenance actions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Applicable Thales Technical Manual
2.  FM 3-55.93 Field Operator Manual


AVCOMM-2216 2.0        1095      B,R,M                                                    AN/MRQ-13      L

Goal.  Maintain the Distributed Scalable Access Network (DSAN) within the CS.

Requirement.  Given a CS, applicable references, materials, and equipment complete the following:

1.  Describe signal flow within the DSAN
    a.  Digital Switching Unit(DSU)
    b.  Tent Switch
    c.  Network Devices
    d.  Radios
2.  Describe DSU theory of operation
3.  Troubleshoot DSAN Software
4.  Troubleshoot Network connectivity
5.  Re-image workstations
6.  Re-image the DSU/CF Card
7.  Re-install switch IOS

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/15050A-OD/2 CAC2S System User Manual
2.  TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual


AVCOMM-2217 4.0        *          B,R                                                      AN/MRQ-13      L

Goal.  Conduct maintenance on the CS.

Requirement.  Given the references, TMDE, and tools, perform the following:

1.  Perform PMCS

2. Perform Corrective Maintenance to the LRU
3. Verify correct operation.
4. Document maintenance actions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual
3. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1C Radio Set
4. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio

3.10.10  TACTICAL DATA LINK(SETUP) STAGE

3.10.10.1  Purpose.  These events will instruct MACCS agency watch standers on Tactical Data Links.   To provide the core Tactical Data Link (TDL) skills necessary for operations, maintenance, and management to support mission objectives using current tactical data systems and standardized TDLs.

3.10.10.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.

TDL-2800         10        1095      B,R,M                                                           G

Goal.  Identify the purpose of documents that enable Tactical Data Link (TDL) operations.

Requirement.  Given the documents below, identify their purpose:

1. Guard Chart.
2. Communication Electronic Operating Instruction (CEOI).
3. Operations Order Annex K.
4. Operations Order Annex U.
5. Link 16 Network Description Document.
6. Communications Security (COMSEC) Callout.
7. Operational Tasking Data Link (OPTASK LINK).
8. Satellite Access Authorization (SAA).
9. Joint Multi-TDL Operating Procedures (JMTOP).

Performance Standard.  With the aid of reference, state (verbally or written) the required items. Minor

errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 5-1, Marine Corps Planning Process
2.  MCWP 3-40.3, MAGTF Communications Systems
3.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)


TDL-2801        10        1095     B,R,M                                                                 G

Goal.  Identify TACC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.4, Tactical Air Command Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2802        10        1095     B,R,M                                                                 G

Goal.  Identify TAOC and EW/C voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.

2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.7, Tactical Air Operations Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2803          10        1095      B,R,M                                                                            G

Goal.  Identify DASC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.5, Direct Air Support Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2805          10        1095      B,R,M                                                                            G

Goal.  Identify LAAD voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.10, Low Altitude Air Defense Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2806          10          1095       B,R,M                                                                              G

Goal.  Identify MATC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.8, Marine Air Traffic Control Detachment Handbook

3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5. Unit T/O and T/E

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TDL-2808        10      0       B                                              G

Goal.  Describe the Joint Data Network.

Requirement.  1. Define the Joint Data Network (JDN).
2. State the responsibilities of the Joint Data Network Operations Officer (JDNO).
3. State the purpose of the Global Command and Control System (GCCS) Family of Systems (FoS).
4. Define Common Operational Picture (COP).
5. Define Common Tactical Picture (CTP).
6. Define Tactical Picture.
7. State the components of the CTP.
8. Describe track management.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 3115.01: Volume 1, Joint Data Network Operations
2. CJCSM 3115.02: Volume 2, Common Tactical Picture Data Management
3. CJCSI 3115.01, CTP Reporting Requirements
4. CJCSI 3151.01B, GCCS COP Reporting Requirements

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TDL-2809        20      1095    B,R,M                                          G

Goal.  Describe the Multi-Tactical Data Link (TDL) Interface.

Requirement.  Perform the following:

1. State the concept and information exchange of the Multi-TDL Interface.
2. State the technical functions of the Multi-TDL Interface.
3. List the three elements of the Multi-TDL Interface
4. Define the Basic Interface and list its three data links.
5. Identify the characteristics of Link 11
6. Identify the characteristics of Link 11B
7. Identify the characteristics of Link 16
8. Define the Extended Interface.
9. Identify the purpose of the Joint Range Extension Application Protocol (JREAP).
10. Define the following interface voice coordination nets:
    a. Air Defense Command and Control Net (ADCCN)
    b. Engagement Control Net (ECN)

   c. Datalink Coordination Net (DCN)
   d. Track Supervision Net (TSN)
   e. Voice Product Net (VPN)
11. Describe the delegation of responsibilities for the conduct of the Multi-TDL operations at the Joint Task Force (JTF) level and below.
12. State the two Interface Control Officer (ICO) execution functions.
13. State the responsibilities of the Link 16 Manager.
14. State the responsibilities of the Link 11/11B Manager.
15. State the responsibilities of the Track Data Coordinator (TDC).
16. List the minimum requirements for Services that operate the Multi-TDL Interface.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard

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TDL-2826      10     0     B                                        G

Goal. State the characteristics of Cooperative Engagement Capability (CEC)

Requirement. Given the references:

1. State the purpose of CEC.
2. State the characteristics of the CEC network.
3. Identify the Navy platforms capable of participating in the CEC network.
4. State the Marine Corps equipment required to interface with CEC.

Performance Standard. Pass an exam.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TACMEMO 3-01.3-12 CEC Tactical Employment Guide, Feb 2012

2. USN Capabilities and Limitations website http://cnl.phdnswc.navy.smil.mil/
3. Navy CEC Fact Sheet
4. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

3.11  MISSION SKILL TRAINING (3000)

3.11.1  Purpose.  To provide the requisite advanced skills and working knowledge to employ the MACCS and ancillary equipment in order to accomplish the Marine Air Support Squadron missions.

3.11.2  General.

3.11.2.1  Prerequisite.

3.11.2.2  Admin Notes.

       (1) Training in this phase does not preclude simultaneous training in Core Skill and Core Plus phases.

       (2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

       (3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable.  Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event.  Crew member assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual properly demonstrating the event performance standard.

       (4) Academic Training.  Academic training will be conducted prior to and concurrently with required events.  An academic training event, once completed, can be credited as a prerequisite for follow-on training events.

       (5) Refresher Training.  Refresher training is required once a individual has been absent from a technician billet for 36 months or longer.  Upon return, the individual will complete R-coded events in the Attain table; else the technician will maintain proficiency by completing the R-coded events in the Maintain table.

3.11.2.3  Stages.  The following stages are included in the Mission Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 3.11.3 | COMPUTER AND NETWORK TRAINING (CANT) |
| 3.11.4 | MAINTENANCE MANAGEMENT (MMGT) |
| 3.11.5 | DEPLOYMENT (DEPL) |
| 3.11.6 | AVIATION COMMUNICATIONS (AVCOMMS) |

3.11.3  COMPUTER AND NETWORK TRAINING (CANT) STAGE

3.11.3.1  Purpose.  To provide mission skills in computing and networking that will be used in the performance of assigned duties within the Marine Air Command and Control System (MACCS).

3.11.3.2  General

     Prerequisite.  NONE

     Admin Notes. NONE

     Crew Requirements. NONE

CANT-3000        8        1095        B,R,M                                                          L

    Goal.  Plan a Local Area Network

    Requirement.  Given an operational scenario using TE assets:

    1.  Identify information technology assets required
       a.  Number of Clients/Workstations at each geographic location
       b.  Number of Servers at each geographic location
       c.  Location of proxy server
    2.  Identify asset locations
    3.  Identify sub-netting
    4.  Verify routes
    5.  Record network configuration
    6.  Build detailed requirements to provide service provider
    7.  Plan quality of service in accordance with device priority
    8.  VLAN management

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  SI

    Prerequisite.  2040, 2042, 2043, 2044, 2045, 2046

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.
    1.  Site diagram
    2.  MCWP 3-40.3
    3.  Technical Manuals


CANT-3001        4.0        1095        B,R,M                                                          L

    Goal.  Administer data system host security measures.

    Requirement.  Given a configured network, demonstrate the following:

    1.  Install current Anti-virus definitions and service packs.
    2.  Configure firewalls.
    3.  Troubleshoot system faults.
    4.  Initiate corrective actions as required.

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  SI

    Prerequisite.  2040, 2042, 2043, 2044, 2045, 2046

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

CANT-3002      4.0      1095      B,R,M                                                    L

Goal.  Perform network management.

Requirement.  Given a LAN, references, and required equipment, perform the following:

1. Monitor the LAN for connectivity.
2. Assist with troubleshooting connectivity issues with external agencies.
3. Log Files Check.
4. Network Time Check.
5. Trouble Shoot Network error(s).
6. Explain the purpose of configuration management documentation.
7. Explain different methods and rationales for network performance optimization.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2040, 2042, 2043, 2044, 2045, 2046

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

CANT-3003      4.0      1095      B,R,M                                                    L

Goal.  Design network architecture.

Requirement.  Given an operational scenario and required network information, draw a visual representation of the network consisting of the following:

1. Location of cells and users.
2.  Internet Protocol (IP) addresses, subnet, and netmask.
3. Notation of domain.

4. Computer hostnames.
5. Placement of switches/routers.
6. Placement of Principle End Items (PEIs).
7. Security measures.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2040, 2042, 2043, 2044, 2045, 2046

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

3.11.4  MAINTENANCE MANAGEMENT (MMGT) STAGE

3.11.4.1  Purpose.  To provide the mission skills necessary to manage maintenance activities and administrative resonsibilities within the maintenance section.

3.11.4.2  General

Prerequisite.  NONE

Admin Notes.  NONE

Crew Requirements.  NONE

MMGT-3020      6.0      1095      B,R,M                                                        L

Goal.  Ensure the corrective maintenance repair process is being conducted.

Requirement.  Ensure the timely performance of all corrective maintenance actions per the references.
1. Verify the induction process:
    a. Confirm SL-3 accountability.
    b. Ensure visual inspection occurs.
    c. Verify record jacket.
    d. Verify proper organizational PM.
2. Ensure correctness of Service Request (SR) and NAVMC 1018.
3. Determine availability of resources.
4. Ensure proper troubleshooting of faulty item.
5. Ensure repair parts are ordered and correctness of SR.
6. Ensure faulty item is repaired to code A status.
7. Ensure safety measures are adhered to during repair process.
8. Conduct quality control procedures:
    a. Review quality control procedures.

    b. Verify quality control inspectors based on individual qualifications on equipment are assigned in writing.

9.  Verification of MI and TI.

10.  Verify proper closeout of SR.

11.  Ensure equipment record jacket is updated.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2100, 2101, 2102, 2103, 2104, 2105, 2107, 2108

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  TM-4700-15/1H
3.  MCO 4400.16
4.  MCBUL 3000
5.  Associated Equipment TM
6.  UM 4000-125 GCSS-MC User's Manual
7.  MCO 4400.150
8.  MMSOP

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MMGT-3021    16.0    1095    B,R,M                             L

Goal.  Inspect maintenance functional areas.

Requirement.  Given the applicable references and inspection checklists for three functional areas:

1.  State the purpose for inspecting functional areas.
2.  List the functional areas in your section.
3.  Schedule an inspection.
4.  Inform functional area managers of the inspection.
5.  Conduct an inspection.
6.  Document the result of the inspection.
7.  State to whom the inspection findings are submitted.
8.  Direct corrective actions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100

Ordnance.  None

Range.  None

External Syllabus Support. None

Reference.
1. FSMAO Checklist
2. CGI Checklist
3. Unit SOP
4. MMSOP
5. MCO P4790.2
6. UM 4000-125 GCSS-MC User's Manual

MMGT-3022      2.0      *      B                                                        L

Goal. Validate SECREP assets in preparation for float re-computation conference.

Requirement. Given a practical application scenario, applicable maintenance and supply history documents, review and provide recommendations for organizational Critical Low Density SECREP (CLD) assets and required on-hand quantities in preparation for float recomputation.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2102, 2105

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 4790.2
2. MCO 4400.150
3. FEDLOG/WEBFLIS
4. UM 4000-125 GCSS-MC User's Manual
5. MMSOP

3.11.5 DEPLOYMENT (DEPL) STAGE

3.11.5.1 Purpose. To provide the mission skills required to deploy Marine Air Command and Control Systems (MACCS) equipment, to include planning, crew management, system configuration management, and employment procedures.

3.11.5.2 General

      Prerequisite. NONE

      Admin Notes. NONE

      Crew Requirements. NONE

DEPL-3040      8.0      1095      B,R,M                                              L

Goal. Prepare system for embark.

Requirement. Given an Equipment Density List (EDL) that supports the mission, prepare system for embark/retrograde:

1. Conduct proper system power down/teardown.
2. Layout and conduct an SL-3 inventory of the equipment.
3. Conduct Limited Technical Inspections on listed equipment.
4. Pack and secure equipment.
5. Create a packing list.
6. Placard/label the shelters for embark.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2101, 2130

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3120.6 (Standard Embarkation Management System)
2. TM 12041A/15050A-OD/2 CAC2S System User Manual
3. Unit SOP


DEPL-3041     6.0     1095     B,R,M                                                      L


Goal. Identify Operational Requirements.

Requirement. Given an OPORD and lessons learned, determine the operational requirement of the maintenance section to support the mission, to include:

1. Communication electronics equipment required.
   a. Radio requirements.
   b. Network requirements.
   c. TMDE
   d. Tools
2. Engineering equipment.
   a. Air conditioners.
   b. Heavy equipment.
   c. Generators.
3. Personnel required.
   a. Identify minimum number of mission skilled maintainers per crew required to support the mission.
   b. Identify minimum number of designated leaders required to support the mission.
   c. List the administrative requirements for crew.
      (1) Tactical license.
      (2) Security Clearances/Couriers
      (3) Personnel packing list requirements.
4. EKMS required.

5.  Logistics support required.
6.  Supply support required.
    a.  Bill of Material (BOM) requirements.
    b.  SECREP requirements.
7.  Frequencies required.
    a.  Draft a frequency request.
    b.  Draft a satellite access request.
8.  Develop an Equipment Density List (EDL) for PEIs.
9.  Draw a site layout plan.
10.  Draft a brief covering addressing the deployment and emplacement plan to support the mission.
11.  Submit the site layout and brief the plan.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Planning MCWP 5-1
2.  MOS Manual
3.  Unit T/O and T/E
4.  MCWP 3-40.3
5.  Warning Order
6.  Operational Order
7.  T&R Manual

DEPL-3042      4.0      1095     B,R,M                                                      L

Goal.  Develop disaster recovery plan.

Requirement.  With the aid of reference, perform the following:

1.  Data backup/recovery plan
2.  Power grid plan
3.  Security plan
4.  Accountability

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2000, 2002, 2022, 2143

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  User manuals
2.  Commercial resources


DEPL-3043      6.0      1095      B,R,M                                                    L

Goal.  Design a site layout.

Requirement.  Given a scenario, the references, a TO/E and mission statement, determine an appropriate site for system emplacement by designing a site layout by performing the following:

1.  Conduct a site survey.
2.  Determine a primary and secondary site location.
3.  Analyze terrain to:
    a.  Determine tactical orientation and equipment emplacement.
    b.  Determine obstructions and hazards.
    c.  Determine communications requirements and obstacles.
    d.  Determine operational footprint.
    e.  Determine power and fuel requirements.
    f.  Determine the placement for vehicles.
    g.  Determine the placement for antennas.
    h.  Determine proper grounding system.
    i.  Determine protection from the elements.
    j.  Determine Terrain Masking.
4.  Utilize planning tools (FalconView, AMP, SPEED, etc.) to determine terrain masking and line of sight connectivity.
5.  Design a site layout.
    a.  Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Fuels (HERF) regulations.
    b.  Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Ordnance (HERO) regulations.
    c.  Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Personnel (HERP) regulations.
    d.  Ensure emitters are emplaced to support working area.
    e.  Ensure all equipment is clearly depicted.
6.  Submit the site layout to the instructor for validation.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

1. Technical Manuals
2. Operational Order
3. CMR
4. MCWP 3-25.4
5. MCWP 5-1


DEPL-3044      8.0      1095    B,R,M                                                    L

Goal.  Develop a Communications Plan for a MACCS agency.

Requirement.  Given the references and an operational scenario, develop a communications plan.
1. Develop a Single Channel Radio (SCR)Diagram for a MACCS agency's doctrinal nets
2. Develop a SCR guard chart for the communications plan.
3. Develop a chat guard chart for a MACCS agency's typical chat rooms.
4. Develop a data link architecture diagram depicting an agency's participation.
5. Develop a digital backbone diagram depicting the connection to services.
6. Develop restoration priorities.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2139

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCWP 3-25 Series
2. MCWP 3-40.3


DEPL-3045      4.0      1095    B,R,M                                                    L

Goal.  Plan for deployment of Tactical Data Systems.

Requirement.  Complete the following events:

1. Establish an accurate equipment density list.
2. Establish an accurate packing list.
3. Establish an accurate T/O list.
4. Identify heavy equipment requirements
5. Establish an accurate bill of materials list.
6. Coordinate COMSEC support.
7. Identify communication requirement.
8. Establish an accurate SECREP list required for deployment.
9. Build a contacts list for key planning personnel.
10. Identify and request fuel requirements.
11. Identify and request power requirements.
12. Coordinate with MMO for proper procurement procedures during deployment.
13. Identify and request environmental condition unit requirements.

14. Identify and request appropriate transportation requirements.
15. Identify facility requirements.
16. Obtain letter of instruction for deployment.
17. Inspect gear required on the gear list for individual Marines for deployment.
18. Familiarize the Marines with emergency action plan for deployment.
19. Plan for the safeguarding and transportation of CCI/Classified material.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Unit SOP
2. Technical Manuals
3. Operational Order
4. CMR

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DEPL-3046     8.0     1095     B,R,M                                                      L

Goal. Develop a Communications Plan for the MACCS

Requirement. As a part of a planning team, given the references and an operational scenario, develop a communications plan.
1. Develop a Single Channel Radio (SCR)Diagram for MACCS doctrinal nets
2. Develop a SCR guard chart for the communications plan.
3. Develop a chat guard chart for typical MACCS chat rooms.
4. Develop a data link architecture diagram depicting the MACCS datalinks
5. Develop a digital backbone diagram depicting the connection to services.
6. Develop restoration priorities.

Performance Standard. As a part of a planning team that consists of a representative from each MACCS agency develop a communications plan.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
MCWP 3-40.3

DEPL-3047     8.0     1095     B,R,M                                                    L

Goal. Conduct post deployment analysis

Requirement. Given a plan operational requirements, conduct a debrief with crew chiefs, maintenance chiefs, and maintenance officers to develop lessons learned upon completion of a deployment that includes the following:

1. Personnel
   a. T&R
   b. Quantity
   c. Packing List
   d. Medical/Dental
   e. Administrative/legal readiness
2. Equipment
   a. Excesses and shortages
   b. Float Block/Class IX shortages
   c. Site Survey/Layout
   d. Terrain Masking
   e. Supported operational requirements
3. Planning Process
   a. Environmental
   b. Spectrum/SAA
   c. Communications requirements
      (1) Voice
      (2) Data
      (3) Phones
      (4) Keying Material
   d. Logistical Support
      (1) Heavy Equipment
      (2) Supply
      (3) BOM
      (4) Fuel
      (5) Water
      (6) Utilities
      (7) Chow
      (8) Billeting
   e. Emergency Action Plan
   f. Disaster Recovery Plan
4. Security
   a. Personnel
   b. Material
   c. Couriers/Transportation
   d. Storage
5. Document lessons learned

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2143, 3042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3120.6
2. Technical Manuals
3. Operational Order
4. CMR
5. Unit SOP

3.11.6  AVIATION COMMUNICATION SYSTEMS (AVCOMM) STAGE

3.11.6.1  Purpose. To provide the mission skills necessary to safely embark, setup, operate, maintain, and integrate organic communication system and other communication assets within the Marine Air Command and Control System (MACCS).

3.11.6.2  General

Prerequisite. NONE

Admin Notes. NONE

Crew Requirements. NONE

AVCOMM-3100 4.0     1095     B,R,M                                 AN/MRQ-13     L

Goal. Set-up the Communications System (CS)

Requirement. Given required communications system(s) and as a member of a crew , perform the following:

1. Emplace the communications system(s).
2. Ground equipment.
3. Erect and cable antennas.
4. Apply power.
   a. Verify inputs and phases.
   b. Hook up NATO slave cable.
   c. Power up shelter and all ancillary equipment in proper sequence.
5. Emplace tent switch
6. Emplace UIDs/VSOLs
7. Run voice network cabling

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2000, 2001, 2020, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208

Ordnance. None

Range. None

External Syllabus Support.  Utilities mechanic to properly connect and power up required generator.

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
3. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
4. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System
5. Distributed Scalable Access Net (DSAN) Systems Manual
6. TM 9406-15 Grounding Procedures
7. MCRP 3-40.3B Radio Operator's Handbook


AVCOMM-3101 4.0          1095      B,R,M                                              AN/MRQ-13      L


Goal.  Verify voice communications are operational.

Requirement.  Given a scenario, operational documents, and a CS:

1. Verify radio frequency configuration.
2. Verify Crypto.
3. Verify radio net configurations.
4. Verify antenna type and locations.
5. Conduct radio check with external agency.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2000, 2001, 2020, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
3. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
4. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System
5. Distributed Scalable Access Net (DSAN) Systems Manual Software Build 5.13
6. TM 9406-15 Grounding Procedures
7. MCRP 3-40.3B Radio Operator's Handbook


AVCOMM-3102 12.0         1095      B,R,M                                              AN/MRQ-13      L


Goal.  Deploy the CS in support of operational requirements.

Requirement.  Given operational input, perform the following:

1. Conduct detailed planning of the Area of Operations (AO)
a. SPEED Analysis

b. Retrans/Relay requirements as required
2. Create redundant communications paths as appropriate IAW restoration priority
3. Assign priority radio nets to radios with auxilliary vehicle power
4. Emplace antennas in accordance with mission requirements
a. Directionalize antenna propagation pattern
b. Reduction of RF footprint/EM signature
5. Assign user templates IAW mission requirements/billets
6. Ensure logistical support is confirmed
a. Generator support
b. ECU support
c. Supply support
7. Develop CS network topology

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2000, 2001, 2020, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3100, 3101

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
3. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
4. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System
5. Distributed Scalable Access Net (DSAN) Systems Manual Software Build 5.13
6. TM 9406-15 Grounding Procedures
7. MCRP 3-40.3B Radio Operator's Handbook

3.12  CORE PLUS TRAINING (4000)

3.12.1  Purpose. To provide Core Skill Plus training. A certain number of Core Skill Plus qualified Marines must be maintained to accomplish special missions or tasks, to include supervision and training of a core competent crew. The Marine is exposed to advanced MACCS integration and employment of the DASC, ASLT, or ASE within a joint environment.

3.12.2  General.

3.12.2.1  Prerequisiste. Qual-6100

3.12.2.2  Admin Notes. The following information is provided to guide the Marine in the training of this Phase:

(1) Training in this phase does not preclude simultaneous training in the Mission Skill and Core Skill phases.

(2) Individual Core Skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

(3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable.  Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event.  Crewmember assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual properly demonstrating the event performance standard.

(4) Academic Training.  Academic training will be conducted prior to and concurrently with required events.  An academic training event, once completed, can be credited as a prerequisite for follow-on training events.

3.12.2.3  Stages.  The following stages are included in the Core Plus Skill phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 3.12.3 | AVIATION COMMUNICATION SYSTEMS (AVCOMM) |
| 3.12.4 | PREVENTIVE MAINTENANCE/CORRECTIVE MAINTENANCE (PMCM) |
| 3.12.5 | OPERATIONS MANAGEMENT (OMGT) |
| 3.12.6 | FAMILIARIZATION (FAM) |

3.12.3  AVIATION COMMUNICATION SYSTEMS (AVCOMM) STAGE

3.12.3.1  Purpose.  To provide the core plus and mission plus skills  to embark, setup, operate, maintain, and integrate mission specific or non-ogranic communication systems and other communication assets within the Marine Air Command and Control System (MACCS).

3.12.3.2  General

       Prerequisite.  NONE.

       Admin Notes.  NONE.

       Crew Requirements.  NONE.

AVCOMM-4218 1.0    *      B                              AN/GRC-171B(V)4      L

       Goal.  Configure AN/GRC-171B(V)4 for operations.

       Requirement.  Given an AN/GRC-171B(V)4:

       1.  Identify the characteristics of the AN/GRC-171B(V)4.
       2.  Identify the components of the AN/GRC-171B(V)4.
       3.  Configure AN/GRC-171B(V)4 for  voice communications
       4. Configure AN/GRC-171B(V)4 for Link-11 operations
       5.  Conduct a communications check.

       Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

       Instructor.  BI

       Prerequisite.  None

       Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
TM-09780A-13&P/1

AVCOMM-4219 1.0        *        B                                                AN/GRC-256A   L

Goal.  Configure AN/GRC-256A for operations.

Requirement.  Given the AN/GRC-256A:

1.  Identify the characteristics of the AN/GRC-256A.
2.  Identify the components of the AN/GRC-256A.
3.  Configure AN/GRC-256A for  voice communications
4. Configure AN/GRC-256A for Link-11 operations
5.  Conduct a communications check.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM-11228A-OI/1 – RT-9000 Operation and Maintenance Manual
2.  TM-11228A-OI/2 – LPA-9500 Operation and Maintenance Manual

AVCOMM-4220 2.0        *        B                                                AN/GRC-171B(V)4        L

Goal.  Conduct maintenance on the AN/GRC-171B(V)4

Requirement.  Given the references, tools, TMDE, and an AN/GRC-171(V)4 with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1.  Perform PMCS
2.  Perform Corrective Maintenance to the LRU
3.  Verify correct operation.
4.  Document maintenance actions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
TM-09780A-13&P/1


AVCOMM-4221 2.0      *      B                                                   AN/GRC-256A   L

Goal. Conduct maintenance on the AN/GRC-256A

Requirement. Given the references, tools, TMDE, and an AN/GRC-256A with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Perform PMCS
2. Perform Corrective Maintenance to the LRU
3. Verify correct operation.
4. Document maintenance actions.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Receiver Radio R-2420/URC
2. TM-11228A-OI/1 – RT-9000 Operation and Maintenance Manual
3. TM-11228A-OI/2 – LPA-9500 Operation and Maintenance Manual


TDL-4815      10      0      B                                                         G

Goal. State the Characteristics of Link 11

Requirement. 1. Define the following Link 11 station modes of operation:
a. Net Control Station (NCS)
b. Picket
c. Radio Silence
2. Define the following Link 11 net modes of operation:
a. Roll Call
b. Broadcast (Long)
c. Short Broadcast
d. Net Sync

                                                              

e. Net Test
3. State the purpose of the following Link 11 waveforms:
a. Conventional Link 11 Waveform (CLEW)
b. Single Tone Link 11 Waveform (SLEW)
4. Describe the characteristics of the following Link 11 data encryption modes:
a. A1
b. A2
c. B
d. Plain Text
5. Define Data Link Reference Point, and state typical usage criteria and limitations.
6. Describe Link 11 Gridlock.
7. Define Net Cycle Time

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-4816        10        0        B                                                G

Goal.  State the characteristics of Link 11B

Requirement.  1.  State the communications mediums that Link 11B can be transmitted over.
2.  State the most common encryption devices used for Link 11B.
3.  State the purpose of "strapping," with respect to Link 11B encryption devices.
4.  Define the following Link 11B data transmission modes:
a.  Limited Transmission of Data (LTD) mode.
b.  Full Transmission of Data (FTD) mode.
5.  Define Data Link Reference point, and state typical usage criteria and limitations per the Joint Multi-TDL Operating Procedures.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-4818     30     0     B                                                    G

Goal. State the characteristics of Link 16

Requirement. Perform the following:

1. Identify terminal capacity of a Link 16 terminal.
2. Identify spectral capacity of a Link 16 network.
3. Identify the two types of security used by Link 16.
4. Identify the organization of a Secure Data Unit (SDU).
5. Identify the purpose of the JANUS Table.
6. Identify the two range modes associated with Link 16.
7. Define direct connectivity.
8. Define relayed connectivity.
9. Identify the purpose of an Initialization Data Load (IDL).
10. Locate the website and phone number of the USMC Network Design Facility (NDF).
11. Define time division multiple access.
12. Identify the acceptable time error when initializing a Link 16 terminal.
13. Explain the synchronization process and the importance of each message in the synchronization process:
    a. Precise Participate Location and Identification (PPLI)
    b. Initial Entry Message (IEM)
    c. Round Trip Timing (RTT) Message
14. Identify the two Link 16 duties that transmit the IEM.
15. Identify the frequency range used by Link 16.
16. State the purpose of pulse deconfliction.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. CJCSI 6232.01, Link 16 Spectrum Deconfliction

TDL-4819     20     0     B                                                    G

Goal. State the characteristics of the Joint Range Extension Application Protocol (JREAP).

Requirement. Perform the following:

1. Describe JREAP A.
2. Select the data rates of JREAP A.
3. Describe JREAP A roles.
4. Describe the JREAP A Transmission Sequence List (TSL).
5. Explain the difference between JREAP A and Satellite J.
6. Describe JREAP B.
7. Describe JREAP B modes of operation.
8. Select JREAP B data rates.
9. Describe JREAP C.
10. Describe JREAP C modes of operation.
11. Define the following terms associated with JREAP:
    a. Common Time Reference
    b. Demand Assigned Multiple Access (DAMA)
    c. Joint Range Extension (JRE)
    d. JRE Network Controller
    e. JRE Source Track Number
    f. Link 16 Zone
    g. Multicast
    h. Packet
    i. Port
    j. Secondary Track Number
    k. Token Passing
    l. Unicast

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-3011, JREAP Interface Standard

TDL-4820        20      0       B                                                    G

Goal. Identify mission essential segments, sets, and fields within the OPTASK LINK message.

Requirement. With the aid of reference, perform the following:

1. Identify the purpose of the OPTASK LINK.
2. Identify who is responsible for creating and disseminating the OPTASK LINK.
3. State the purpose of the Common Message Processor (CMP) and discuss its relationship to the OPTASK LINK.
4. Define Segment.
5. Define Set.

6.  Define Field.

7.  Identify the information contained in the Header of the OPTASK LINK to include the following sets:

a.  GENTEXT/CONDUCT OF TDL OPERATIONS.

b.  POCLINK.

c.  DLRPGRID.

8.  Identify the information contained in the IVCCN Segment.

9.  Identify the information contained in the CORRDEC set.

10. Identify the information contained in THE HEADING/MULTILINK INTERFACE COORDINATION REQUIREMENTS set to include the following GENTEXT sets:

a.  FORCE INTERFACE INFORMATION.

b.  REGIONAL INTERFACE INFORMATION.

c.  SECTOR INTERFACE INFORMATION.

d.  CHANGE DATA ORDER AUTHORITIES.

e.  CONTINGENCY PROCEDURES.

f.  TRACK PRODUCTION AREA GUIDANCE.

11. Identify the information contained in the MULCDUTY set.

12. Identify the information contained in the Link 11 Segment to include the following sets:

a.  POLLSEQ.

b.  LSYSDATA.

c.  CRYPTDAT.

d.  DALKFREQ.

e.  FORCFLTER.

f.  LPUDATA.

g.  UNITFLTR.

13. Identify the information contained in the Link 16 Segment to include the following sets:

a.  JNETWORK.

b.  CPD.

c.  JCRYPDAT.

d.  JTRNMODE.

e.  JSTNETS

f.  JUDATA.

g.  SQDDATA.

14. Identify the information contained in the Joint Range Extension (JRE) Data Segment to include the following sets:

a.  UNITINFO.

b.  LNKPROT.

c.  SECTEL.

d.  SECINTER.

e.  SATCONN.

f.  CONMATRX.

15. Identify the information contained in the 1MANCODE set.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures

2. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

TDL-4821      10     0     B                                      G

Goal. State the purpose of Interface Coordination procedures.

Requirement. Perform the following:

1. Identify the purpose of data link entry/exit procedures.
2. Define data registration.
3. State the purpose of the following data registrations:
a. Geodetic registration
b. Sensor registration
c. Remote Interface Unit (IU) registration
4. List the steps of the data registration test.
5. State which unit will normally be assigned as the data registration reference unit in a Multi-TDL environment.
6. List the five correlation restrictions for reported tracks.
7. List the eight operational contingency constraints (OCCs) for a track.
8. List the six steps for voice resolution of a dual designation.
9. IAW the JMTOP, what is the single most important element of information of the TDL interface.
10. Define an Identification (ID) conflict.
11. Define an environment conflict.
12. Outline the ID difference resolution procedures.
13. Define a Change Data Order (CDO).
14. State who on the interface may originate a CDO.
15. Identify the three detection and tracking reporting techniques.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MCRP 3-25E, MTTP for an Integrated Air Defense System

TDL-4823      10     0     B                                      G

Goal. State the characteristics of the Variable Message Format (VMF).

Requirement. Given the reference, explain:

1. The purpose of Variable Message Format (VMF) messages

2. The characteristics of VMF messages
3. VMF message functional areas
4. Transmission medium options used to exchange VMF messages
5. Unit Reference Numbers
6. How URNs are assigned
7. The purpose of the K01.2 Unit Reference Query/Response message
8. Position reporting requirements of VMF units
9. The purpose of a K05.1 Position Report
10. The purpose of a K04.1 Observation Report
11. VMF multi-cast groups
12. K Series and J Series data forwarding

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 3115.0, Joint Data Network Operations
2. CJCSM 6120.0, Joint Multi-TDL Operating Procedures (JMTOP)
3. MIL-STD-188-220, Digital Message Transfer Device Subsystems
4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
6. MIL-STD-6017, VMF Interface Standard
7. MIL-STD-6020, Data Forwarding Between TDLs

TDL-4824         10       0       B                                                    G

Goal.  Identify elements of Combat Net Radios (CNR) Networks.

Requirement.  Given the reference:

1. Define Combat Net Radios (CNR).
2. Identify CNR capable data systems in the Marine Corps.
3. Identify CNR capable aircraft in the Marine Corps.
4. Identify CNR capable aircraft in the Joint Force.
5. Identify the purpose of the MIL-STD-2045-47001 Header.
6. Identify CNR Address requirements.
7. Explain how a CNR Data Link addresses can be determined based on aircrafts ATO call sign side number.
8. Identify the purpose of an IP address in CNR.
9. Identify the method to calculate the IP address of an aircraft based on squadron number and ATO call sign side number.
10. Identify the generic subnet mask used to ensure CNR interoperability.
11. Identify the concept of Network Layer Pass-through.
12. Explain the interoperability issues that exist with CNR.
13. Identify the techniques used to provide network access with CNR.
14. Identify the characteristics of Random-Network Access Delay (R-NAD).

15. Identify the characteristics of Deterministic Adaptable Priority-Network Access Delay (DAP-NAD).
16. Define the term radio mix.
17. Explain the importance of timing parameters used with asynchronous CNR networks.
18. Explain the importance of Operational Parameter Settings (OPS) in asynchronous CNR networks.
19. Identify the organization responsible for disseminating OPS.
20. Explain the importance of Extended OPS settings.
21. Explain the process of joining a CNR network with established network parameters.
22. Explain the method to join a CNR network with adaptive network parameters.
23. Describe a Digitally Aided Close Air Support thread.
24. Describe a Digitally Aided Fire Support thread.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 3115.01, Joint Data Network Operations
2.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
3.  MIL-STD-188-220, Digital Message Transfer Device Subsystems
4.  MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5.  MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
6.  MIL-STD-6017, VMF Interface Standard
7.  MAWTS-1 TACP TACSOP
8.  JF J-6 DaCAS White Paper
9.  System of Systems Engineering Change Proposal 1, Base Line DaCAS Messaging and RF Network
10. System of Systems Engineering Change Proposal 4, exchange of Network Parameters
11. Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
12. MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values

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TDL-4825          10          0          B                                                           G

Goal.  Identify elements of the OPTASK LINK Combat Net Radios (CNR)Segment/Supplement.

Requirement.  Given the reference:

1.  Identify the purpose of the OPTASK LINK Combat Net Radios (CNR) Segment/Supplement.
2.  Identify the Variable Message Format (VMF) Functional Areas supported by the OPTASK LINK CNR.
3.  Identify the two radio network architectures supported by the OPTASK LINK CNR.
4.  Identify the information contained in the CNRSEG set.
5.  Identify the information contained in the CNRAREA set.
6.  Identify the relationship between a CNRSEG and an area of operation.
7.  Identify the information contained in the POCLINK set.
8.  Identify the information contained in the CNRSET set.
9.  Identify the information contained in the SNS set.
10. Explain where to find the OPS table referenced in the SNS set.
11. Identify the information contained in the CNETWORK set.
12. Identify the information contained in the CRYPTDAT set.

13. Identify the information contained in the CWEPCRYP set.
14. Identify the information contained in the UHFLOS set.
15. Identify the information contained in the UHFSAT set.
16. Identify the purpose of the Air Support Segment.
17. Identify the information contained in the ASCCID set.
18. Identify the information contained in the ASCCOMM set.
19. Identify the information contained in the Air Support Information GENTEXT.
20. Identify the purpose of the Tactical Control Team Segment.
21. Identify the information contained in the TCTID set.
22. Identify the information contained in the TCTCCOMM set.
23. Identify the information contained in the Tactical Control Team 24. Information GENTEXT.
24. Identify the purpose of the Aircraft CNR Segment.
25. Identify the information contained in the SQDCNRDT set.
26. Identify the information contained in the CNR Coordination Instructions GENTEXT.

Performance Standard. With the aid of the Guide to the USMTF User Formats and given a CNR Network, OPTASK LINK CNR, a CNR Architecture Diagram template, a Quick Reference Guide template, and MIL-STD-188-220 Standard Configuration Tables; perform CNR network planning IAW unit SOP. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. DISA USMTF Baseline
2. Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
3. CJCSM 3115.01, Joint Data Network Operations
4. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP_
5. MIL-STD-188-220, Digital Message Transfer Device Subsystems
6. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
7. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
8. MIL-STD-6017, VMF Interface Standard
9. MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values

TDL-4827          2          0          B                                                                          L

Goal. Configure the Joint Range Extension (JRE)

Requirement. Given JRE hardware and software:

1. Emplace components.
2. Cable components.
3. Energize components.
4. Install the operating system(s).
5. Configure the operating system(s).
6. Install JRE software.
7. Install software patches.
8. Configure JRE software.

Performance Standard. Complete the requirements IAW the    references.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. JRE Software Users Guide
3. JRE Installation and Configuration Guide

TDL-4828        2      0      B                                                              L

Goal. Operate a Joint Range Extension (JRE) Gateway

Requirement. Given a JRE server and client, and an OPTASK LINK:

1. Connect the Windows JRE client to the JRE Solaris server.
2. Inspect/Configure own unit configuration to include:
   a. JU Address
   b. PPLI Message Format
   c. Unit Position Source
   d. Unit Position Location
   e. Elevation
   f. J13.5 System Status
3. Configure JRE client software to include:
   a. Client applications Settings.
      (1) Create client roles and permissions
      (2) Add clients
   b. Configure Raster maps.
   c. Configure eDERG for monitoring and recording.
4. Configure the JRE for the following data links:
   a. Link 16
   b. JREAP A
   c. JREAP B
   d. JREAP C
5. Configure filters IAW the OPTASK LINK.
6. Inspect link configurations.
7. Utilize the connection matrix to transmit data over the appropriate link IAW the forwarding plan
8. Utilize the connection matrix to receive data over the appropriate link

Performance Standard. Complete the requirements IAW the references. Tactical Data System (TDS) administrators may assist with steps (1) and (3) only.

Instructor. BI

Prerequisite. None

Ordnance.  None

Range.  None

External Syllabus Support.  Qualified TDS crew.

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  JRE Version 5.3.x Software User Guide

TDL-4829        2        0        B                                                             L

Goal.  Configure the Air Defense System Integrator (ADSI)

Requirement.  Given ADSI hardware and software:

1. Emplace components.
2. Cable components.
3. Energize components.
4. Install the operating system(s).
5. Configure the operating system(s).
6. Install ADSI software.
7. Install software patches.
8. Configure ADSI software.

Performance Standard.  Complete the requirements IAW the   references.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  ADSI Software Users Guide
3.  ADSI Installation and Configuration Guide

TDL-4831        2        0        B                                                             L

Goal.  Setup  Link 11 Equipment

Requirement.  Given the references, operational documents, and a C2 system with a MIL-STD-6011 compliant data link management software suite:

1.  From operational documents determine frequency(ies) and mode of operations to be employed.
2.  Select and set-up appropriate antenna(e) for planned operations.
3.  Connect antenna(e) via RF cable(s) to host system signal entry patch panel or radio
4.  Verify that the data terminal set, encryption device, and radio(s) are properly cabled to each other, the host system and/or data link manager.

5. Energize the encryption device.
6. Configure the encryption device for operation.
7. Load appropriate keying material into encryption device as determined from operational documents.
8. Energize the data terminal set.
9. If necessary, configure the data terminal set for planned operations.
10. Energize the radio(s).
11. Configure radio(s) for planned operations.
12. Energize or start the data link manager.
13. Log into the data link manager.
14. Configure data link manager for link 11 operations per operational documents.
15. After confirming with ICO/DLC, initialize link.
16. Verify link is operating properly.

Performance Standard. Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. C2 System Technical Manual

TDL-4832          8          0          B                                                            L

Goal. Operate Link 11.

Requirement. Given the references, operational documents, and a C2 system:

1. Extract required information from the OPTASK LINK.
2. Input the required database entries.
3. Enter and activate filters.
4. Verify equipment is correctly configured.
5. Verify cryptographic equipment is keyed.
6. Enter / exit link IAW published procedures.
7. Operate in the following modes:
   a. Radio Silent.
   b. Net Control Station (NCS).
   c. Picket.

Performance Standard. Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance.  None

Range.  None

External Syllabus Support.  Link 11 capable platform(s).

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual


TDL-4833          2          0          B                                                              L

Goal.  Setup  Link 11B Equipment.

Requirement.  Given the references, operational documents, and a C2 system with a MIL-STD-6011 compliant data link management software suite:

1.  From operational documents determine mode of operations and signal path for Link 11B operations.
2.  Run appropriate signal cable from C2 system to intermediate agency that will deliver the serial transmission to the other link participant.
3.  Connect signal cable to C2 System signal entry patch panel or MODEM as appropriate.
4.  Verify that the line encryption device, modem, host system and/or data link manager are properly cabled together.
5.  Energize the line encryption device(s).
6.  Configure the line encryption device(s) for operation.
7.  Load appropriate keying material into line encryption device(s) as determined from operational documents
8.  Energize the modem(s).
9. Configure modem(s) for planned operations.
10. Energize or start the data link manager.
11. Log into the data link manager.
12. Configure data link manager for link 11B operations per operational documents.
13. After confirming with ICO/DLC, initialize link.
14. Verify link is operating properly.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual

TDL-4834           4          0          B                                                                    L

Goal.  Operate Link 11B.

Requirement.  Given the references, operational documents, and a C2 system:

1.  Extract required information from the OPTASK LINK.
2.  Input database entries per the OPTASK LINK.
3.  Enter and activate data filters per the OPTASK LINK.
4.  Verify equipment is correctly configured.
5.  Verify cryptographic equipment is keyed.
6.  Perform proper net entry procedures.
7.  Enter / exit link IAW published procedures.
8.  Operate in the following modes:
a.  Limited Transmission of Data (LTD).
b.  Full Transmission of Data (FTD).

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Link 11B capable platform.

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual


TDL-4835           2          0          B                                                                    L

Goal.  Setup  Link 16 Equipment.

Requirement.  Given the references, operational documents, and a C2 system with a MIL-STD-6016 compliant data link management software suite and link 16 radio:

1.  Review the operational documents and ensure the correct IDL files for your host system are on hand.
2.  Set-up Link-16 antenna.
3.  Connect antenna via appropriate RF cable to host system signal entry patch panel or Link 16 radio.
4.  Verify that the link-16 radio is properly cabled to itself, the host system and/or data link manager for Link-16 data and voice operations.
5.  Energize the link-16 radio.
6.  Load the appropriate keying material into the correct slot of the link 16 radio per operational documents.
7.  Log into the data link manager and configure data link manager for Link 16 operations per operational documents.
8.  Load the correct IDL from the data link manager to the link 16 radio per the operational documents.
9.  Load the correct time from the data link manager to the link 16 radio per the operational documents.
10. After confirming with ICO/DLC, initialize the link.
11. Verify link is operating properly.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  C2 System Technical Manual


TDL-4836          8          0          B                                                                    L

Goal.  Operate Link 16.

Requirement.  Given an OPTASK LINK, Network Description Document (NDD), and a C2 system:

1.  Extract required information from the OPTASK LINK.
2.  Enter required database entries per the OPTASK LINK.
3.  Enter and activate filters per the OPTASK LINK.
4.  Identify Stacked Net assignments for voice and air control.
5.  Enter and valid stacked net assignments in the database.
6.  Obtain the Link 16 initialization data load (IDL) from the USMC Network Design Facility.
7.  Perform Link 16 pulse deconfliction.
8.  Verify equipment is configured correctly.
9.  Verify the cryptographic equipment is keyed.
10.  Load the appropriate time.
11. Load the IDL.
12. Enter/exit link IAW published procedures.
13. Achieve fine synchronization with another interface unit.
14. Operate in/as the following:
    a.  Radio Silent or data silent.
    b.  Network Time Reference  (NTR).
    c.  Initial Entry JTIDS Unit (IEJU).

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual

TDL-4837          2          0          B                                                                L

Goal.  Setup  JREAP-A Equipment.

Requirement.  Given a MIL-STD-3011 compliant data link manager, SATCOM radio assets, Satellite Access Authorization (SAA), and OPTASK LINK:

1.  Extract satellite communications information from the SAA.
2.  Emplace SATCOM antenna at correct azimuth and elevation determined from the SAA.
3.  Connect SATCOM antenna to SATCOM radio via appropriate RF cable.
4.  Verify that SATCOM radio and data link manager are properly cabled together for JREAP A operations.
5.  Energize SATCOM radio.
6.  Configure SATCOM radio for JREAP A operations per the SAA.
7.  Load appropriate keying material into the SATCOM radio per the SAA.
8.  Make a call to the satellite from the SATCOM radio.
9.  Determine if call was successful.
10. Log into the data link manager and configure for JREAP A operations per the OPTASK LINK.
11. After verifying with ICO enter/exit link.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. SATCOM Radio Technical Manual
5. MIL-STD-3011, JREAP Interface Standard

TDL-4838          8          0          B                                                                L

Goal.  Operate JREAP A.

Requirement.  Given a MIL-STD-3011 compliant system, SATCOM radio assets, Satellite Access Authorization (SAA), OPTASK LINK, and assistance from maintenance and communications sections:

1.  Extract satellite communications information from the SAA.
2.  Verify proper radio configuration for JREAP A operations.

3. Verify cryptographic equipment is keyed.
4. Verify JREAP A equipment is connected.
5. Verify the SATCOM antenna has the correct elevation and azimuth.
6. Build the JREAP A link in the MIL-STD-3011 compliant system.
7. Enter and activate filters in the MIL-STD-3011 compliant system.
8. Enable and disable the correct link connections.
9. Enter/exit link IAW published procedures.
10. Demonstrate the ability to operate in the following modes:
   a. Network Participant.
   b. Network Controller.
   c. Network Listener.

Performance Standard. Successfully exchange tracks.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. JREAP-A capable platform(s).

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. SATCOM Radio Technical Manual
5. MIL-STD-3011, JREAP Interface Standard

TDL-4839        2        0        B                                                      L

Goal. Setup JREAP-B Equipment.

Requirement. Given a MIL-STD-3011 compliant data link manager, serial line encryption device, OPTASK LINK, and ANNEX K:

1. From ANNEX K determine where appropriate telephone line for JREAP-B is being supplied.
2. Verify the serial line encryption device is connected to the MIL-STD-3011 compliant system and telephone line.
3. Build the JREAP B link in the MIL-STD-3011 compliant system.
4. Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5. Enable and disable the correct link connections.
6. Enter / exit link IAW published procedures.

Performance Standard. Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

TDL-4840        8        0        B                                                                L

Goal.  Operate JREAP B.

Requirement.  Given a MIL-STD-3011 compliant system, a serial line encryption device, and assistance from maintenance and communications sections:

1.  Verify the serial line encryption device is configured for JREAP B operations.
2.  Verify the serial line encryption device is connected to the MIL-STD-3011 compliant system and telephone line.
3.  Build the JREAP B link in the MIL-STD-3011 compliant system.
4.  Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5.  Enable and disable the correct link connections.
6.  Enter / exit link IAW published procedures.

Performance Standard.  Successfully exchange information/data.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  JREAP-B capable platform.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

TDL-4841        2        0        B                                                                L

Goal.  Setup  JREAP-C Equipment.

Requirement.  Given a MIL-STD-3011 compliant data link manager, OPTASK LINK, and ANNEX K:

1.  Determine the following network information for the JREAP C interface:
a. IP Address.
b. Subnet Mask.
c. Default Gateway.
d. TCP/IP Port(s).

e. Role (Server or Client).
f. TCP/UDP Unicast or Multicast.
2.  Configure the required networking devices for JREAP C communication.
3.  Build the JREAP C link in the MIL-STD-3011 compliant system.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL STD 6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  MIL STD 3011, JREAP
4.  C2 System Technical Manual

---

TDL-4842          8          0          B                                                            L

Goal.  Operate JREAP C.

Requirement.  Given a MIL-STD-3011 compliant system, SIPRNET access, and assistance from maintenance and communications sections:

1.  Verify the MIL-STD-3011 compliant system is configured with the correct IP address.
2.  Verify the MIL-STD-3011 compliant system is connected to the network.
3.  Build JREAP C IP links in the MIL-STD-3011 compliant system.
a.  TCP.
b.  UDP Unicast.
c.  UDP Multicast.
4.  Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5.  Enable and disable the correct link connections.
6.  Activate and exchange information with JREAP-C (either TCP or UDP).

Performance Standard.  Successfully exchange information/data.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  JREAP-C capable platform.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)

2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

TDL-4843      3      0      B                                       L

Goal.  Troubleshoot Link 11.

Requirement.  Given a C2 system with a malfunctioning Link 11:

1. Determine if the internal data path being used for Link 11 is functional.
2. Determine if the Participating Unit is in the NCS's polling sequence.
3. Use transmit and receive quality to determine connectivity.
4. Select and monitor Link 11 messages.
5. Recognize and take appropriate action for an incorrect DLRP.
6. Recognize and take appropriate action for incorrect crypto.
7. Elevate unresolvable issues to the Crew Chief.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. C2 System Technical Manual

TDL-4844      3      0      B                                       L

Goal.  Troubleshoot Link 11B.

Requirement.  Given a C2 system with a malfunctioning Link 11B:

1. Determine if the internal data path being used for Link 11B is functional.
2. Determine if the external data path is established.
3. Select and monitor Link 11B messages.
4. Recognize and take appropriate action for an incorrect DLRP.
5. Recognize and take appropriate action for incorrect crypto.
6. Elevate unresolvable issues to the Crew Chief.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual


TDL-4845          3          0          B                                                                    L


Goal.  Troubleshoot Link 16.

Requirement.  Given a C2 system with a malfunctioning Link 16:

1. Determine if the internal data path being used for Link 16 is functional.
2. Verify direct connectivity exists with a Network Time Reference or an Initial Entry JTIDS Unit.
3. Recognize and take appropriate action for incorrect time.
4. Recognize and take appropriate action for incorrect crypto.
5. Recognize and take appropriate action for incorrect IDL.
6. Select and monitor Link 16 messages.
7. Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  C2 System Technical Manual


TDL-4846          3          0          B                                                                    L


Goal.  Troubleshoot JREAP A.

Requirement.  Given a C2 system with a malfunctioning JREAP A:

1.  Use the SATCOM radio's receive signal strength orderwire (RSSOW) to troubleshoot antenna elevation and azimuth.
2.  Troubleshoot the SATCOM radio's satellite connection status.

3. Determine if the unit's Interface Unit address is in the Network Controller's subscriber list.
4. Elevate unresolvable issues.

Performance Standard. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. SATCOM Radio Technical Manual
5. MIL-STD-3011, JREAP Interface Standard

TDL-4847          3          0          B                                                            L

Goal. Troubleshoot JREAP B.

Requirement. Given a C2 system with a malfunctioning JREAP B:

1. Verify distant end and local settings on the STEs.
2. Verify KSV-21 has the appropriate crypto key.
3. Identify low quality phones lines to the crew chief.
4. Elevate unresolvable issues.

Performance Standard. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

TDL-4848          3          0          B                                                            L

Goal.  Troubleshoot JREAP C.

Requirement.  Given a C2 system with a malfunctioning JREAP C:

1.  Use the ping and trace route functions to determine if a network connection exists between two computers.
2.  Identify firewall exemptions to the communication's section to open blocked ports.
3.  Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard


TDL-4849          8          0          B                                                                        L

Goal.  Conduct tactical data link planning for an agency.

Requirement.  Given an exercise or operational scenario:

1. Obtain the communications and data link source documentation for the specified exercise or operation.
2. Identify required crypto short titles in the COMSEC callout.
3. Identify communication nets required for TDL coordination.
4. Identify duties assigned to the unit in the OPTASK LINK.
5. Identify primary, secondary, and tertiary tactical data links.
6. Identify required TDL equipment and configuration to crew leadership.
7. Construct the data link portion of the crew brief IAW the unit's Pocket Checklist.
8. Provide planning  inputs to the Interface Control Officer as required.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist


TDL-4850        8        0        B                                                    L

Goal.  Conduct tactical data link coordination for an agency.

Requirement.  Given an exercise or operational scenario:

1.  Brief the tactical data link (TDL) portion of the agency's crew brief.
2.  Execute the agency's duties identified in the OPTASK LINK
3.  Respond to instructions given by the Interface Control Officer (ICO).
4.  Provide recommendations to the ICO during execution.
5.  Configure primary, secondary, and tertiary tactical data links.
6.  Monitor the status and health of operational TDLs.
7.  Coordinate data forwarding and link connections for the agency.
8.  Coordinate data filters for the agency.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist


TDL-4851        8        0        B                                                    L

Goal.  Perform track data coordination for a track producing agency

Requirement.  Given the references and an operational C2 system:

1. Coordinate the changes in the agency's track production responsibilities as the tactical situation changes
2. Coordinate the agency's usage of data filters
3. Coordinate the agency's usage of special points, lines, and areas on the Multi-Link Interface
4. Perform the resolution of the following interface anomalies affecting the local agency:
a. Dual designations
b. Duplicate tracks
c. Identification conflicts
d. Category and environment conflicts

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors

corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist


TDL-4852        8        0        B                                                                      L

Goal.  Perform Link 16 Management Functions

Requirement.  Given the references and participation as the Link 16 Manager in a MAGTF or Joint exercise:

1. Schedule usage of Link 16 with the Deconfliction Server for all agencies.
2. Provide input to the Link 16 portion of the OPTASK LINK message.
3. Based upon the Commander's Information Exchange Requirements, coordinate with the ICO the selection of a network which will meet these IERs.
4. Ensure that each Link 16 participant has the correct IDL.
5. Direct the proper initialization of the Link 16 network.
6. Monitor network performance and recommend modification/changes to the ICO.
7. Maintain an accurate status of the network and its participants.
8. When required, coordinate changes to the network.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Link 16 capable units participating in a MAGTF or Joint exercise.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. LMS-MT System Users Guide
3. CJCSI 6232.01, Link 16 Spectrum Deconfliction


TDL-4853        8        0        B                                                                      L

Goal.  Perform as the Track Data Coordinator

Requirement.  Given the references and an operational MACCS:

1.  Perform as the Net Control Station for the Track Supervision Net (TSN).
2.  Direct a data registration test between two track producing units.
3.  Resolve the following interface anomalies:
a.  Dual designations
b.  Duplicate tracks
c.  Identification conflicts
d.  Category and environment conflicts
4.  Transmit Change Data Orders (CDOs) when required.
5.  Monitor the use and transmission of special points, lines, and areas.
6.  Enforce the track production plan.
7.  Recommend changes to surveillance areas to the Interface Control Officer (ICO).
8.  Recommend changes in data filter usage to the ICO.
9.  Conduct Fidelity Drills as directed by the ICO

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Two track producing agencies.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

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TDL-4854          8          0          B                                                                        L

Goal.  Perform Interface Control Officer planning functions.

Requirement.  Given a scenario and the references:

1.  Gather details pertaining to the operational environment to include:
a. Operational Scenario.
b. Identification and prioritization of information exchange requirements.
c. Communications equipment characteristics and frequencies.
d. EW Considerations.
e. Cryptographic requirements.
2. Gather details on each TDL Interface Participant to include:
a. Geographic location.
b. Information exchange requirements.
c. Expected track loading.
d. Capabilities and limitations.
e. Current issues or degradations that would affect an Interface Unit's ability to operate its assigned data links.
3. Identify capabilities and limitations of each Tactical Data Link (TDL) to support information exchange

requirements.
4. Develop the Multi-TDL Architecture.
5. Coordinate with the USMC Network Design Facility for an appropriate Link 16 Network
6. Validate that the Multi-TDL Architecture supports information exchange requirements.
7. Develop the OPTASK LINK.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard
5. https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
6. CJCSI 6232.01, Link 16 Spectrum Deconfliction
7. MCRP 3-25E, MTTP for an Integrated Air Defense System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS


TDL-4855          8          0          B                                                              L


Goal.  Perform Interface Control Officer Execution Functions.

Requirement.  Given the references and an operational MACCS:

1.  Perform as the Net Control Station (NCS) for the Data Link Coordination Net (DCN).
2.  Coordinate the NCS for Link 11.
3.  Coordinate the Network Time Reference (NTR) for Link 16.
4.  Enforce published net entry and exit procedures.
5.  Direct data link fidelity drills.
6.  Direct the activation of data filters as required.
7.  Monitor and maintain Interface Unit (IU) TDL status.
8.  Determine and resolve Multi-TDL connectivity problems.
9.  Direct and assist the Track Data Coordinator in resolving issues.
10. Coordinate the activation of secondary and tertiary data links.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard
5. https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
6. CJCSI 6232.01, Link 16 Spectrum Deconfliction
7. MCRP 3-25E, MTTP for an Integrated Air Defense System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS


MMGT-4900     4.0        1095     B,R,M                                                    L

Goal.  Assess maintenance shop performance.

Requirement.  Given the references, perform the following:

1. Determine key performance indicators.
2. Determine functional areas to be inspected.
3. Develop an inspection plan.
4. Assign personnel to conduct inspections.
5. Review results.
6. Assess strengths and weaknesses.
7. Develop/implement a corrective plan.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. FSMAO Checklist
2. CGI Checklist
3. Unit SOP
4. MMSOP
5. MCO P4790.2
6. UM 4000-125 GCSS-MC User's Manual


MMGT-4901     2.0        1095     BI, R, M                              L

Goal.  Assess maintenance section funding requirements.

Requirement.  With the aid of references and given equipment maintenance history, projected TEEP, and

anticipated maintenance shortfalls, propose funding allocations for maintenance activities.
1. Identify and prioritize funding requirements.
2. Provide a maintenance funding request based on requirements and prior year utilization.
3. Provide an anticipated maintenance funding request based on the unit's TEEP.
4. Identify personnel travel requirements.
5. Identify unit-funded training requirements.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 4400.150
2. MCO 7300.21A

3.13 INSTRUCTOR UNDER TRAINING (IUT) (5000)

3.13.1 Purpose. To provide technicians the additional skills necessary to instruct, evaluate and approve event completions. Upon completion of the required training, an individual may be approved for instructor designation by the commanding officer.

3.13.2 General.

3.13.2.1 Prerequisiste. NONE.

3.13.2.2 Admin Notes.

a. The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to the concepts of managing a WTTP, properly conducting training, performing evaluations, and recommending training plans.

b. There are different instructor designations (listed below). The intent is to train individuals with different levels and areas of experience to instruct personnel. Instructor experience is also gained while progressing through the different instructor designations.

(1) Basic Instructor (BI)

(2) Senior Instructor (SI)

(3) The MAWTS-1 C3 Course catalog contains the training requirements for the above listed instructors. The catalog is located at the MAWTS-1 website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/default.aspx

(4) The table below outlines the events that each instructor can train, evaluate, and approve or recommend for approval.

| INSTRUCTOR | Event Training, Evaluation and Approval |
|---|---|

| BI | Core Skill events in which current and proficient. |
| SI | Core Skill, Mission Skill, and Core Plus events in which current and proficient. |

3.13.2.3  Stages.  The following stages are included in the Instructor Under Training Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 3.13.3  | INSTRUCTOR UNDER TRAINING (IUT) |

IUT-5000                    *
_____

Goal.  Introduce principals of instruction

Requirement.
Performance Standard.  N/A

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.


IUT-5010                    *
_____

Goal.  Describe individual T&R requirements

Requirement.
Performance Standard.  N/A

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.


IUT-5020                    *
_____

Goal.  Conduct T&R instruction

Requirement.

Performance Standard.  N/A

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.


IUT-5100                    *

Goal.  Describe the Aviation Training and Readiness (T&R) Program

Requirement.
Performance Standard.  N/A

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.


IUT-5110                    *

Goal.  Conduct instructor evaluations

Requirement.
Performance Standard.  N/A

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.


IUT-5120                    *

Goal. Perform T&R administration

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

IUT-5130                    *_____

Goal. Develop a training plan

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

3.14  REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000)

3.14.1  Purpose.  This phase provides community standardization for technician qualifications and designations; combat leaders and instructor designations; and tracking of collateral duties (CD) assignments,.  This syllabus does not contain "one time" certification training requirements.

3.14.2  General.

3.14.2.1  Prerequisite. NONE.

3.14.2.2  Admin Notes.

        (1) This section enables units to document and track combat leaders, instructors, technician and CD assignments.  All syllabus training and administration requirements must be complete prior to being qualified or designated.  A qualification or designation is not effective until all administration is completed.

    (2) Only once an individual is qualified or designated in writing, the signed letter is filed in the IPR, and all administrative actions are completed, and the event code has been logged in M-SHARP shall the qualification or designation be effective.

3.14.2.3 <u>Stages</u>. The following stages are included in the Requirements, Certifications, Qualifications, and Designations Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 3.14.3 | QUALIFICATION (QUAL) |
| 3.14.4 | DESIGNATION (DESG) |

3.14.3 <u>QUALIFICATIONS (QUAL) STAGE</u>

3.14.3.1 <u>Purpose</u>. To provide the path to obtain IOW, IOS, AFATDS, and TBMCS Web Remote qualifications. Refer to the Core Skill Basic and Advanced phases for qualification syllabus.

3.14.3.2 <u>General</u>

 <u>Prerequisite</u>. None

 <u>Admin Notes</u>. Qualification codes will be logged upon completion of qualification requirements; the qualification letter has been signed by the commanding officer, filed in the individual's IPR, and an entry logged. Policies and rules for maintaining qualifications are detailed in the Aviation T&R Program Manual and this Manual.

 <u>Crew Requirements</u>. None

QUAL-6440   0

 <u>Goal</u>. Qualification as Aviation Communications Basic Tech (ACBT), DASC

 <u>Requirement.</u>
 <u>Performance Standard.</u> N/A

 <u>Instructor.</u> WTI

 <u>Prerequisite.</u> 2000, 2001, 2020, 2021, 2040, 2041, 2100, 2101, 2102, 2103, 2130, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 3040, 3100

 <u>Ordnance.</u> None

 <u>Range.</u> None

 <u>External Syllabus Support.</u> None

 <u>Reference.</u>

QUAL-6441   0

 <u>Goal</u>. Qualification as Aviation Communications Advanced Tech (ACAT), DASC

 <u>Requirement.</u>
 <u>Performance Standard.</u> N/A

Instructor. WTI

Prerequisite. 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3000, 3001, 3040, 3100, 3101, 8000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

QUAL-6442               0

Goal. Qualification as Aviation Communications Crew Chief (ACCC), DASC

Requirement.
Performance Standard. N/A

Instructor. WTI

Prerequisite. 2000, 2001, 2002, 2004, 2020, 2021, 2022, 2023, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2800, 2801, 2802, 2803, 2809, 3002, 3003, 3020, 3040, 3041, 3042, 3100, 3101, 3102, 8000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

3.14.4      DESIGNATIONS (DESG)

3.14.4.1      Purpose. To provide for designation of combat leaders and instructors. Designations are command specific and expire when an individual transfers out of a command. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a designation are current prior to approving that designation. If prerequisite R- coded events are delinquent, the individual shall update those events.

3.14.4.2      General

Prerequisite. None

Admin Notes.   Policies and rules for attaining and maintaining certifications are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. None

DESG-6100      1.0      *      B                                                      L

Goal. Designation as a Maintenance Safety NCO.

Requirement. Perform all duties associated with the Maintenance Safety NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2064, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Unit SOP


DESG-6101      1.0      *      B                                                    L

Goal. Designation as a Maintenance HAZMAT NCO.

Requirement. Perform all duties associated with the Hazmat NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2064, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Unit SOP


DESG-6102      1.0      *      B                                                    L

Goal. Designation as a Maintenance Publications NCO.

Requirement. Perform all duties associated with the Publications NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor.  WTI

Prerequisite.  2063, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2

DESG-6103        1.0        *        B                                                              L

Goal.  Designation as a Maintenance Tools NCO.

Requirement.  Perform all duties associated with the Tools NCO IAW the reference for a period no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2062, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2

DESG-6104        1.0        *        B                                                              L

Goal.  Designation as a Maintenance Calibrations NCO.

Requirement.  Perform all duties associated with the Calibrations NCO IAW the reference for a period no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2060, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2

DESG-6105      1.0      *      B                                              L

Goal.  Designation as a Maintenance Modifications NCO.

Requirement.  Perform all duties associated with the Modifications NCO IAW the reference for a period no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2061, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2

DESG-6106      1.0      *      B                                              L

Goal.  Designation as a Maintenance Embarkation NCO.

Requirement.  Perform all duties associated with the Embarkation NCO IAW the reference for a period no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2065, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Unit SOP

DESG-6107      1.0      *      B                                              L

Goal. Designation as a Maintenance Management NCO.

Requirement. Perform all duties associated with the Marine Corps Integrated Maintenance Management System (MIMMS) NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2100, 2102, 2107

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2

DESG-6108        1.0        *        B                                                                    L

Goal. Designation as a Maintenance Training NCO.

Requirement. Perform all duties associated with the Training NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2068, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Unit SOP

DESG-6109        1.0        *        B                                                                    L

Goal. Designation as a AVCOMM Maintenance Quality Control (QC) NCO.

Requirement. Perform all duties associated with the Quality Control NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor.  WTI

Prerequisite.  2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2067, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3000, 3001, 3040, 3100, 3101, 8000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Unit SOP


DESG-6250              0        B

Goal.  Designation as Information Assurance Technician Level I (IAT I)

Requirement.  Complete the requirements to attain Information Assurance Technician Level I in accordance with the current cybersecurity references.

Performance Standard.  Complete requirements in accordance with the reference.

Instructor.  WTI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DOD 8570.01-M
2.  DOD Directive 8140.01
3.  http://iase.disa.mil


DESG-6253              0        B

Goal.  Designation as Information Assurance Manager Level I (IAM I)

Requirement.  Complete the requirements to attain Information Assurance Manager Level I in accordance with the current cybersecurity references.

Performance Standard.  Complete requirements in accordance with the reference.

Instructor.  WTI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DOD 8570.01-M
2.  DOD Directive 8140.01
3.  http://iase.disa.mil

DESG-6320      1.0      *      B                                              L

Goal.  Designation as a Basic Instructor (BI).

Requirement.  Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  5000, 5010, 5020

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  NAVMC 3500.14

DESG-6321      1.0      *      B                                              L

Goal.  Designation as a Senior Instructor (SI).

Requirement.  Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  5000, 5010, 5020, 5100, 5110, 5120, 5130

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  NAVMC 3500.14

DESG-6443         0

Goal. Designation as Aviation Communications Maintenance Chief (ACMC), DASC

Requirement.
Performance Standard. N/A

Instructor. WTI

Prerequisite. 2000, 2001, 2002, 2003, 2005, 2006, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2800, 2801, 2802, 2803, 2805, 2806, 2808, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 3000, 3001, 3003, 3020, 3021, 3022, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3100, 3101, 3102, 8000, 8020, 8040, 8060, 8080

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. Conduct a Map Survey selecting primary and alternate sites
2. Checklists for the transfer of control ashore are on hand and utilized
3. Review the procedures delineated in the operation plan/other directives for the phasing of control ashore and keeps the Naval Tactical Air Control Center informed of current status
5. Deploy ashore
6. Brief the operational crew concerning their duties for the passage of control
7. Establish and maintain DASC specific communication requirements
8. Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted
9. Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place
10. Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft
11. Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft
12. Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand
13. Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets
14. Ensure all requirements have been met and then advise the TACC (afloat) and FSCC that the DASC is prepared for the phasing of control of OAS/AS ashore
15. Ensure the preplanned sequence of phasing control of OAS/AS ashore is completed and the SAD acknowledges/produces any reports required
16. Advise CLF when ready to assume control of all or a portion of direct air support ashore (specify OAS, Assault Support, Air Recce, EW) at a specified date and time

17. Advise CLF that control has been transferred and the date/time group that transfer was accomplished

18. Advise the TACC (afloat)/TADC (ashore) and FSCC that the DASC now has control referencing date and time (local)

19. Maintain continuous coordination with adjacent and higher agencies

20. Notify all adjacent agencies when transfer of control is completed

21. As necessary, DASC/SACC liaison team provides further updates of information upon arrival at DASC site

Performance Standard.   Perform the requirement items listed to conduct phasing control ashore during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.   ASE, DASC

Instructor.   C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None

Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three, digital backbone, Navy TACC, FSCC, Marine TACC, LFOC, SACC/HDC

Reference.
1.  U-DASC-PCL-5532, DASC Pocket Checklist
2.  MCWP 3-25.5, DASC Handbook
3.  Squadron SOP
4.  MCWP 3-16.3, Tactics, Techniques, and Procedures for the Field Artillery   Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
5.  JP 3-02.1 Joint Doctrine for Landing Forces Operations
6.  MCWP 3-40.3 MAGTF Communications System

3.14.5      CERTIFICATION (CERT) STAGE

3.14.5.1 Purpose.  To provide for certifications of Information Assurance Work Force personnel. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a certification are current prior to approving that certification. If prerequisite R-coded events are delinquent, the individual shall update those events.

3.14.5.2 General

Prerequisite.  None

Admin Notes.   Policies and rules for attaining and maintaining certifications are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements.  None

CERT-6260      4.0      *      B                                    L

Goal.  COMPTIA A+ Certified.

Requirement. Complete the required industry certification exam. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. Complete requirements in accordance with the reference.

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1.    DoD 8570.01M


CERT-6261        4.0        *        B                                    L

Goal. COMPTIA Network+ Certified.

Requirement. Complete the required industry certification exam. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. Complete requirements in accordance with the reference.

Prerequisite. None.
Ordnance. None.

Range. None

External Syllabus Support. None

Reference.
1.    DoD 8570.01M


CERT-6262        4.0        *        B                                    L

Goal. COMPTIA Security+ Certified.

Requirement. Complete the required industry certification exam. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. Complete requirements in accordance with the reference.

Prerequisite. None.
Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1.        DoD 8570.01M

3.15  MISSION ESSENTIAL TASK (MET) PHASE (7000)

3.15.1  Purpose.  This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

3.15.2  General

3.15.2.1  Prerequisite.  Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase.  For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

3.15.2.2  Admin Notes.  Prerequisites for this phase of training cannot be waived.  Multiple events can be trained at the same time as long as separate evaluations are being conducted.

3.15.2.3  Stages.  The following stages are included in the Mission Essential Task (MET) Phase of training.

PAR NO.          STAGE NAME
3.15.3   CONDITION (COND)

3.15.3  CONDITION (COND) STAGE

3.15.3.1  Purpose.  To train unit level teams in executing community specific MET(s) or MET preparatory events.

3.15.3.2  General

Prerequisite.  If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Admin Notes.  All events in this stage will require the following administrative/operational documents to be identified or created:

1.  Letter Of Intent (LOI)
2.  Personnel Roster
3.  Bill Of Material (BOM)
4.  Equipment Density List (EDL)

Crew Requirements.  This stage requires that all crew members and combat leaders be qualified/designated and proficient (current) in the position they are assigned for the following events.  Crews shall be task organized to meet the mission.

COND-7400      3.0      365      B,R,M   ASLT/DASC      E       L/S

Goal. Employ an ASLT.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ an ASLT to include the following:

1.        Conduct Mission Analysis
2.        Review Operational Planning Documents
3.        Identify required support personnel
4.        Identify equipment requirements
5.        Conduct a site survey
6.  Identify, create, and finalize administrative documents supporting the operation
7.  Coordinate with external agencies
8.  Conduct embarkation, and retrograde of personnel and equipment
9.  Maintain accountability of ASLT personnel
10.  Conduct ASLT operations

11. Conduct crew evaluations
12. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct ASLT operations supporting the DASC during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. A CMMR ASLT Crew
Instructor. C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None
Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  FSCC, air and fire support missions as defined by operational tempo level three, a DASC, S-1, S-2, S-3, S-4, S-6

Reference.
1.      U-DASC-PCL-5532, DASC Pocket Checklist
2.      MCWP 3-25.5, DASC Handbook
3.      Squadron SOP


COND-7405      3.0      365      B,R,M   ASE      E         L/S

Goal. Employ an ASE.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ an ASE to include the following:

1. Conduct Mission Analysis
2. Review Operational Planning Documents
3. Identify required support personnel
4. Identify equipment requirements
5. Conduct a site survey
6. Identify, create, and finalize administrative documents supporting the operation
7. Coordinate with external agencies
8. Conduct embarkation, and retrograde of personnel and equipment
9. Maintain accountability of ASE personnel
10. Conduct ASE operations
11. Conduct crew evaluations
12. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct ASE operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. A CMMR ASE Crew
Instructor. C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None
Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, air and fire support missions as defined by operational tempo three, FFCC/FSCC, and if required, a SACC and NTACC/HDC

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
3. MCWP 3-25.5, DASC Handbook
4. Squadron SOP

COND-7410     3.0     365     B,R,M          E        L/S

Goal. Employ a DASC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ a DASC to include the following:

1.  Conduct Mission Analysis
2.  Review Operational Planning Documents
3.  Identify required support personnel
4.  Identify equipment requirements
5.  Conduct a site survey
6.  Identify, create, and finalize administrative documents supporting the operation
7.  Coordinate with external agencies
8.  Conduct embarkation, and retrograde of personnel and equipment
9.  Maintain accountability of personnel
10. Emplace a DASC
11. Conduct DASC operations
12. Conduct crew evaluations
13. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct DASC operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. Minimum of two CMMR DASC Crews
Instructor. C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None
Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
3. MCWP 3-25.5, DASC Handbook
4. Squadron SOP


COND-7415     3.0     365     B,R,M          E        L/S

Goal. Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the DASC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operation plan's initiating order, conduct a RSOP for DASC operations to include the following:

1.  Conduct a Map Survey selecting primary and alternate sites
2.  Identify environmental concerns that may affect DASC communication
3.  Coordinate with the FSCC to provide DASC requirements
4.  Coordinate site security, camouflage, dispersion, and trafficability
5.  Identify locations for emplacement of communications and support equipment
6.  Coordinate priorities for equipment emplacement
7.  Identify echelon considerations
8.  Identify Advanced Party/RSOP Team
9.  Occupy the site

10. Emplace the DASC

Performance Standard. Perform the requirement items.  The RSOP team will be prepared to discuss decisions/actions.

Prerequisite.

Instructor. C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None
Range/Target Requirement.  None
External Syllabus Support.  MASS Detachment Commander, DASC Chief, security team, Representatives from the following sections: S-4, S-2, S-6

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
2. MCWP 3-16.3, TTP for the Field Artillery Cannon Battery
3. MCWP 3-25.5, DASC Handbook
4. Squadron SOP


COND-7420     3.0     365     B,R,M   DASC   E        L/S

Goal. Conduct Echelon Operations.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, conduct echelon operations to include the following:

1.  Continue DASC operations without pause or loss of situational awareness
2.  Checklists for the transfer of control are on hand and are utilized
3.  Deploy the echelon element to the new position
4.  Brief the operational crew concerning their duties for passage of control
5.  Establish and maintain DASC communications requirement
6.  Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted
7.  Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place
8.  Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft is verified
9.  Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft is verified
10.  Review status of all Tactical Air and Assault Support equests and ensure they are plotted and on hand
12.  Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets
13.  Maintain continuous coordination with adjacent and higher agencies during preparation for and transfer of OAS/AS control, if required
14.  Pass control of DASC functions to the echelon element
15.  Notify the TACC, FSCC, and other agencies, as necessary, control has been passed
16.  Recover the rear element into the DASC when echelon operations have concluded
17.  Debrief with the DASC OIC and DASC Chief

Performance Standard. Perform the requirement items listed to conduct echelon operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. Two CMMR DASC crews
Instructor. C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None
Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three, digital backbone, and if required, aircraft designated to provide an airborne DASC capability

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
2. MCWP 3-25.5, DASC Handbook
3. Squadron SOP

COND-7425        3.0        365        B,R,M  DASC   E          S/L

Goal. Conduct Phasing of Control Ashore.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, conduct phasing of control ashore to include the following:

1.  Conduct a Map Survey selecting primary and alternate sites
2.  Checklists for the transfer of control ashore are on hand and utilized
3.  Review the procedures delineated in the operation plan/other directives for the phasing of control ashore and keeps the Naval Tactical Air Control Center informed of current status
5.  Deploy ashore
6.  Brief the operational crew concerning their duties for the passage of control
7.  Establish and maintain DASC specific communication requirements
8.  Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted
9.  Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place
10.  Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft
11.  Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft
12.  Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand
13.  Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets
14.  Ensure all requirements have been met and then advise the TACC (afloat) and FSCC that the DASC is prepared for the phasing of control of OAS/AS ashore
15.  Ensure the preplanned sequence of phasing control of OAS/AS ashore is completed and the SAD acknowledges/produces any reports required
16.  Advise CLF when ready to assume control of all or a portion of direct air support ashore (specify OAS, Assault Support, Air Recce, EW) at a specified date and time
17.  Advise CLF that control has been transferred and the date/time group that transfer was accomplished
18.  Advise the TACC (afloat)/TADC (ashore) and FSCC that the DASC now has control referencing date and time (local)
19.  Maintain continuous coordination with adjacent and higher agencies
20.  Notify all adjacent agencies when transfer of control is completed
21.  As necessary, DASC/SACC liaison team provides further updates of information upon arrival at DASC site

Performance Standard. Perform the requirement items listed to conduct phasing control ashore during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. ASE, DASC
Instructor. C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None

Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three, digital backbone, Navy TACC, FSCC, Marine TACC, LFOC, SACC/HDC

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
2. MCWP 3-25.5, DASC Handbook
3. Squadron SOP
4.  MCWP 3-16.3, Tactics, Techniques, and Procedures for the Field Artillery   Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
5.  JP 3-02.1 Joint Doctrine for Landing Forces Operations
6.  MCWP 3-40.3 MAGTF Communications System


3.16  <u>AVIATION CAREER PROGRESSION MODEL (8000)</u>.

3.16.1  <u>Purpose</u>.  To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

> Marine Air Command and Control System (MACCS)
> Aviation Ground Support
> Joint Air Operations
> ACE Battle Staff
> MAGTF
> Seabased Operations
> Combatant Commander Organizations

3.16.2  <u>General</u>.  The ACPM is intended to be an integrated series of academic events contained within each phase of training.  Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages.  Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

    ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

    MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction.  In the future, courses may be consolidated or revised to meet changing requirements.  Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/Aviation%20Career%20Progression%20Model/Forms/All
Items.aspx

    Completed events shall be manually logged and tracked in M-SHARP.

    ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

| STAGE | TRNG CODE | T&R DESCRIPTION | | ACAD TIME | TO BE COMPLETED DURING |
|---|---|---|---|---|---|
| ACPM | 8000 | **MACCS** | | 1 | 3000 PHASE |
| ACPM | 8001 | MARINE AIR COMMAND AND CONTROL SYSTEM | | 4 | 3000 PHASE |
| ACPM | 8002 | TACTICAL AIR COMMAND CENTER (TACC) | | 4 | 3000 PHASE |
| ACPM | 8003 | DIRECT AIR SUPPORT CENTER (DASC) | | 4 | 3000 PHASE |
| ACPM | 8004 | TACTICAL AIR OPERATIONS CENTER (TAOC) | | 4 | 3000 PHASE |
| ACPM | 8005 | MARINE AIR TRAFFIC CONTROL (MATC) | | 4 | 3000 PHASE |
| ACPM | 8006 | LOW ALTITUDE AIR DEFENSE (LAAD) | | 4 | 3000 PHASE |

| ACPM | 8007 | Marine Unmanned Aerial Vehicle Squadron (VMU) | | 4 | 3000 PHASE |
|------|------|-----------------------------------------------|--|---|------------|
| ACPM | 8008 | MARINE WING COMMUNICATION SQUADRON (MWCS) | | 4 | 3000 PHASE |
| ACPM | 8020 | **ACE** | | 1 | 3000 PHASE |
| ACPM | 8021 | AVIATION OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8022 | CONTROL OF AIRCRAFT AND MISSILES | | 4 | 3000 PHASE |
| ACPM | 8023 | OFFENSIVE AIR SUPPORT (OAS) | | 4 | 3000 PHASE |
| ACPM | 8024 | ASSAULT SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8025 | AIR RECONNAISSANCE | | 4 | 3000 PHASE |
| ACPM | 8026 | ELECTRONIC WARFARE | | 4 | 3000 PHASE |
| ACPM | 8027 | ANTI-AIR WARFARE | | 4 | 3000 PHASE |
| ACPM | 8028 | AVIATION GROUND SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8040 | **THREAT** | | 1 | 2000 PHASE |
| ACPM | 8041 | SURFACE TO AIR THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8042 | FIXED WING THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8043 | ROTARY WING THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8044 | MISSILE AND UAS THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8060 | **MAGTF** | | 1 | 3000 PHASE |
| ACPM | 8061 | GROUND COMBAT OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8062 | FIRE SUPPORT COORDINATION IN THE GCE | | 4 | 3000 PHASE |
| ACPM | 8063 | MAGTF COMMAND AND CONTROL | | 4 | 3000 PHASE |
| ACPM | 8064 | MAGTF COMMUNICATIONS | | 4 | 3000 PHASE |
| ACPM | 8065 | PHASING CONTROL ASHORE | | 4 | 3000 PHASE |
| ACPM | 8066 | INFORMATION MANAGEMENT | | 4 | 3001 PHASE |
| ACPM | 8067 | UAS SUPPORT OF THE MAGTRF | | 4 | 3002 PHASE |
| ACPM | 8080 | **JOINT AIR OPERATIONS** | | 1 | 3000 PHASE |
| ACPM | 8081 | COMMAND AND CONTROL OF JOINT AIR OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8082 | THEATER AIR CROUND SYSTEM (TAGS) | | 4 | 3000 PHASE |
| ACPM | 8083 | JOINT FIRE SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8084 | CLOSE AIR SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8085 | JOINT TARGETING | | 4 | 3000 PHASE |
| ACPM | 8086 | NORTH ATLANTIC TREATY ORGANIZATION (NATO) | | 4 | 3000 PHASE |
| ACPM | 8087 | JOINT AIRSPACE CONTROL | | 4 | 3000 PHASE |
| ACPM | 8088 | COUNTERING AIR AND MISSILE THREATS | | 4 | 3000 PHASE |
| TOTAL ACPM STAGE | | | 40 | 145 | |

3.17  T&R SYLLABUS MATRIX

| STAGE | CODE | EVENT TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX |
| CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS) |
| 59CM | 1500 | Describe the characteristics of the Marine Air Command and Control System (MACCS). | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1501 | Measure circuit performance. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1502 | Establish secure RF communications using radios within the MACCS. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1503 | Describe proper handling and storage of classified materials. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1504 | Provide cyberwarfare technical support for MACCS specific equipment. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1505 | Repair common cables. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1506 | Demonstrate an earth ground installation. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1030 | Maintain the Communication System(CS). | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1031 | Maintain voice circuits within the Common Aviation Command and Control System (CAC2S) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1032 | Set-up the Communication System (CS) for operation. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1033 | Initialize voice circuits within the Common Aviation Command and Control System (CAC2S). | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1034 | Configure the CAC2S voice network. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1035 | Maintain the DSAN network. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENTCONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| span: DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX ||||||||||| GROUND/ACADEMIC EVENTS || SIM EVENTS || LIVE EVENTS |||||
| ACST | 1036 | Configure the Distributed Scalable AccessNet (DSAN). | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1037 | Configure AN/VRC-103. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1038 | Configure AN/VRC-104. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1039 | Maintain the AN/GRC-256A. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1040 | Maintain the AN/GRC-171B(V)4. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1041 | Operate common fill devices. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| ACST | 1042 | Describe the characteristics of antennas used within the Marine Air Command and Control Systems (MACCS). | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| TOTAL CORE INTRODUCTION STAGE (1000 PHASE EVENTS) |||||||||| 0 | 0 | | 0 | | 0 | | 0 | | | |
| CORE SKILLS TRAINING (2000 PHASE EVENTS) ||||||||||||||||||||
| SECURITY (SEC) ||||||||||||||||||||
| SEC | 2000 | Describe proper handling and storage of classified materials. | B,R,M | | L | - | - | - | 365 | | 0 | | 0 | | 2 | - | - | - | - |
| SEC | 2001 | Configure Network Security. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2000 | - | - | - |
| SEC | 2002 | State the physical security requirements for classified areas. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| SEC | 2003 | Extract key material information from EKMS/KMI COMSEC callout. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2000 | - | - | - |
| SEC | 2004 | Create a classified area physical security diagram. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2000,2002 | - | 2000, 2002 | - |
| SEC | 2005 | Ensure classified material handling procedures are followed. | B,M | | L | - | - | - | * | | 0 | | 0 | | 3 | 2000 | - | - | - |
| SEC | 2006 | Configure the Link Management System Multi Tactical Data Link | B | | L | - | - | - | * | | 0 | | 0 | | 4 | 2000 | - | - | - |

| STAGE | EVENT | | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENTCONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | (LMS-MT) | | | | | | | | | | | | | | | | | | |
| TOTAL SECURITY STAGE (SEC) | | | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 17 | | | | |
| FAMILIARIZATION (FAM) | | | | | | | | | | | | | | | | | | | | |
| FAM | 2020 | Measure Soil Resistivity. | | B,RM | | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| FAM | 2021 | Operate the handheld GPS | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| FAM | 2022 | Describe the characteristics of unit T/E generators. | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| FAM | 2023 | Describe TACLANE | | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| TOTAL FAMILIARIZATION STAGE (FAM) | | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 8 | | | | |
| COMPUTER AND NETWORK TRAINING (CANT) | | | | | | | | | | | | | | | | | | | | |
| CANT | 2040 | Explain application, data, and host security. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2041 | Perform account management. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| CANT | 2042 | Explain Network Security | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2043 | Explain Network Operational Security. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2044 | Explain threats and vulnerabilities. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2045 | Explain computer and network cryptography. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2046 | Explain access control and identity management security measures. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| TOTAL COMPUTER AND NETWORK STAGE (CANT) | | | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 26 | | | | |
| COLLATERAL DUTY (CD) | | | | | | | | | | | | | | | | | | | | |
| CD | 2060 | Identify the Maintenance Calibrations program. | | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2100 | - | - | - |
| CD | 2061 | Identify the Maintenance | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |

The table title is: **DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX**

| STAGE | CODE | EVENT TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | |
| | | Modification program. | | | | | | | | | | | | | | | | | |
| CD | 2062 | Manage the Tool Control program. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2063 | Identify the Maintenance Publication Library | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2064 | Identify major Maintenance Safety Program elements. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2065 | Identify the key elements of the Maintenance Embarkation Program. | B | | L | - | - | - | * | | 0 | | 0 | | 3 | 2100 | - | - | - |
| CD | 2066 | Identify the equipment record jacket. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2100 | - | - | - |
| CD | 2067 | Identify Quality Control Procedures. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2068 | Identify the Maintenance Training program. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| TOTAL COLLATERAL DUTY STAGE (CD) | | | | | | | | | | 0 | 0 | 0 | 0 | 9 | 17 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | | | | | | | | | | |
| MMGT | 2100 | Complete Maintenance Management Program indoctrination training. | B | | G | - | - | - | * | | 40 | | 0 | | 0 | - | - | - | - |
| MMGT | 2101 | Conduct an SL-3 inventory. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2102 | Initiate a service request. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| MMGT | 2103 | Create a Preventive Maintenance Checks and Services (PMCS) schedule. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| MMGT | 2104 | Submit a Product Quality Deficiency Report (PQDR) | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2105 | Identify the SECREP management process. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2102 | - | - | - |
| MMGT | 2106 | Explain equipment disposition procedures. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | 2101, 2102 | - | - | - |

| STAGE | EVENT | | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| MMGT | 2107 | Reconcile Global Combat Support System (GCSS) reports. | | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| MMGT | 2108 | Verify inventory control procedures are implemented. | | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2102 | - | - | - |
| MMGT | 2109 | Draft a Table of organization and equipment (TO&E) Change Request (TOECR). | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2110 | Identify the Marine Corps Urgent Needs Process (MCUNP) | | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2111 | Induct new equipment into service. | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2112 | Identify the types of funds. | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TOTAL MMGT STAGE (MMGT) | | | | | | | | | | | 1 | 40 | 0 | 0 | 12 | 25 | | | | |
| DEPLOYMENT (DEPL) | | | | | | | | | | | | | | | | | | | | |
| DEPL | 2130 | Write a packing list. | | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2131 | Extract key information from communication planning documents. | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2132 | Determine supply support requirements. | | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 2133 | Identify power requirements. | | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | 2022 | - | - | - |
| DEPL | 2134 | Fill out Logistics Support Request | | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| DEPL | 2135 | Conduct a site survey. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2022, 2133 | - | 2020 | - |
| DEPL | 2136 | Write an Equipment Density List (EDL) | | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 2137 | Develop an embarkation plan. | | B | | L | - | - | - | * | | 0 | | 0 | | 8 | 2134, 2136 | - | - | - |
| DEPL | 2138 | Complete a Bill of Material (BOM) request. | | B | | L | - | - | - | * | | 0 | | 0 | | 8 | 2132 | - | - | - |
| DEPL | 2139 | Describe common agency doctrinal nets. | | B | | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| DEPL | 2140 | Identify spectrum management procedures. | | B,R,M, | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |

DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENTCONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX |
| DEPL | 2141 | Idenify communication service requirements. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2142 | Identify crew requirements and write a crew schedule. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2143 | Develop data recovery management plan. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| TOTAL DEPLOYMENT STAGE (DEPL) | | | | | | | | | | 0 | 0 | 0 | 14 | | 54 | | | | |
| AVIATION COMMUNICATION (AVCOMM) | | | | | | | | | | | | | | | | | | | |
| AVCOMM | 2200 | Erect organic antennas | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| AVCOMM | 2201 | Configure the AN/VRC-104 | B,R | | L | - | - | - | * | | 0 | | 0 | | 1 | 2001 | - | - | - |
| AVCOMM | 2202 | Configure the AN/VRC-104 | B,R | | L | - | - | - | * | | 0 | | 0 | | 1 | 2001 | - | - | - |
| AVCOMM | 2203 | Configure the AN/VRC-104 | B,R | | L | - | - | - | * | | 0 | | 0 | | 3 | 2001 | - | - | - |
| AVCOMM | 2204 | Interface an external radio with the CS. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| AVCOMM | 2205 | Configure Distributed Scalable Access Network (DSAN) subsystem for a multiple vehicle system. | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | 2041, 2250, 2251, 2252, 2253, 2254 | - | - | - |
| AVCOMM | 2206 | Conduct maintenance on the AN/VRC-103 | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2001,2201 | - | - | - |
| AVCOMM | 2207 | Conduct maintenance on the AN/VRC-104 | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2001,2201 | - | - | - |
| AVCOMM | 2208 | Maintain Power Distribution subsystem in the CS | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| AVCOMM | 2209 | Demonstrate field expedient antenna techniques. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| AVCOMM | 2210 | Configure the AN/VRC-103 radio for enhanced operation. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2001, 2021 | - | - | - |
| AVCOMM | 2211 | Configure AN/VRC-104 radio for Automatic Link Establishment (ALE). | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 1 | - | - | - | - |
| AVCOMM | 2212 | Conduct maintenance on the AN/PRC-153 | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 1 | - | - | - | - |
| AVCOMM | 2213 | Conduct maintenance on the AN/VRC-110 | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2276, 2277, 2278 | - | - | - |
| AVCOMM | 2214 | Conduct maintenance on the AN/VRC-112 | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS | | | SIM EVENTS | | LIVE EVENTS | PREREQ | NOTES | CHAIN | EVENTCONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | # | TIME | # | TIME | # | TIME | | | | |
| AVCOMM | 2215 | Conduct maintenance on the AN/VRC-148. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 1 | - | - | - | - |
| AVCOMM | 2216 | Maintain the Distributed Scalable Access Network (DSAN) within the CS. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| AVCOMM | 2217 | Conduct maintenance on the CS. | B,R, | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| TOTAL AVIATION COMMUNICATION STAGE (AVCOMM) | | | | | | | | | | 0 | 0 | | 18 | | 42 | | | | |
| TACTICAL DATA LINKS (TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 2800 | Identify the purpose of documents that enable Tactical Data Link operations | B,M,R | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | 2003 | - |
| TDL | 2801 | Identify TACC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2802 | Identify TAOC and EW/C voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2803 | Identify DASC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2805 | Identify LAAD voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2806 | Identify MATC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | | | | |
| TDL | 2808 | Describe the Joint Data Network | B,RM | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | | | | |
| TDL | 2809 | Describe the Multi-Tactical Data Link (TDL) Interface. | B,R,M | | G | - | - | - | 1095 | | 20 | | 0 | | 0 | | | | |
| TDL | 2826 | State the characteristcs of Cooperative Engagement Capability. | B | | G | - | - | - | 0 | | 10 | | 0 | | 0 | | | | |
| TOTAL TACTICAL DATA LINKS (TDL) | | | | | | | | | | 9 | 100 | 0 | 0 | 0 | 0 | | | | |
| TOTAL MISSION SKILL (2000 PHASE EVENTS) | | | | | | | | | | 88 | 140 | 0 | 0 | 0 | 189 | | | | |
| MISSION SKILL TRAINING (3000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| COMPUTER AND NETWORK TRAINING (CANT) | | | | | | | | | | | | | | | | | | | |
| CANT | 3000 | Plan a Local Area Network | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |
| CANT | 3001 | Administer data system host security measures. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | GROUND/ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENTCONV |
|-------|------|-------|-----|---|------|---|--------|------|-------|---|---|---|---|---|---|--------|-------|-------|-----------|
| DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
| CANT | 3002 | Perform network management. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |
| CANT | 3003 | Design network architecture. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2040, 2042, 2043, 2044, 2045, 2046 | - | 3000, 2042, 2043, 2044, 2045, 2046, 2040 | - |
| TOTAL COMPUTER AND NETWORK TRAINING SKILLS STAGE (CANT) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 20 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | | | | | | | | | | |
| MMGT | 3020 | Ensure the corrective maintenance repair process is being conducted. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2100, 2101, 2102, 2103, 2104, 2105, 2107, 2108 | - | - | - |
| MMGT | 3021 | Inspect maintenance functional areas. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 16 | 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100 | - | 2067 | - |
| MMGT | 3022 | Validate SECREP assets in preparation for float re-computation conference. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2102, 2105 | - | - | - |
| TOTAL MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 24 | | | | |
| DEPLOYMENT (DEPL) | | | | | | | | | | | | | | | | | | | |
| DEPL | 3040 | Prepare system for embark. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2101, 2130 | - | - | - |
| DEPL | 3041 | Identify Operational Requirements. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142 | - | 2000, 2002, 2004 | - |
| DEPL | 3042 | Develop disaster recovery plan. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2000, 2002, 2022, 2143 | - | 2143 | - |

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | DEVICE # | DEVICE OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | GROUND/ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEPL | 3043 | Design a site layout | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140 | - | 2000, 2002, 2004 | - |
| DEPL | 3044 | Develop a Communications Plan for a MACCS agency. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2139 | - | - | - |
| DEPL | 3045 | Plan for the deployment of Tactical Data Systems. | B,M,R | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | 3041 | - |
| DEPL | 3046 | Develop a Communications Plan for the MACCS | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | - | - | 2801, 2802, 2803, 2805, 2806, 3044 | - |
| DEPL | 3047 | Conduct post deployment analysis. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2143, 3042 | - | - | - |
| **TOTAL DEPLOYMENT (DEPL)** | | | | | | | | | | 0 | 0 | 0 | 0 | 8 | 52 | | | | |
| **AVIATION COMMUNICATION STAGE (AVCOMM)** | | | | | | | | | | | | | | | | | | | |
| AVCOMM | 3100 | Set-up the Communications System (CS) | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2000, 2001, 2020, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208 | | | |
| AVCOMM | 3101 | Verify voice communications are operational. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2000, 2001, 2020, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3100 | | | |
| AVCOMM | 3102 | Deploy the CS in support of operational requirements. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 12 | 2000, 2001, 2020, 2200, 2201, 2202, 2203, 2204, 2205, | | 3100, 3101 | |

| STAGE | CODE | EVENT TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3100, 3101 | | | |
| TOTAL AVIATION COMMUNICATION (AVCOMM) | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 20 | | | | |
| TOTAL MISSION SKILL PHASE (3000 PHASE) | | | | | | | | | | 18 | 0 | 0 | 0 | 0 | 116 | | | | |
| CORE PLUS SKILL TRAINING (4000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| AVIATION COMMUNICATION (AVCOMM) | | | | | | | | | | | | | | | | | | | |
| AVCOMM | 4218 | Configure AN/GRC-171B(V)4 for operations. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| AVCOMM | 4219 | Configure AN/GRC-256A for operations. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| AVCOMM | 4220 | Conduct maintenance on the AN/GRC-171B(V)4 | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| AVCOMM | 4221 | Conduct maintenance on the AN/GRC-256A | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TOTAL AVIATION COMMUNICATION (AVCOMM) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 6 | | | | |
| TACTICAL DATA LINK(TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 4815 | State the characteristics of link 11. | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4816 | State the characteristics of Link 11B | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4818 | State the characteristics of Link 16 | B | | G | - | - | - | * | | 3 | | 0 | | 0 | - | - | - | - |
| TDL | 4819 | State the characteristics of the Joint Range Extension Application Protocol (JREAP). | B | | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4820 | Identify mission essential segments, sets, and fields within the OPTASKLINK. | B | | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4821 | State the purpose of Interface Coordination procedures. | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4823 | State the characteristics of the Variable Message Format (VMF). | B | | G | - | - | - | * | | 1 | | 0 | | 0 | | | | |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENTCONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |
|  |  | DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | |
| TDL | 4824 | Identify elements of Combat Net Radios (CNR) Networks. | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4825 | Identify elements of the OPTASK LINK Combat Net Radios (CNR) Segment/Supplyment. | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4827 | Configure the Joint Range Extension (JRE) | B | | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4828 | Operate a Joint Range Extension (JRE) Gateway | B | | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4829 | Configure the Air Defense System Integrator (ADSI) | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TDL | 4831 | Setup Link 11 equipment. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TDL | 4832 | Operate Link 11. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4833 | Setup Link 11B Equipment. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TDL | 4834 | Operate Link 11B | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| TDL | 4849 | Conduct tactical data link planning for an agency. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4850 | Conduct tactical data link coordination for an agency. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4851 | Perform track data coordination for a track producing agency. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4852 | Perform Link Management Functions. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4853 | Perform as the Track Data coordinator. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4854 | Perform Interface Control Officer planning functions. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4855 | Perform Interface Control Officer execution functions. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TOTAL TDL (TDL) SKILLS STAGE | | | | | | | | | | 11 | 17 | 0 | 0 | 12 | 72 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | | | | | | | | | | |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENTCONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX |||||||||||||||||||
| MMGT | 4900 | Assess maintenance shop performance. | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| MMGT | 4901 | Assess maintenance section funding requirements. | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| colspan=10 align=center | TOTAL MAINTENANCE MANAGEMENT (MMGT) | 0 | 0 | 0 | 0 | 2 | 6 | | | | |
| colspan=10 align=center | TOTAL CORE PLUS SKILL PHASE (4000 PHASE) | 11 | 17 | 0 | 0 | 18 | 84 | | | | |
| colspan=10 align=center | TOTAL 2000, 3000, AND 4000 PHASE | 21 | 157 | 0 | 0 | 114 | 389 | | | | |
| INSTRUCTOR UNDER TRAINING (IUT) |||||||||||||||||||
| IUT | 5000 | Instroduce principals of instruction. | - | | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5010 | Describe individual T&R requirements. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5020 | Perform T&R administration. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5100 | Describe the Aviation Training & readiness Program. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5110 | Conduct instructor evaluation. | - | - | - | - | - | - | - | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5120 | Perform T&R administration. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5130 | Develop a training plan. | - | - | - | - | - | - | - | | 0 | | 0 | | 0 | - | - | - | - |
| colspan=10 align=center | TOTAL INSTRUCTOR UNDER TRAINING (IUT) | 0 | 0 | 0 | 0 | 0 | 0 | | | | |

| STAGE | EVENT | | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENTCONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DESIGNATION (DESG) | | | | | | | | | | | | | | | | | | | | |
| DESG | 6100 | Designation as a Maintenance Safety NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2064, 2100 | - | - | - |
| DESG | 6101 | Designation as a Maintenance HAZMAT NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2064, 2100 | - | - | - |
| DESG | 6102 | Designation as a Maintenance Publications NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2063, 2100 | - | - | - |
| DESG | 6103 | Designation as a Maintenance Tools NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2062, 2100 | - | - | - |
| DESG | 6104 | Designation as Maintenance Calibrations NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2060, 2100 | - | - | - |
| DESG | 6105 | Designation as Maintenance Modifications NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2061,2100 | | | |
| DESG | 6106 | Designation as Maintenance Embarkation NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2065, 2100 | - | - | - |
| DESG | 6107 | Designation as a Maintenance Management NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2100, 2102, 2107 | - | - | - |
| DESG | 6108 | Designation as Maintenance Training NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2068, 2100 | - | - | - |
| DESG | 6109 | Designation as a AVCOMM Maintenance Quality Control (QC) NCO. | | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2067, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2200, 2201, 2202, 2203, 2204, | | | |

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | DEVICE # | DEVICE OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | GROUND/ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3000, 3001, 3040, 3100, 3101, 8000 | | | |
| DESG | 6250 | Designation as Information Assurance Technician Level I (IAT I). | B | - | - | - | - | - | * | | 0 | | 0 | | 0 | | | | |
| DESG | 6253 | Designation as Information Assurance Manager Level I (IAM I). | B | - | - | - | - | - | * | | 0 | | 0 | | 0 | | | | |
| DESG | 6320 | Designation as Basic Instructor. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| DESG | 6321 | Designation as Senior Instructor. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| DESG | 6343 | Designation as Aviation Communications Maintenance Chief (ACMC), DASC. | B | - | - | - | - | - | * | | 0 | | 0 | | 0 | | | | |
| TOTAL DESIGNATION STAGE (DESG) | | | | | | | | | | 0 | 0 | 0 | 0 | 15 | 13 | | | | |
| CERTIFICATION (CERT) | | | | | | | | | | | | | | | | | | | |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | | | | |
| CERT | 6260 | COMPTIA A+ Certification | B | - | L | - | - | - | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| CERT | 6261 | COMPTIA Network+ Certification | B | - | L | - | - | - | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| CERT | 6262 | COMPTIA Security+ Certification | B | - | L | - | - | - | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| TOTAL CERTIFICATION STAGE | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 12.0 | | | | |

(DASC MAINTENANCE MOS 5939 T&R SYLLABUS MATRIX)

3.18  <u>ADDITIONAL MATRICES</u>.  None

3.19  <u>ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS</u>.  None

3.20  <u>AVIATION TRAINING FORMS (ATF)</u>.  A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3
website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx

3.21  <u>TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM)</u>.  None

CHAPTER 4

TACTICAL DATA SYSTEMS TECHNICIAN/5974
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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CHAPTER 4

TACTICAL DATA SYSTEMS ADMINISTRATOR/5974
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

4.0  TACTICAL DATA SYSTEMS ADMINISTRATOR INDIVIDUAL TRAINING AND READINESS
REQUIREMENTS.  This T&R Syllabus is based on specific goals and performance standards designed to ensure
individual proficiency in Core and Mission Skills.  The goal of this chapter is to develop individual and unit war
fighting capabilities.

4.1  5974 TRAINING PROGRESSION MODEL.  This model represents the recommended training progression for
the average (Tactical Data Systems Administrator) crewmember.  Units should use the model as a point of departure
to generate individual training plans.
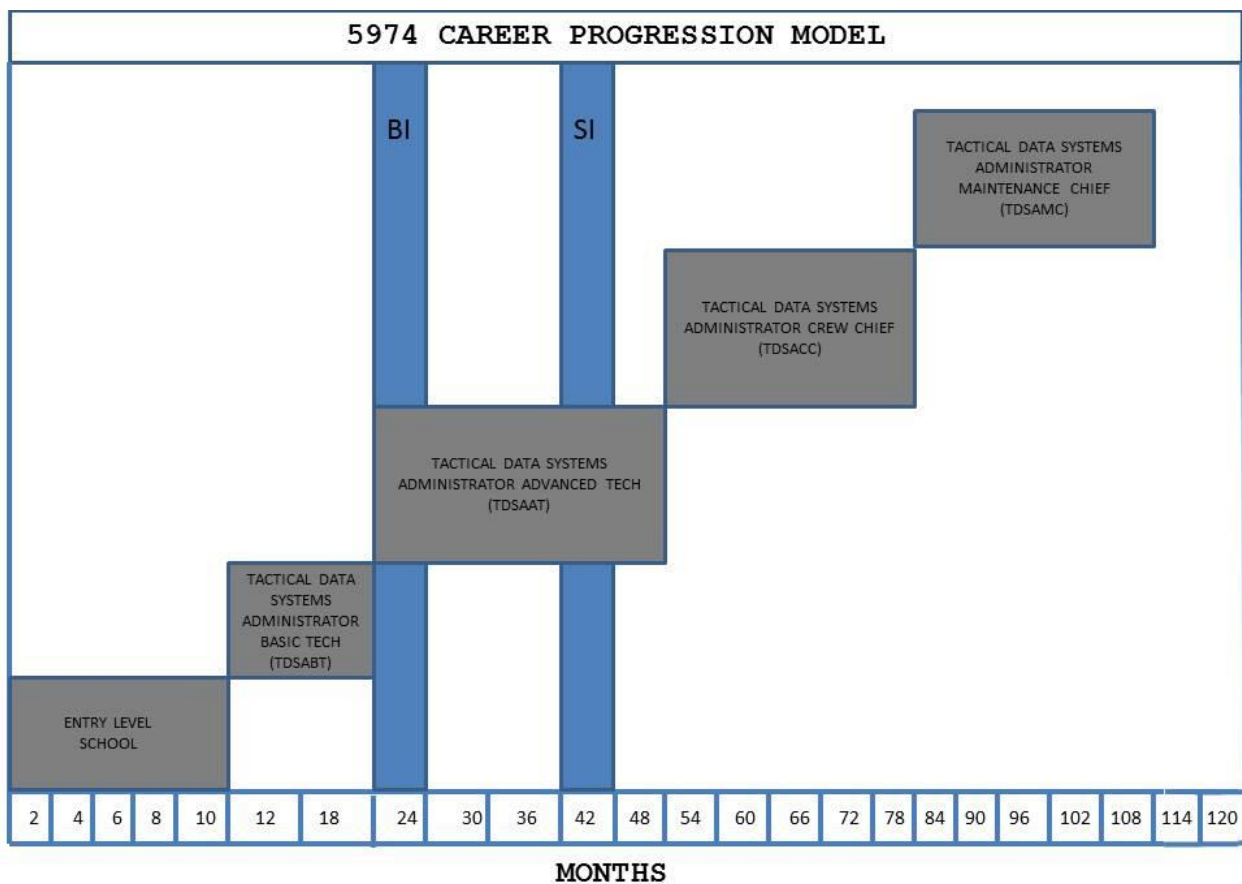


4.2  ABBREVIATIONS

| DASC MAINTENANCE MOS 5974 | |
|---|---|
| CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS | |
| CORE SKILL (2000 Phase) | |
| SEC | SECURITY |
| FAM | FAMILIARIZATION |

| | |
|---|---|
| CANT | COMPUTER AND NETWORK TRAINING |
| CD | COLLATERAL DUTIES |
| MMGT | MAINTENANCE MANAGEMENT |
| DEPL | DEPLOYMENT |
| SYSAD | SYSTEM ADMINISTRATION |
| TDL | TACTICAL DATA LINKS |
| **MISSION SKILL (3000 Phase)** | |
| CANT | COMPUTER AND NETWORK TRAINING |
| MMGT | MAINTENANCE MANAGEMENT |
| DEPL | DEPLOYMENT |
| SYSAD | SYSTEM ADMINITRATION |
| **CORE PLUS (4000 Phase)** | |
| SYSAD | SYSTEM ADMINITRATION |
| TDL | TACTICAL DATA LINKS |
| MMGT | MAINTENANCE MANAGEMENT |
| **INSTRUCTOR (5000 Phase)** | |
| IUT | INSTRUCTOR UNDER TRAINING |
| BI | BASIC INSTRUCTOR |
| SI | SENIOR INSTRUCTOR |
| **CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)** | |
| CD | COLLATERAL DUTIES |
| DESG | DESIGNATIONS |
| QUAL | QUALIFICATIONS |

4.3 <u>DEFINITIONS</u>

| TERM | DEFINITION |
|---|---|
| **Core Model** | The Core Model is the basic foundation or standardized format by which all T&Rs are constructed. The Core model provides the capability of quantifying both unit and individual training requirements and measuring readiness. This is accomplished by linking community Mission Statements, Mission Essential Task Lists, Output Standards, Core Skill Proficiency Requirements and Combat Leadership Matrices |
| **Core Skill** | Fundamental, environmental, or conditional capabilities required to perform basic functions. These basic functions serve as tactical enablers that allow crews to progress to the more complex Mission Skills. Primarily 2000 Phase events but may be introduced in the 1000 Phase. |
| **Mission Skill** | Mission Skills enable a unit to execute a specific MET. They are comprised of advanced event(s) that are focused on MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness developed during Core Skill training. 3000 Phase events. |
| **Core Plus Skill** | Training events that can be theater specific or that have a low likelihood of occurrence. They may be Fundamental, environmental, or conditional capabilities required to perform basic functions. 4000 Phase events. |
| **Core Plus Mission** | Training events that can be theater specific or that have a low likelihood of occurrence. They are comprised of advanced event(s) that are focused on Core Plus MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness. 4000 Phase events. |

| | |
|---|---|
| **Core Skill Proficiency (CSP)** | CSP is a measure of training completion for 2000 Phase events. CSP is attained by executing all events listed in the Attain Table for each Core Skill. The individual must be simultaneously proficient in all events within that Core Skill to attain CSP. |
| **Mission Skill Proficiency (MSP)** | MSP is a measure of training completion for 3000 Phase events. MSP is attained by executing all events listed in the Attain Table for each Mission Skill. The individual must be simultaneously proficient in all events within that Mission Skill to attain MSP. MSP is directly related to Training Readiness. |
| **Core Plus Skill Proficiency (CPSP)** | CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP |
| **Core Plus Mission Proficiency (CPMP)** | CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP |

4.4 <u>INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS</u>

4.4.1 Management of individual CSP/MSP/CPSP/CPMP serves as the foundation for developing proficiency requirements in DRRS.

4.4.2      Individual CSP is a "Yes/No" status assigned to an individual by Core Skill. When an individual attains and maintains CSP in a Core Skill, the individual counts towards CMMR Unit CSP requirements for that Core Skill.

4.4.3      Proficiency is attained by individual Core/Mission/Core Plus skill where the training events for each skill are determined by POI assignment.

4.4.4      Once proficiency has been attained by Core/Mission/Core Plus Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the maintain table and in the "Maintain POI" column of the T&R syllabus matrix. An individual maintains proficiency by individual Core/Mission/Core Plus Skill.

**\*Note\***
Individuals may be attaining proficiency in some
Core/Mission/Core Plus Skills while maintaining proficiency
in other Core/Mission/Core Plus Skills.

4.4.5      Once proficiency has been attained, should one lose proficiency in an event in the "Maintain POI" column, proficiency can be re-attained by demonstrating proficiency in the delinquent event. Should an individual lose proficiency in all events in the "Maintain POI" column by Core/Mission/Core Plus Skill, the individual will be assigned to the Refresher POI for that Skill. To regain proficiency for that Core/Mission/Core Plus Skill the individual must demonstrate proficiency in all R-coded events for that Skill.

**\*Note\***
See Chapter 2 in the Program Manual for amplifying
information on POI updating.

| DASC MAINTENANCE MOS 5974 | | | | | |
|---|---|---|---|---|---|
| **ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI** | | | | | |
| **ATTAIN PROFICIENCY** | | | | **MAINTAIN** | |
| **BASIC POI** | | **REFRESHER POI** | | **PROFICIENCY** | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| **CORE SKILL (2000 Phase)** | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| SEC | 2000R | SEC | 2000R | SEC | 2000R |
| | 2001R | | 2001R | | |
| | 2002R | | 2002R | | 2002R |
| | 2003R | | 2003R | | 2003R |
| | 2004R | | 2004R | | 2004R |
| | 2005R | | 2005R | | |
| | 2006 | | | | |
| FAM | 2020R | FAM | 2020R | FAM | 2020R |
| | 2021 | | | | |
| | 2022 | | | | |
| | 2023 | | | | |
| CANT | 2040R | CANT | 2040R | CANT | 2040R |
| | 2041R | | 2041R | | 2041R |
| | 2042R | | 2142R | | 2042R |
| | 2043R | | 2043R | | 2043R |
| | 2044R | | 2044R | | 2044R |
| | 2045R | | 2045R | | 2045R |
| | 2046R | | 2046R | | 2046R |
| CD | 2060 | CD | | CD | |
| | 2061 | | | | |
| | 2062 | | | | |
| | 2063 | | | | |
| | 2064 | | | | |
| | 2065 | | | | |
| | 2066 | | | | |
| | 2067R | | 2067R | | |
| | 2068 | | | | |
| MMGT | 2100 | MMGT | | MMGT | |
| | 2101 | | | | |
| | 2102 | | | | |
| | 2103 | | | | |
| | 2104 | | | | |
| | 2105 | | | | |
| | 2106 | | | | |
| | 2107R | | 2285R | | |
| | 2108 | | | | |
| | 2109 | | | | |
| | 2110R | | 2110R | | |
| | 2111 | | | | |
| | 2112 | | | | |
| DEPL | 2130R | DEPL | 2130R | DEPL | |

| | | | | | |
|---|---|---|---|---|---|
| | 2131 | | | | |
| | 2132 | | | | |
| | 2133R | | 2133R | | |
| | 2134 | | | | |
| | 2135R | | 2135R | | 2135R |
| | 2136 | | | | |
| | 2137 | | | | |
| | 2138 | | | | |
| | 2139 | | | | |
| | 2140R | | 2140R | | 2140R |
| | 2141 | | | | |
| | 2142 | | | | |
| | 2143R | | 2143R | | 2143R |
| SYSAD | 2250R | SYSAD | 2250R | SYSAD | |
| | 2251R | | 2251R | | |
| | 2252R | | 2252R | | |
| | 2253R | | 2253R | | |
| | 2254R | | 2254R | | |
| | 2255R | | 2255R | | |
| | 2256 | | | | |
| | 2257 | | | | |
| | 2258 | | | | 2258 |
| | 2259R | | 2259R | | 2259R |
| | 2276 | | | | |
| | 2277 | | | | |
| | 2278R | | 2278R | | 2278R |
| | 2279R | | 2279R | | 2279R |
| | 2280 | | | | |
| | 2281 | | | | |
| | 2282R | | 2282R | | 2282R |
| | 2283R | | 2283R | | 2283R |
| | 2284 | | | | |
| | 2285 | | | | |
| | 2286R | | 2286R | | 2286R |
| | 2287R | | 2287R | | 2287R |
| TDL | 2800 | TDL | | TDL | 2800 |
| | 2801 | | | | 2801 |
| | 2802 | | | | 2802 |
| | 2803 | | | | 2803 |
| | 2805 | | | | 2805 |
| | 2806 | | | | 2806 |

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|---|---|---|---|---|---|
| | 2808 | | | | |
| | 2809 | | | | 2809 |
| | 2826 | | | | |
| | 2827 | | | | |
| | 2828 | | | | |
| | 2829 | | | | |
| | 2830 | | | | |
| | 2831 | | | | |
| | 2832 | | | | |
| | 2835 | | | | |
| | 2836 | | | | |
| | 2837 | | | | |
| | 2838 | | | | |
| | 2839 | | | | |
| | 2840 | | | | |
| | 2841 | | | | |
| | 2842 | | | | |
| | 2843 | | | | |
| | 2845 | | | | |
| | 2846 | | | | |
| | 2847 | | | | |
| | 2848 | | | | |
| MISSION SKILL (3000 Phase) | | | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| CANT | 3000R | CANT | 3000R | CANT | 3000R |
| | 3001R | | 3001R | | 3001R |
| | 3002R | | 3002R | | 3002R |
| | 3003R | | 3003R | | 3003R |
| MMGT | 3020 | MMGT | | MMGT | 3020 |
| | 3021R | | 3021R | | 3021R |
| | 3022 | | | | |
| DEPL | 3040R | DEPL | 3040R | DEPL | 3040R |
| | 3041R | | 3041R | | 3041R |
| | 3042R | | 3042R | | 3042R |
| | 3043R | | 3043R | | 3043R |
| | 3044R | | 3044R | | 3044R |
| | 3045R | | 3045R | | 3045R |
| | 3046R | | 3046R | | 3046R |
| | 3047R | | 3047R | | 3047R |
| SYSAD | 3144R | SYSAD | 3144R | SYSAD | 3144R |
| | 3145R | | 3145R | | 3145R |

| 3146R | | 3146R | | 3146R |
| 3147R | | 3147R | | 3147R |
| 3148R | | 3148R | | 3148R |

| CORE PLUS (4000 Phase) | | | | | |
|---|---|---|---|---|---|
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| SYSAD | 4260 | SYSAD | | SYSAD | |
| | 4261 | | | | |
| | 4262 | | | | |
| | 4263 | | | | |
| | 4264 | | | | |
| | 4265 | | | | |
| | 4266 | | | | |
| | 4267 | | | | |
| | 4268 | | | | |
| | 4269 | | | | |
| | 4270 | | | | |
| | 4271 | | | | |
| | 4272 | | | | |
| | 4273 | | | | |
| | 4274 | | | | |
| | 4275 | | | | |
| | 4288 | | | | 4288 |
| | 4910 | | | | 4910 |
| | 4911 | | | | 4911 |
| | 4912 | | | | 4912 |
| | 4913 | | | | 4913 |
| | | | | | |
| TDL | 4820 | TDL | | TDL | |
| | 4821 | | | | |
| | 4824 | | | | |
| | 4825 | | | | |
| | 4833 | | | | |
| | 4834 | | | | |
| | 4849 | | | | |
| | 4850 | | | | |
| | 4851 | | | | |
| | 4852 | | | | |
| | 4853 | | | | |
| | 4854 | | | | |
| | 4855 | | | | |
| "S" PREFIX AND BLUE FONT = SIMULATOR EVENT | | | | | |

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│                         │
└─────────────────────────┘

4.5  REQUIREMENT, CERTIFICATION, QUALIFICATION AND DESIGNATION TABLES.  The tables below delineate T&R events required to be completed to attain proficiency for select certifications, qualifications and designations. In addition to event requirements, all required stage lectures, briefs, squadron training, prerequisites, and other criteria shall be completed prior to completing final events. Certification, qualification and designation letters signed by the commanding officer shall be placed in training Performance Records and NATOPS.  See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

4.5.1        Instructor Designations

| DASC MAINTENANCE MOS 5974 INSTRUCTOR DESIGNATIONS (5000 Phase) | |
| --- | --- |
| INSTRUCTOR DESIGNATION | EVENTS |
| BASIC INSTRUCTOR (BI) | 5000, 5010, 5020 |
| SENIOR INSTRUCTOR (SI) | 5100, 5110, 5120, 5130, |

4.5.2        Requirements, Certifications, Qualifications, and Designations

| DASC MAINTENANCE MOS 5974 | |
| --- | --- |
| REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase) | |
| RCQD | EVENTS |
| TACTICAL DATA SYSTEMS ADMINISTRATOR BASIC TECHNICIAN (TDSABT) (QUAL 6560) | 2000, 2001, 2020, 2021, 2040, 2041, 2100, 2101, 2102, 2103, 2130, 2250, 2251, 2252, 2256, 2257, 2258, 2276, 2277, 2278, 2280, 2281, 2282, 2284, 2285, 2286, 3040 |
| TACTICAL DATA SYSTEMS ADMINISTRATOR ADVANCED TECHNICIAN (TDSAAT) (QUAL 6561) | 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2800, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2845, 2846, 2847, 2848, 3000, 3001, 3040, 3144, 3145, 3146, 3147, 8000 |
| MAINTENANCE SAFETY NCO (DESG 6100) | 2064, 2100 |
| MAINTENANCE HAZMAT NCO (DESG 6101) | 2064, 2100 |
| MAINTENANCE PUBLICATIONS NCO (DESG 6102) | 2063, 2100 |
| MAINTENANCE TOOLS NCO (DESG 6103) | 2062, 2100 |
| MAINTENANCE CALIBRATIONS NCO (DESG 6104) | 2060, 2100 |
| MAINTENANCE MODIFICATIONS NCO (DESG 6105) | 2061, 2100 |
| MAINTENANCE EMBARK NCO (DESG 6106) | 2065, 2100 |
| MAINTENANCE MANAGEMENT (DESG 6107) | 2100, 2102, 2107 |
| MAINTENANCE TRAINING NCO (DESG 6108) | 2068, 2100 |
| QUALITY CONTROL COLLATERAL NCO  (DESG 6110) | 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2067, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 3000, 3001, 3040, 3100, 3101 |
| INFORMATION ASSURANCE TECHNICIAN LEVEL I (IAT I)(DESG 6250) | |
| INFORMATION ASSURANCE TECHNICIAN LEVEL II (IAT II)(DESG 6250) | |

| INFORMATION ASSURANCE MANAGER LEVEL I (IAM I) (DESG 6253) | |
|---|---|
| BASIC INSTRUCTOR (BI) (DESG 6320) | 5000, 5010, 5020 |
| SENIOR INSTRUCTOR (SI) (DESG 6321) | 5000, 5010, 5020, 5100, 5110, 5120, 5130 |

4.6  5974 PROGRAMS OF INSTRUCTION (POI).  These tables reflect average time-to-train versus the minimum to maximum time-to-train parameters in the Training Progression Model.

4.6.1  Basic POI

| DASC MAINTENANCE 5974 BASIC POI | | |
|---|---|---|
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |
| 1-33 | CORE SKILL INTRODUCTION TRAINING | MCCES |
| 34-58 | CORE SKILL TRAINING | TACTICAL SQUADRON |
| 59-82 | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| 83-88 | CORE PLUS | TACTICAL SQUADRON |

4.6.2  Refresher POI

| DASC MAINTENANCE MOS 5974 REFRESHER POI | | |
|---|---|---|
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |
| VARIES | CORE SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | CORE PLUS | TACTICAL SQUADRON |

NOTE 1:  TRAINING DURATIONS VARIES BY POSITION BEING TRAINED.  SEE PROGRESSION MODEL FOR NOTIONAL TRAINING TIMES.

4.7  SYLLABUS NOTES

4.7.1  Environmental Conditions Matrix.

| Environmental Conditions | |
|---|---|
| Code | Meaning |
| D | Shall be conducted during hours of daylight: (by exception - there is no use of a symbol) |
| N | Shall be conducted during hours of darkness, may be aided or unaided |
| N* | Shall be conducted during hours of darkness must be flown unaided |
| (N*) | May be conducted during hours of darkness – If conducted during hours of darkness must be flown unaided |
| (N) | May be conducted during darkness – If conducted during hours of darkness; may be flown aided or unaided |
| NS | Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices |

| | |
|---|---|
| (NS) | May be conducted during darkness – If conducted during hours of darkness; must be flown with Night Vision Devices |

| |
|---|
| Note – If the event is to be conducted in the simulator the Simulator Instructor shall set the desired environmental conditions for the event. |

4.7.2 Device Matrix.

| DEVICE | |
|---|---|
| **Symbol** | **Meaning** |
| L | Event shall be conducted live (conducted in the field/garrison, during an exercise, etc). Requires live (non-simulated) execution of the event. |
| L/S | Event performed live preferred/simulator optional. |
| S/L | Event performed in simulator preferred/live optional. |
| G | Ground/academic training. May include Distance Learning, CBT, lectures, self paced. |
| CBT | Computer Based Training |
| LAB | Laboratory |
| LEC | Lecture |
| CP | Command Post |
| TEN | Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station. |
| TEN+ | Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement. |
| Note – If the event is to be flown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event. | |

4.7.3 Program of Instruction Matrix.

| PROGRAM OF INSTRUCTION MATRIX | | |
|---|---|---|
| **Program of Instruction (POI)** | **Symbol** | **Aviation Ground** |
| Basic | **B** | Initial MOS Training |
| Refresher | **R** | Return to community from non (MOS/Skill) associated tour |
| Maintain | **M** | All individuals who have attained CSP/MSP/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency. |

4.7.4 Event Terms.

| EVENT TERMS | |
|---|---|
| **TERM** | **DESCRIPTION** |
| Discuss | An explanation of systems, procedures, or tactics during the brief, exercise, or debrief. Student is responsible for knowledge of procedures. |
| Demonstrate | The description and performance of a particular event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required event. |

| | |
|---|---|
| Introduce | The instructor may demonstrate a procedure or event to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures. |
| Practice | The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance. |
| Review | Demonstrated proficiency of an event by the student. |
| Evaluate | Any event designed to evaluate team/crew standardization that does not fit another category. |
| E-Coded | This term means an event evaluation form is required each time the event is logged. Requires evaluation by a certified standardization instructor (NATOPS I, WTI, INST Evaluator etc.) |

4.8  ACADEMIC PHASE (0000)

4.8.1  Purpose.  **RESERVED FOR FUTURE USE**

4.8.2  General

4.8.2.1  Admin Notes.

4.8.2.2  Prerequisites.

4.8.2.3  Stages.

4.9  CORE INTRODUCTION PHASE (1000 Phase)

4.9.1  Purpose.  To provide classroom entry-level instruction to develop the basic skills necessary to configure and manage tactical data links and joint range extension applications protocols as well establish secure intelligence links and configure the common center.  This training is complete upon graduation from the Tactical Data Systems Administrator Course when the trainee is designated MOS 5974, Tactical Data Systems Administrator (TDSA).

4.9.2  General

4.9.2.1  Prerequisite.  Be a graduate of the 5900 Common Course (CID:  M091J31) and meet the requirement delineated in the MOS Manual.

4.9.2.2  Admin Notes.  Tactical Data Systems Technician Course, (CID: M092721), MCCES, located in 29 Palms, CA.  This program of instruction can be viewed on MCTIMS.

4.9.2.3  Stages.  The following stages are included in the Core Skill Introduction Phase of training.

| PAR NO. | STAGE NAME |
|---|---|
| 4.9.3 | AIR SCHOOLS (AIRS) |

4.9.3  CORE INTRODUCTION PHASE

4.9.3.1  Purpose.  To train entry level personnel and lateral move NCOs in the duties as Tactical Data Systems Technicians.

4.9.3.2  General

Prerequisite.  Per the MOS Manual, MCO 1200.17.

Admin Notes. None

Crew Requirements: None

59CM-1500                0                                                                        G

Goal. Describe the characteristics of the Marine Air Command and Control System (MACCS).

Requirement. Given the references:

1. Describe the six functions of Marine Aviation.
2. Describe the mission of the MACCS.
3. Describe the organization of the MACCS tactical agencies resident within the Marine Air Control Group (MACG).
4. Describe the function(s) of each MACCS agency within the MACG.
5. Describe the MACCS specific equipment systems within the MACG.
6. Describe the characteristics of the Multi-Tactical Data Link network used within the MACG.

Performance Standard. N/A

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

59CM-1501                0                                                                        G

Goal. Measure circuit performance.

Requirement. Given the references:

1. Observe safety precautions
2. Measure electronic parameters (voltage, current, resistance, time)
3. Calculate electronic parameters
4. Identify electronic components
5. Read schematics

Performance Standard. N/A

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

59CM-1502                0                                                                        G

Goal. Establish secure RF communications using radios within the MACCS.

Requirement. 1. Describe the characteristics of RF propagation
2. Configure radio
3. Assemble radio
4. Disassemble radio
5. Demonstrate safe handling of controlled items
6. Load crypto
7. Load a frequency
8. Load time

Performance Standard. N/A

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

59CM-1503             0                                                      G

Goal. Describe proper handling and storage of classified materials.

Requirement. 1. State the different levels of classification.
2. State the marking Requirements for each level of classification.
3. State the Two-Person Integrity (TPI) rule.
4. State storage procedures for each level of classification.
5. Identify transportation Requirements for classified material.
6. Identify the approved security containers utilized for storage.
7. Identify the procedures for handling Controlled Cryptographic Items (CCIs).

Performance Standard. N/A

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

59CM-1504             0                                                      G

Goal. Provide cyberwarfare technical support for MACCS specific equipment.

Requirement. Provide the references and appropriate equipment:

1. Install and configure hardware, software, and peripheral equipment

2. Manage accounts, networks, and access to systems and equipment
3. Monitor client-level computer system performance
4. Diagnose and resolve operator reported system incidents
5. Troubleshoot system hardware and software
6. Assist in the execution of disaster recovery continuity of operations plans

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

59CM-1505           0                               G

Goal.  Repair common cables.

Requirement.  Provided the appropriate equipment repair:

1. Ethernet/RJ-45 cable
2. BNC cable
3. RF cable
4. Power cable
5. Data cable
6. Fiber optic cable

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

59CM-1506           0                               G

Goal.  Demonstrate an earth ground installation.

Requirement.  Given the references, grounding kit and PPE, perform the following:

1. Identify ground tolerances for equipment and personnel.
2. Identify methods of grounding.
3. Identify a method for improving a ground.
4. Identify proper location to test a ground.
5. Install an earth ground.

6.  Verify proper grounding reading utilizing appropriate test equipment.

Performance Standard.  N/A

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

TDSA-1070               *          B

Goal.  Configure the PDS.

Requirement.  Given the references, a Processing and Display System (PDS), and a simulated communication plan; configure the following:

1.  Configure the Operations Trailer.
2.  Configure Servers.
3.  Configure operator workstations.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/1 System Users Manual (SUM)

TDSA-1071               *          B

Goal.  Maintain data circuits with the PDS.

Requirement.  Given the references, a Processing and Display System (PDS), and a simulated communication plan:

1.  Perform an operational check of data circuits.
2.  Maintain data circuits.
3.  Maintain operations trailer.
4.  Maintain servers.
5.  Maintain operations facility.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/1 System Users Manual (SUM)


TDSA-1072                    *          B

Goal.  Manage Windows based systems.

Requirement.  Conduct the following:

1.  Manipulate the Windows file system.
2.  Set owner permissions on Windows objects.
3.  Set file permissions on Windows objects.
       4.  Configure the BIOS.
5.  Configure On board RAID controller.
6.  Install Windows Operating System.
7.  Manage memory on Windows systems.
8.  Manage processes on Windows systems.
9. Manage local users.
10. Create Windows back-ups.
11. Perform recovery of Windows from backup.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 3-25.3
2.  MCWP 3-25.4
3.  DNS on windows 2000 ISBN #0-596-00230-0
4.  Windows Server Cookbook ISBN #0-596-00633-0
5.  Windows NT in a Nutshell ISBN #1-56592-251-4
6.  Essential Windows NT ISBN #1-56592-274-3
7.  TCP/IP Network Administration ISBN #1-56592-322-7
8.  Active Directory ISBN #0-596-00466-4

TDSA-1074         *       B

<u>Goal.</u> Manage UNIX based systems.

<u>Requirement.</u> Conduct the following:

1. Manipulate the UNIX file system.
2. Set owner permissions on UNIX objects.
3. Set file permissions on UNIX objects.
4. Utilize UNIX shells.
5. Perform text editing with UNIX Software.
       6. Utilize UNIX administrative Tools.
7. Install UNIX Operating System.
8. Manage memory on UNIX systems.
9. Manage processes on UNIX systems.
10. Create back-ups for UNIX systems.
11. Perform recovery of UNIX from backup.
12. Analyze UNIX script files.
13. Edit UNIX Script files.
14. Manage local user accounts.

<u>Performance Standard.</u> Pass an exam.

<u>Instructor.</u> FLC instructor

<u>Prerequisite.</u> None

<u>Ordnance.</u> None

<u>Range.</u> None

<u>External Syllabus Support.</u> None

<u>Reference.</u>
1. Unix in a Nutshell ISBN # 1-56592-001-5
2. Essential System Administration 3rd edition ISBN # 0-596-0034-9
3. Essential System Administration 2nd edition ISBN #0-937175-80-3
4. Essential System Administration ISBN # 0-937175-80-3
5. Solaris System Administration Guide 2nd edition ISBN 1-57870-40-x
6. MarineNet Course "CompTIA A+ 220-801: Memory - Expansion Cards and Storage Devices" course code - CSAPELA02
7. MarineNet Course "CompTIA A+ 220-801: CPUs - Connections - and Power Supplies" course code - CSAPELA03

TDSA-1075         *       B

<u>Goal.</u> Manage Networked Operating Systems (NOS).

<u>Requirement.</u> Given a network site diagram, conduct the following:

1. Configure UNIX networking components.
2. Configure Windows networking components.
3. Configure network services.
4. Configure NFS.

5. Configure DFS.
6. Manage Active Directory.
7. Configure network attached storage device.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Active Directory ISBN #0-596-00466-4
2. Managing NFS and NIS ISBN #0-937175-75-7
3. Kerberos the definitive guide ISBN #0-596-00403-6
4. The Official Samba-3 how to and reference guide ISBN #0-13-145355-6
5. Solaris Performance administration ISBN #0-07-011768-3
6. Essential System Administration 3rd edition ISBN # 0-596-0034-9
7. Essential System Administration 2nd edition ISBN #0-937175-80-3
8. Essential System Administration ISBN # 0-937175-80-3
9. Solaris 2.6 Administration certification part 1 ISBN #1-57870-085-x
10. Solaris Essential reference ISBN #0-7357-0023-0
11. Solaris 2.x for Managers and Administrators ISBN #1-56690-150-2
12. MarineNet Course "CompTIA Network+ 2012: Networking Concepts Part 1" Course code - CSCTMTA01
13. MarineNet Course "CompTIA Network+ 2012: Networking Concepts Part 2" Course code - CSCTMTA01

TDSA-1076                *         B

Goal.  Configure the Communication Data-link System (CDLS).

Requirement.  Describe the following:

1. Describe the characteristics of the CDLS.
2. Configure CDLS processors.
3. Configure the Air Defense System Integrator (ADSI) utilities.
4. Configure the TacticalWorkstation (TW).

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Maintenance and Operation Manual for USMC TACC CDLS
2.  ADSI User's Guide
3.  ADSI Installation and Configuration Guide
4.  TM EE130-EF-MMC-010


TDSA-1077                *           B

Goal.  Configure virtualized server computing environment.

Requirement.  Conduct the following:

1. Install the host operating system.
2. Configure the host operating system.
3. Install the guest operating system.
4. Configure the guest operating system.
5. Create a virtual machine snapshot.
6. Perform a migration of a virtual machine.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM) 2. TM 12041A/12050-OD/2 System Users Manual (SUM)
2.  Introduction to VMware vSphere http://www.vmware.com/pdf/vsphere4/r41/vsp_41_intro_vs.pdf
3.  Installation Guide for the Combat Operations Center Virtual Center Server 1.0.0.0 Build 7 for AN/TSQ-239(V)2, (V)3, and (V)4 Software Release Package 5.3.0.0 Build 1 Restore Media
4.  Intelligence Analysis System (IAS) Intelligence Server – UNIX (IS-U) 5.0.2.0 System Administrator's Manual (SAM) for the Sun SPARC T5140 and Sun Netra T2000


TDSA-1079                *           B

Goal.  Configure Network Security.

Requirement.  Given a network diagram, Windows computer(s), UNIX computer(s), switch(es), and router(s) conduct the following:

1.  Configure computer security components.
2.  Configure security on switches.
3.  Configure security on routers.
4.  Construct ACL.
5.  Install firewall.
6.  Configure firewall.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Cisco IOS in a nutshell ISBN #0-596-00869-4
2.  Managing NFS and NIS ISBN #0-937175-75-7
3.  Networking for dummies ISBN #0-7645-0498-3
4.  Exchange Server Cook Book ISBN #0-596-00717-5

TDSA-1080                  *          B

Goal.  Configure Tactical  Common Operational Picture Server (TCS).

Requirement.  Configure the following:

1.  Install TCS software.
2.  Configure the TCS.
3.  Configure CST channels.
4.  Configure Solaris Open Boot PROM

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM-09858A/10275A-13/1

TDSA-1081                  *          B

Goal.  Configure the Joint Range Extension (JRE).

Requirement.  Describe the following:

1.  Describe the characteristics of the JRE.
2.  Configure JRE.
3.  Configure the JRE application.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 11399A-OI/1 Joint Range Extension Gateway
2. JRE Version 5.1 Software User Manual, ESD-070002, Rev.1


TDSA-1082 * B

Goal. Establish Tactical Data Systems (TDS) Networks.

Requirement. Given a sample network diagram and cables, conduct the following:

1. Connect Network Devices.
2. Assemble Cat-5E cables.
3. Configure routers.
4. Configure Switches.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TCP/IP Network Administration ISBN #1-56592-322-7
2. Computer Network and Internets ISBN-13: 978-0136066989
3. Data Communication Network Devices ISBN #0-471-97515-x
4. Essential System Administration ISBN #0-596-00343-9
5. Cisco Router 24 Seven Sybex manual


TDSA-1083 * B

Goal. Configure Advanced Field Artillery Tactical Data System (AFATDS).

Requirement. With the aid of reference, perform the following:

1. Install AFATDS software.

2.  Configure the AFATDS.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 7025-OR/1
2.  TM 7025-OR/2
3.  TM 7025-OR/3


TDSA-1085          *       B

Goal.  Establish all Joint Range Extension Application Protocol (JREAP) types with an ADSI.

Requirement.  Given an ADSI, perform the following:

1.  Configure JREAP-A.
2.  Initialize JREAP-A.
3.  Configure JREAP-B.
4.  Initialize JREAP-B.
5.  Configure JREAP-C.
6.  Initialize JREAP-C.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
ADSI Installation and Configuration Guide


TDSA-1086          *       B

Goal.  Establish all Joint Range Extension Application Protocol (JREAP) types with a JRE.

Requirement.  Given a JRE, perform the following:

1.  Configure JREAP-A.

2. Initialize JREAP-A.
3. Configure JREAP-B.
4. Initialize JREAP-B.
5. Configure JREAP-C.
6. Initialize JREAP-C.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
ADSI Installation and Configuration Guide

TDSA-1087 * B

Goal. Establish Link-16 with a JRE

Requirement. Given the JRE, establish RF Link-16 by performing the following:

1. Configure the JRE for RF Link-16.
2. Configure the MIDS Terminal.
3. Initialize RF Link-16.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JMTOP
2. ADSI Installation and Configuration Guide

TDSA-1088 * B

Goal. Establish Link-16.

Requirement. Given the CDLS, establish Link-16 by performing the following:

1. Configure the ADSI for Link-16.

2. Configure the MIDS Terminal.
3. Initialize Link-16.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JMTOP
2. ADSI Installation and Configuration Guide


TDSA-1089            *        B

Goal. Establish Link-11.

Requirement. Given a CDLS, establish Link-11 by performing the following:

1. Configure the data terminal set.
2. Configure the crypto device.
3. Configure the UHF radio set.
4. Configure the HF radio set.
5. Initialize Link-11.
6. Configure the ADSI for Link-11.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. KG-40A User's Manual
2. TM 09780A-13 P/1
3. ADSI Installation and Configuration Guide


TDSA-1090            *        B

Goal. Establish Link-11B.

Requirement. Given a CDLS, establish Link-11B by performing the following:

1. Configure the modem.
2. Configure crypto device.
3. Initialize Link-11B.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. ADSI Hardware Description Document
2. KIV-7 HSB User's Manual
3. ADSI Installation and Configuration Guide

TDSA-1101        *      B

Goal.  Describe Tactical Common Operational Picture Server (TCS).

Requirement.  Describe the following:

1. Describe the TCS.
2. Describe installation of TCS.
3. Describe Framework configuration.
4. Describe Common Operational Picture (COP).
5. Describe Universal Build (UB).
6. Describe COP Synch Tool (CST) feed.

Performance Standard.  Pass an exam.

Instructor.  FLC Instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None.

Reference.
1. TM-09858A/10275A-13/1
2. SL-3-10753C

TDSA-1104        *      B

Goal.  Identify Tactical Data Systems Technician duties at MACCS agencies.

Requirement.  With the aid of references, identify the:

1. Tactical Data System (TDS) at each unit.
2. Responsibility of TDS Tech at each unit.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.


TDSA-1105                    *           B

Goal.  Manage the Combat Operations Center (COC).

Requirement.  Describe the following:

1. Setup COC infrastructure
2. Install COC Software
3. Configure the COC
4. Maintain the COC

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. COC 5.3.3.0/5.3.1.0/5.3.2.1
2. 32-bit Server: Build 3 Ver 1.1.2.1
3. 64-bit Server: Build 3 Ver 2.1.2.1
4. Collaboration Server:  Build 3 Ver 2.1.2.1
5. CPoF Backup Server: Build 3 Ver 1.2.2.1
6. CPoF Master Server: Build 3 Ver 2.1.2.1
7. CPoF Midtier Server: Build 3 Ver 1.2.2.1
8. DC/Exchange Server:  Build 3 Ver 1.1.1.0
9.IOS V3 Server: Build 3 Build Ver 1.1.2.1
10.  Maintenance Server: Build 3 Ver 1.2.2.1
11.  Domain Server: Build 3 Ver 1.1.2.1
12.  Exchange Server: Build 3 Ver 1.1.2.1
13.  Virtual Center Server: Build 3 Ver 1.0.2.1
14.  Windows Basline Client: Build 3 Ver 2.1.2.1
15.  Network Administrator Client: Build 3 Ver 1.2.2.1
16.  Intelligence Client: Build 3 Ver 2.1.2.1
17. Operations Client: Build 3 Ver 1.2.2.1

18.  Logistics Client: Build 3 Ver 1.2.2.1
19.  COBRA3 Operations Client: Build 3 Ver 1.0.2.1
20.  COBRA3 Windows Client: Build 3 Ver 1.0.2.1


TDSA-1107                    *          B

Goal.  Build TBMCS

Requirement.  Perform the following:

1.  Configure ESXi boards
2.  Configure network devices
3.  Install Software
4.  Build clients
a.  Virtual machine client
b.  Personal Computer client
4.  Configure virtual machines
5.  Configure DNS
6.  External system interfaces

Performance Standard.  Pass an exam

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

4.10  CORE SKILL PHASE (2000 Phase)

4.10.1  Purpose.  To develop core skill proficiency for 5974 personnel to be able to perform duties while assigned to the tactical data systems section.

(1) Basic Technicians will gain core skill proficiency in basic networking, basic systems administration, and basic systems management on command and control systems at the DASC.

(2) Advance Technicians will gain core skill proficiency in advanced networking, advanced systems administration, advanced systems management, and data link setup and maintenance on command and control systems at the DASC.

4.10.2  General

4.10.2.1  Prerequisite.

(1) Tactical Data Systems Administrator Basic Technician (TDSABT).  Core Skill Introduction training must be completed prior to beginning TDSBT training.

(2) Tactical Data Systems Administrator Advanced Technician (TDSAAT).  Be qualified as a TDSBT prior to beginning TDSAT training.

4.10.2.2 <u>Admin Notes</u>.

(1) In the current fiscally constrained environment, commanders are encouraged to send their 5974 Marines to the TECOM funded Tactical Data Systems Managers course and the MACCS Senior Maintenance Managers Course conducted by MCCES to receive essential training delineated in this syllabus.  Marines would receive formalized instruction in a short period of time while preserving unit resources.

(2) Training in this phase does not preclude simultaneous training in the mission skill and core plus phases provided applicable prerequisites have been met.

(3) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

4.10.2.3  <u>Stages.</u>  The following stages are included in the Core Skill Phase of training.

| PAR NO. | STAGE NAME |
|---|---|
| 4.10.3 | SECURITY (SEC) |
| 4.10.4 | FAMILIARIZATION (FAM) |
| 4.10.5 | COMPUTER AND NETWORK TRAINING (CANT) |
| 4.10.6 | COLLATERAL DUTIES (CD) |
| 4.10.7 | MAINTENANCE MANAGEMENT (MMGT) |
| 4.10.8 | DEPLOYMENT (DEPL) |
| 4.10.9 | SYSTEM ADMINISTRATION (SYSAD) |
| 4.10.10 | TACTICAL DATA LINK (TDL) |

4.10.3  <u>SECURITY (SEC) STAGE</u>

4.10.3.1 <u>Purpose</u>.  To provide an overview and familiarization with the handeling and usage of classified materials.

4.10.3.2 <u>General</u>

   <u>Prerequisite</u>. None

   <u>Admin Notes</u>.  None

   <u>Crew Requirements</u>. None


SEC-2000          2.0        365      B,R,M                                                                  L

   <u>Goal.</u>  Describe proper handling and storage of classified materials.

   <u>Requirement.</u>  Perform the following:

   1.  State the different levels of classification.
   2.  State the marking requirements for each level of classification.
   3.  State the Two-Person Integrity (TPI) rule.
   4.  State storage procedures for each level of classification.

5. Identify transportation requirements for classified material.
6. State the sections of the SF-702.
7. Identify the approved security containers utilized for storage.
8. Identify the procedures for handling Controlled Cryptographic Items (CCIs).

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. SECNAV M-5510.36
2. MCO 5530.14
3. EKMS-1_ (KMI)
4. Unit SOP

SEC-2001          2.0          *          B,R                                                                      L

Goal. Use a Common Fill Device.

Requirement. Given (2) loaded common fill devices and a zeroized cryptographic device, perform the following:

1. Describe the purpose of common fill device.
2. Define the common fill device loading procedure.
3. Configure the common fill device.
4. Identify common fill device indicators and messages.
5. Transfer key material to Controlled Cryptographic Item (CCI) equipment.
6. Transfer cryptographic information from common fill device to common fill device.
7. Destroy superseded keying material within the common fill device.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EKMS-1 (KMI)
2. Technical Manual

SEC-2002         2.0       1095     B,R,M                                                           L

      Goal.  State the physical security requirements for classified areas.

      Requirement.  Given a tactical scenario and references, identify the following:

      1.  Purpose of a guard schedule.
      2.  Purpose of access control.
      3.  Purpose of the entry control point.
      4.  Perimeter barrier requirements.

      Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

      Instructor.  BI

      Prerequisite.  None

      Ordnance.  None

      Range.  None

      External Syllabus Support.  None

      Reference.
      1.  MCO 5530.14_
      2.  SECNAV M-5510.36

SEC-2003         2.0       1095     B,R,M                                                           L

      Goal.  Extract key material information from EKMS/KMI COMSEC callout.

      Requirement.  Given an EKMS/KMI COMSEC callout and references, perform the following:

      1.  State the purpose of the EKMS/KMI COMSEC callout.
      2.  Identify the five main pieces of key information:
        a.  Short Title.
        b.  Edition.
        c.  Segment.
        d.  Classification.
        e.  Supersession date.
      3.  Identify segment roll over dates and time.
      4.  Identify short titles applicable to specific implementations within the unit

      Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

      Instructor.  BI

      Prerequisite.  2000

      Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. EKMS-1 (KMI)
2. MCWP 3-40.3
3. CMR

SEC-2004        2.0        1095      B,R,M                                              L

Goal.  Create a classified area physical security diagram.

Requirement.  Given a tactical scenario and references, create a diagram that includes the following:

1. Entry control point(s).
2. Perimeter barrier.
3. Communication lines.
4. Storage area locations

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000, 2002

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 5530.14
2. SECNAV M-5510.36

SEC-2005        3.0        *        B,R                                              L

Goal.  Ensure classified material handling procedures are followed.

Requirement.  Given the references, perform the following:

1. Verify classified material is stored.
2. Verify required Standard Forms are completed.
3. Verify classified material is transported.
4. Verify CCI is stored IAW the reference

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  SECNAV M-5510.36
2.  MCO 5530.14
3.  Unit SOP


SEC-2006        4.0        *        B                                                        L

Goal.  Identify Cryptographic Controlled Item (CCI) devices organic to the section.

Requirement.  Perform the Following:

1.  Inventory all CCI on the SF-153.
2.  State the purpose of each piece of equipment.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manual
2.  CMR


4.10.4  FAMILIARIZATION (FAM)

4.10.4.1  Purpose.  To provide core skills necessary to build foundational skills within Marine Air Command and Control System (MACCS).

4.10.4.2  General

Prerequisite. None

Admin Notes.  None

Crew Requirements.  None


FAM-2020        3.0        1095        B,R,M                RIL-C Earth Ground Resistance Tester (Ohmmeter)  L

Goal.  Measure Soil Resistivity.

Requirement.  Given the references, grounding kit and PPE, perform the following:

1.  Measure resistivity of soil of a given area.
2.  Determine suitability of grounds for TE equipment.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 9406-15 Ground Procedures Manual
2.  R1L-C User's Manual


FAM-2021        2        *        B                                                      AN/PSN-13        L

Goal.  Operate the handheld GPS

Requirement.  Perform the following:

1.  State the purpose of the handheld GPS
2.  State the characteristics of the handheld GPS
3.  Find current location (coordinates including elevation)
    a.  MGRS
    b.  LAT/LONG
    c.  UTM/UPS
4.  Plot a way point
5.  Given coordinates, navigate to a location

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 09880C-OR
2.  TM 09880C-OI AN/PSN-13

FAM-2022      2.0      *      B                                                    L

    Goal.  Describe the characteristics of unit T/E generators.

    Requirement.  Identify the following:
      1. Frequency.
      2. Voltage(s).
      3. Load capacity.
      4. Fuel consumption.

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  None

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.
    1. Technical Manuals
    2. http://www.marcorsyscom.marines.mil/ProgramOffices/EPSHome/MobileElectricPower.aspx

FAM-2023      1.0      *      B                                                    L

    Goal.  Describe TACLANE.

    Requirement.  Given the references, perform the following:

    1. Describe the purpose of the TACLANE
    2. Identify different TACLANE models

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  None

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.
    1. TM 11-5810-422-13 (KG-175D)

4.10.5 <u>COMPUTER AND NETWORK TRAINING (CANT) STAGE</u>

4.10.5.1  To provide mission skills in computing and networking that will be used in the performance of assigned duties within the Marine Air Command and Control System (MACCS).

4.10.5.2  <u>General</u>

      <u>Prerequisite</u>. NONE

      <u>Admin Notes</u>. NONE

      <u>Crew Requirements</u>. NONE

CANT-2040    4.0    1095   B,R,M                      E          L

      <u>Goal.</u>  Explain application, data, and host security.

      <u>Requirement.</u>  With the aid of reference, perform the following:

      1.  Explain the importance of application security.
      2.  Explain the appropriate procedures to establish host security.
      3.  Explain the importance of data security.

      <u>Performance Standard.</u>  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

      <u>Instructor.</u>  BI

      <u>Prerequisite.</u>  None

      <u>Ordnance.</u>  None

      <u>Range.</u>  None

      <u>External Syllabus Support.</u>  None

      <u>Reference.</u>
      1.  CompTIA Approved Quality Content (CAQC) program reference material
      2.  Applicable User's Manuals for specific network devices.
      3.  Current industry-standard curriculum and references.

CANT-2041    2.0    1095   B,R,M                              L

      <u>Goal.</u>  Perform account management.

      <u>Requirement.</u>  With the aid of reference, perform the following:

      1.  Plan user accounts.
      2.  Create user accounts IAW naming convention.
      3.  Create groups IAW naming convention.
      4.  Set account permissions.
      5.  Manage user accounts.
      6.  Document as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  User manuals
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2042      4.0      1095     B,R,M                                        E                    L

Goal.  Explain Network Security.

Requirement.  With the aid of references, perform the following:

1.  Explain the methods of network access security.
2.  Explain methods of user authentication.
3.  Explain common threats, vulnerabilities, and mitigation techniques.
4.  Describe the purpose of a basic firewall.
6.  Categorize different types of network security devices and methods.
7.  Describe the implementation of secure network administration principles.
8.  Describe between network design elements and components.
9.  Identify commonly used default network ports.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2043      4.0      1095     B,R,M                                        E                    L

Goal. Explain Network Operational Security.

Requirement. With the aid of reference, perform the following:

1. Explain risk related concepts.
2. Explain appropriate risk mitigation strategies.
3. Explain appropriate incident response procedures.
4. Explain the importance of security related awareness and training.
5. Compare aspects of business continuity.
6. Explain the impact and proper use of environmental controls.
7. Explain the concepts of confidentiality, integrity and availability (CIA).

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

CANT-2044     4.0     1095     B,R,M                              E                L

Goal. Explain threats and vulnerabilities.

Requirement. With the aid of reference, perform the following:

1. Explain the types of malware.
2. Explain types of attacks.
3. Explain types of application attacks.
4. Explain types of mitigation and deterrent techniques.
5. Explain assessment tools and techniques to discover security threats and vulnerabilities.
6. Within the realm of vulnerability assessments, explain the proper use of penetration testing versus vulnerability scanning.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.


CANT-2045    4.0    1095    B,R,M                        E              L

Goal. Explain computer and network cryptography.

Requirement. With the aid of reference, perform the following:

1. Summarize general cryptography concepts.
2. Explain the appropriate cryptographic tools and products.
3. Explain the core concepts of public key infrastructure.
4. Explain the Implementation of PKI, certificate management and associated components.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.


CANT-2046    4.0    1095    B,R,M                        E              L

Goal. Explain access control and identity management security measures

Requirement. With the aid of reference, perform the following:

1. Explain the function and purpose of authentication services.
2. Explain the fundamental concepts and best practices related to authentication, authorization and access control.
3. Explain the Implementation of appropriate security controls when performing account management.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

4.10.6 COLLATERAL DUTIES (CD) STAGE

4.10.6.1 Purpose. To provide core skills on the duties and responsibilities of each collateral duty within a maintenance section.

4.10.6.2 General

Prerequisite. None

Admin Notes. Familiarization of all maintenance collateral duties gives the technician an awareness of the different essential functions required within the maintenance section. The core maintenance collateral duties are:

1. Calibrations
2. Modifications
3. Tool Control
4. Publications
5. Safety/Hazardous Materials (HAZMAT)
6. Embarkation
7. Marine Integrated Maintenance Management Service (GCSS)
8. Equipment Records
9. Quality Control
10. Training

Crew Requirements. None


CD-2060         1.0      *       B                                                          L

Goal. Identify the Maintenance Calibrations Program.

Requirement. State the following:

1. Purpose of the billet
2. Chapters/pages within the references which are applicable to the program
3. Purpose of the FSMAO Checklist
   a. Explain the purpose of each question within the Checklist
   b. Identify the pages within the reference where more information can be found regarding the collateral duty

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H
4.  Associated Desktop/Turnover
5.  MMSOP
6.  FSMAO Checklist
7.  MCO 4400.160


CD-2061          2.0      *        B                                                      L

Goal.  Identify the Maintenance Modifications Program.

Requirement.  State the following:

1.  Purpose of the billet
2.  Chapters/pages within the references which are applicable to the program
3.  Purpose of the FSMAO Checklist
    a.  Explain the purpose of each question within the Checklist
    b.  Identify the pages within the reference where more information can be found regarding the collateral
duty

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the
trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H
4.  Associated Desktop/Turnover
5.  MMSOP
6.  FSMAO Checklist
7.  MCO 4400.160


CD-2062          2.0      *        B                                                      L

Goal. Manage the Tool Control Program.

Requirement. State the following:

1. Purpose of the billet
2. Chapters/pages within the references which are applicable to the program
3. Purpose of the FSMAO Checklist
   a. Explain the purpose of each question within the Checklist
   b. Identify the pages within the reference where more information can be found regarding the collateral duty

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

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CD-2063     2.0    *    B                                   L

Goal. Identify the Maintenance Publications Library.

Requirement. State the following:

1. Purpose of the billet
2. Chapters/pages within the references which are applicable to the program
3. Processes required IAW unit SOP

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

CD-2064       2.0      *       B                                                        L

Goal. Identify major Maintenance Safety Program elements.

Requirement. Given the references, perform the following:

1. Define and identify the purpose of Lock-out/Tag-out.
2. Demonstrate lock-out/tag-out procedures.
3. Eliminate the effects of ESD on electronic components.
   a. Define ESD.
   b. Setup ESD workstation.
   c. Demonstrate proper use of ESD workstation during repair of ESD sensitive circuit.
   d. Demonstrate proper packaging and handling of ESD sensitive material.
4. Describe hazard prevention as it applies to:
   a. Electrical hazards.
   b. Eye hazards.
   c. Hearing hazards.
   d. RF hazards.
   e. Fire hazards.
5. Identify HAZMAT procedures.
   a. Properly store and label HAZMAT materials.
   b. Demonstrate proper usage of Personal Protective Equipment (PPE).
   c. State the purpose of and locate and read safety board.
6. List the sections of an MSDS.
   a. Chemical identity.
   b. Manufactures name and contact information.
   c. Hazardous ingredients/identity information.
   d. Physical/chemical characteristics.
   e. Fire and explosion hazard data.
   f. Reactivity data.
   g. Health hazard data.
   h. Precautions for safe handling and use.
   i. Control measures.
7. State the purpose of the MSDS center.
8. Locate the MSDS compliance center in the maintenance department.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 5100.29
2. MCO 4450.12
3. MCO 5100.8
4. OSHA standard 29 CFR 1910.147
5. Electro Discharge Mgmt (ESD) TM-9999-15/2
6. MCO P4790.2
7. UM 4000-125 GCSS-MC User's Manual
8. TM-4700-15/1H
9. Desktop/Turnover
10. MMSOP
11. FSMAO Checklist
12. MCO 4400.160


CD-2065          3.0      *      B                                                                L

Goal. Identify the key elements of the Maintenance Embarkation Program.

Requirement. Given the references, perform the following:

1. State the purpose of the maintenance embarkation program.
2. State the purpose of the equipment density list (EDL).
3. List length, width, height, and weight of major end items.
4. Identify ground equipment transportation requirements.
5. Identify Heavy Equipment (HE) requirements needed for systems movement.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 4-11.3 Unit Embarkation Handbook
2. MCO P4790.2
3. Technical Manuals
4. Maintenance Embarkation Program Desktop
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160


CD-2066          1.0      *      B                                                                L

Goal. Identify the equipment record jacket.

Requirement. Given the references and a record jacket, perform the following:

1. State the purpose of a record jacket.
2. State the minimum content requirements for an equipment record jacket.
3. State the destruction instructions for each document within the record jacket.
4. State the local policy for disposition of inactive record jackets.
5. Inspect the record jacket content for completeness.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
6. FSMAO Checklist
7. MCO 4400.160

CD-2067          2.0      *        B,R                                                      L

Goal. Identify Quality Control Procedures.

Requirement. Given the references and equipment records, perform the following:

1. Identify maintenance QC procedures.
2. List all the QC areas within your section.
3. State the frequency of the QC checks for each area.
4. Conduct a QC inspection on a selected piece of equipment:
   a. Ensure equipment is being maintained to equipment standards.
   b. Ensure quality controls are being adhered to.
   c. Ensure inspection standards, checklists or templates being used to inspect completed maintenance actions.
   d. Ensure equipment specifications are being recorded within tolerance levels IAW TM.
   e. Verify the repair process is properly implemented by ensuring that:
      (1) Proper tools were used.
      (2) ESD procedures were used.
      (3) Safety warnings were adhered to.
      (4) Necessary defective parts were replaced.
      (5) Correct software was used, as applicable.
      (6) Proper GCSS entries are annotated on the Service Request throughout the Maintenance Cycle.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H
4.  Desktop/Turnover
5.  MMSOP
6.  FSMAO Checklist
7.  MCO 4400.160


CD-2068          2.0         *          B                                                      L

Goal.  Identify the Maintenance Training program.

Requirement.  Given the references, perform the following:

1.  Describe the purpose of the maintenance training program.
2.  List requirements for maintenance training IAW MMSOP
3.  Explain the purpose of the Aviation T&R program.
4.  Explain how training is tracked
a.  MSHARP
b.  MACCS Performance Record (MPR)

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H
4.  Desktop/Turnover
5.  MMSOP
6.  NAVMC 3500.14C

    7.  T&R Manuals
    8.  FSMAO Checklist
    9.  MCO 4400.160

4.10.7  <u>MAINTENANCE MANAGEMENT (MMGT) STAGE</u>

4.10.7.1  <u>Purpose</u>.  To provide the core skills necessary to manage maintenance activities and administrative resonsibilities within the maintenance section.

4.10.7.2    <u>General</u>

    <u>Prerequisite</u>. None

    <u>Admin Notes</u>. None

    <u>Crew Requirements</u>. None

MMGT-2100    40    *    B                                           G

    <u>Goal.</u>  Complete Maintenance Management Program indoctrination training

    <u>Requirement.</u>  Complete the following maintenance management program Indoctrination training:

    1.  Describe the eight functional areas of maintenance management
    2.  Define Desktop procedure
    3.  Define Turnover folder
    4.  Identify Collateral Duties Required IAW MMSOP
    5.  Identify the objectives of maintenance management program
    6.  Identify maintenance management program references.
     a.  MMSOP
     b.  UM 4000-125 GCSS User's Manual
     c.  MCO P4790.2
     d.  MCO 4400.150
     e.  MCO P4400.16 UMMIPS
    7.  Identify the responsibilities of maintenance management personnel.
     a.  Commanding Officer
     b.  Maintenance Management Officer
     c.  Maintenance Officer
     d.  Supply Officer
     e.  Maintenance Chief
     f.  Supply Clerks
     g.  Maintenance Management Office Clerks
     h.  Maintenance Marines

    <u>Performance Standard.</u>  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    <u>Instructor.</u>  BI

    <u>Prerequisite.</u>  None

    <u>Ordnance.</u>  None

    <u>Range.</u>  None

External Syllabus Support.  None

Reference.
1.  MMSOP
2.  MCO P4790.2
3.  MCO 4400.150
4.  MCO 4400.16 UMMIPS
5.  UM 4000-125 GCSS-MC User's Manual
6.  TM-4700-15/1H
8.  Desktop/Turnover
9.  FSMAO Checklist
7.  MCO 4400.160

MMGT-2101     2.0     *     B                                                      L

Goal.  Conduct an SL-3 inventory.

Requirement.  Given the references and a piece of equipment with its record jacket containing an SL-3 extract, perform the following:

1.  Validate inventory reference in SL 1-2.
2.  Verify UURI authorization.
3.  Identify and document on-hand, missing, or unserviceable components.
4.  Document completed inventory findings in the record jacket.
5.  Initiate supply action to replace missing and/or unserviceable components.
6.  Obtain a "supervised by" signature.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  MCO P4790.2
3.  Applicable equipment SL-3 or TM

MMGT-2102     1.0     *     B                                                      L

Goal.  Initiate a service request.

Requirement.  Given a piece of equipment requiring a service request, NAVMC 1018, and a computer with GCSS access, perform the following:

1.  Fill out a NAVMC 1018 Inspection/Repair Tag (IRT).
2.  Login to GCSS.

3. Open a new service request.
4. Forward service request to the next level IAW SOP.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. Appropriate GCSS access

Reference.
1. TM 4700-15/1H
2. MCO P4790.2
3. MCBUL 3000
4. MCO 4400.16
5. Unit MMSOP
6. UM 4000-125 GCSS-MC User's Manual

MMGT-2103     1.0     *     B                                                    L

Goal. Create a Preventive Maintenance Checks and Services (PMCS) schedule.

Requirement. Given an end item and applicable references, perform the following:

1. State the purpose of PMCS.
2. Identify the PM frequency.
3. Identify PM procedures.
4. Create a PMCS schedule.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 4700-15/1H
2. MCO P4790.2
3. Technical Manuals
4. UM 4400-125 GCSS-MC User's Manual

MMGT-2104     2.0     *     B                                                          L

Goal.  Submit a Product Quality Deficiency Report (PQDR).

Requirement.  Given the reference, equipment or a scenario:

1. State the criteria under which the PQDR should be submitted.
2. Complete the PQDR.
3. Explain the squadron's internal process for submitting a PQDR.
4. Identify the procedure to follow up with the PQDR.
5. Discuss external process flow of the PQDR.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. Unit MMSOP
3. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4. SECNAVINST 4855.5, Product Quality Deficiency Report Program

MMGT-2105     2.0     *     B                                                          L

Goal.  Identify the SECREP management process.

Requirement.  Given the references, perform the following:

1. Define the purpose of the SECREP management process.
2. Define the purpose of Critical Low Density SECREP exchange process.
3. Identify the key components of the SECREP exchange process.
4. Identify the key documentation within each component of the SECREP exchange process.
5. Identify the SECREP management re-computation process.
6. Identify Low Density SECREP assets.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  MCO 4400.150
3.  FEDLOG/WEBFLIS
4.  UM 4000-125 GCSS-MC User's Manual


MMGT-2106      4.0      *      B                                             L

Goal.  Explain equipment disposition procedures.

Requirement.  Given the reference and a scenario, conduct the following:

1.  State the purpose of equipment disposition.
2.  State the criteria under which an item should be processed for disposition.
3.  State the information required to submit a disposition request.
4.  State the submission procedures for a disposition request.
5.  State the method to follow up on disposition submissions.
    a.  GCSS-MC
    b.  Weekly Supply reconciliation.
6.  Explain disposition instruction.
4.  Ensure equipment is removed from the CMR as applicable.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2101, 2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Disposition Plan
2.  ULSS
3.  Equipment SL-3
4.  MCO P4400.82
5.  UM 4000-125 GCSS-MC User's Manual
6.  MMSOP
7.  MCO P4790.2


MMGT-2107      4.0      *      B,R                                           L

Goal.  Reconcile Global Combat Support System (GCSS) reports.

Requirement.  Given the reports listed in item 1 below:

1.  Identify the purpose of:
    a.  Maintenance Production Report (MPR).

   b. Equipment Status Report (ESR).
   c. Preventative Maintenance Report.
   d. Calibrations Report.
   e. Modification Instruction report.
   f. Maintenance Management Report (MMR).
   g. Due and status file (DASF).
   h. Service Request (SR).
      (1) Tasks.
      (2) Notes.
      (3) Parts Requirements.
    i. Sub-Inventory.
      (1) Layette
      (2) Stage
      (3) Demand Supported Items (DSI)
   l. Oracle Installed Base.
      (1) Parent/Child Relationships.
2. Identify the type of information contained in each of the forms listed above.
3. Identify the status of a parts requisition.
4. Identify proper use of UMMIPS priorities.
5. State item requisition priorities.
6. Reconcile all items listed above and list all errors found in each form.
7. Explain how to maintain a layette bin.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. MCBUL 3000
3. MCO P4400.16
4. DLA Handbook
5. Unit MMSOP
6. UM 4400-125 GCSS-MC User's Manual


MMGT-2108     1.0      *      B                                                          L

Goal.  Verify inventory control procedures are implemented.

Requirement.  Given an equipment record and SL-3:

1. Validate inventory results.
2. Validate parts requisition details.
3. Ensure service request is created within GCSS-MC.
4. Ensure parts requirement for unserviceable items are created within GCSS-MC.
5. Ensure inventory records are updated to reflect current status:

a. Item on-hand availability status.
b. Parts requisition status.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4400.150
2. MCO P4790.2
3. UM 4000-125 GCSS-MC User's Manual


MMGT-2109     2.0     *     B                                                    L

Goal.  Draft a Table of organization and equipment (TO&E) Change Request (TOECR).

Requirement.  Given a scenario and applicable references:

1. Pull TO&E via the Total Force Structure Management System (TFSMS).
2. Identify the information contained in the Table of Organization and Equipment (T/O&E).
3. Justify the requirement for change.
4. Identify compensation for T/O changes when possible.
5. Identify requirements for mirroring.
6. Complete TOECR.
7. Provide a copy of the TOECR to the instructor for review and validation.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  Trainee must have a TFSMS account prior to training in this event, Trainee must have Super User role in order to complete this event.

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 5311.1
2. Unit TO&E


MMGT-2110     2.0     *     B,R                                                    L

Goal. Identify the Marine Corps Urgent Needs Process (MCUNP)

Requirement. Given the references and a capability gap, complete the MCUNP form.
1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Complete an Urgent UNS form.
5. Complete a deliberate UNS form.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 11475
2. MCO 3900.17

MMGT-2111     2.0     *     B                                                    L

Goal. Induct new equipment into service.

Requirement. Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and validate the induction of new equipment into service.
1. Review the Users Logistics Support Summary (ULSS) or Material Fielding Plan (MFP).
2. Validate new equipment is properly placed into service.
   a. Ensure record jacket was created with proper documentation
IAW the reference.
   b. Ensure initial SL-3 Inventory is performed.
   c. Ensure an initial LTI was performed.
   d. Ensure induction of new equipment into calibration cycle  as required.
   e. Ensure equipment is accounted for and controlled IAW classification.
3. Verify appropriate entries to install base are made
4. Ensure equipment is added to the CMR as applicable.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Fielding Plan
2. ULSS
3. Equipment SL-3
4. MCO P4400.82
5. UM 4000-125 GCSS-MC User's Manual
6. MMSOP
7. MCO P4790.2

MMGT-2112    2.0    *    B                                                          L

Goal. Identify the types of funds.

Requirement. Given the references, identify the governing regulations, to include the purpose and time for the following:

1. O&M
   a. Marine Corps
   b. Navy
2. PMC
3. RDT&E
4. MILCON

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. DoD Financial Management Regulation [DoD 7000.14-R (FMR) Volume 2A, Chapter 1]

4.10.8 DEPLOYMENT (DEPL) STAGE

4.10.8.1 Purpose. To provide the core skills required to deploy Marine Air Command and Control Systems (MACCS) equipment, to include planning, crew management, system configuration management, and setup procedures.

4.10.8.2    General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

DEPL-2130      2.0      *      B,R                                              L

    Goal.  Write a packing list.

    Requirement.  Given the references, perform the following:

    1.  Define the purpose of a packing list.
    2.  Describe essential packing list contents.
    3.  Complete a packing list.

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  None

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.
    1.  Unit SOP


DEPL-2131      2.0      *      B                                                L

    Goal.  Extract key information from communication planning documents.

    Requirement.  For each of the following documents, Identify the purpose of and the location of key information contained within:

    1.  Guard Chart.
    2.  Communication Electronic Operating Instruction (CEOI).
    3.  Operations Order.
    4.  Annex K of the Operations Order.
    5.  Annex U of the Operations Order.
    6.  Site Diagram.
    7.  Operational Tasking Data Link (OPTASKLINK).
    8.  Identify who is responsible for creating and disseminating the OPTASKLINK.
    9.  EKMS/KMI Callout.
    10.  Satellite Access Authorization (SAA)

    Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  None

    Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 5-1
2.  MCWP 3-40.3
3.  ACEOI
4.  OPTASKLINK
5.  EKMS/KMI Callout
6.  Operational Order
7.  SAA
8.  Guard Chart


DEPL-2132        4.0      *        B                                                    L

Goal.  Determine supply support requirements.

Requirement.  Given the reference and a 30 day operational scenario, perform the following:

1.  Determine supply needs with consideration of the following:
    a.  Location.
    b.  Equipment.
    c.  Daily operations.
    d.  Climate.
2.  Identify SECREP requirements and deficiencies.
3.  Identify bill of material (BOM) requirements.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Operational Order
3.  CMR


DEPL-2133        4.0      *        B,R                                                  L

Goal.  Identify power requirements.

Requirement.  Given a scenario and references, perform the following:

1.  List all PEIs required to support the scenario.
2.  Determine power requirements for each  PEI.

3. Determine power requirements for all ancilliary and support equipment.
4. Determine total power requirements.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2022

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Technical Manuals

DEPL-2134     1.0    *     B                                    L

Goal. Fill out a Logistics Support Request (LSR).

Requirement. Given a scenario, fill out a request for:

1. Transportation.
2. Material Handling Equipment (MHE).
3. Supplies.
4. Personnel.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Unit SOP

DEPL-2135     8.0     1095    B,R,M                            L

Goal. Conduct a site survey.

Requirement. Given a scenario, applicable references, a TO/E and operational tasking, determine an appropriate site for system emplacement by performing the following:

1. Use planning tools to determine terrain masking and line of sight connectivity.

2.  Determine a primary and secondary site location.
3.  Identify obstructions and hazards.
4.  Determine tactical orientation and equipment emplacement.
    a.  Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Fuels (HERF) regulations.
    b.  Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Ordinance (HERO) regulations.
    c.  Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Personnel (HERP) regulations.
    d.  Ensure emitters are emplaced to support working area.
5.  Identify the placement for vehicles.
6.  Identify the placement for antennas.
7.  Determine communications obstacles.
8.  Determine system grounding requirements.
9.  Identify power and fuel requirements.
10. Determine protection from the elements.
11. Determine Terrain Masking.
12. Determine operational footprint.
13. Design a site layout and submit to the instructor.
14. Develop a brief that addresses all event requirement items.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2022, 2133

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Technical Manuals
2. Operational Order
3. CMR
4. MCWP 3-25.4
5. MCWP 5-1
6. MCO 5104.2
7. MCO 5104.3B


DEPL-2136      4.0      *      B                                                           L

Goal.  Write an Equipment Density List (EDL).

Requirement.  Given the references and a 30 day scenario, perform the following:

1. Define the purpose of an EDL.
2. Describe essential EDL contents.
3. Complete an EDL.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 4-11.3 Unit Embarkation Handbook
2.  Unit SOP
3.  Technical Manuals


DEPL-2137        8.0        *        B                                                                L

Goal.  Develop an embarkation plan.

Requirement.  Given the references and a 30 day operational scenario, perform the following:

1.  State the purpose of an embarkation plan.
2.  Produce an equipment density list (EDL).
3.  Produce Logistics documents as required.
4.  Identify heavy equipment required to move EDL items.
5.  Identify the modes of transportation required to move EDL items.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2134, 2136

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Unit SOP
3.  MCRP 4-11.3G Unit Embarkation Handbook


DEPL-2138        8.0        *        B                                                                L

Goal.  Complete a Bill of Material (BOM) request.

Requirement.  Given TEEP documents and references, perform the following:

1. Collect requests from maintenance sections.
2. Consolidate required materials into a BOM request.
3. Verify the request is sufficient to support 24 hour operations and for the length of the exercise, validate the content to ensure that it meets sustained operational requirement.

4. Submit a BOM request to the Maintenance Officer

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2132

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  Operational Order
3.   Technical Manuals
4.  Unit SOP


DEPL-2139        3.0        *        B                                                                       L

Goal.  Describe common agency doctrinal nets.

Requirement.  Given a list of doctrinal net names in acronym format and references, perform the following:

1.  Define each net acronym.
2.  Describe function for each net.
3.  State the frequency spectrum doctrinally used for each net.
4.  Identify agencies required to guard each net.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 3-40.3


DEPL-2140        2.0        1095     B,R,M                                                                   L

Goal.  Identify spectrum management procedures.

Requirement.  Given the references and a scenario with operational requirements, perform the following:

1. Identify frequency requirements.
    a. Identify submission timelines.
    b. Identify data elements (-Freq, Location, Power, Dates).
2. Identify Satellite Access requirements.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 3-40.3B
2. MCO 2400.2
3. MCWP 3-40.3

DEPL-2141    8.0    *    B                                                        L

Goal. Identify communication service requirements.

Requirement. Given the references and a scenario with operational requirements, perform the following:

1. Identify submission timelines.
2. Identify data elements.
    a. Internet protocol addresses.
    b. Location, user accounts.
    c. Dates.
    d. Phone lines.
    e. C2 application support.
        (1) Identify mission specific software requirements
        (2) Verify software version compatability (JAVA, Browsers, etc.)
    f. Data network services (NIPR/SIPR/Theater specific).
    g. Firewall exemptions.
    h. Provide Authority to Connect (ATC)/Authority to Operate (ATO) documention for all required systems.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 3-40.3B Radio Operator's Handbook
2. Operational Order
3. MCWP 3-40.3
4. Unit SOP

DEPL-2142     2.0     *     B                                                   L

Goal.  Identify crew requirements and write a crew schedule.

Requirement.  Given operational tasking, references, section roster, and MSHARP crew report, perform the following:

1. Determine the duration of operations.
2. Determine total crews required to support the mission.
3. Determine the crew composition/requirements.
4. Write the crew schedule.
5. Submit the crew schedule to the instructor.
6. Describe the process to publish crew schedule once validated.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. T&R Manual
2. MCWP 3-25.4

DEPL-2143     4.0     1095     B,R,M                                        L

Goal.  Develop data recovery management plan.

Requirement.  With the aid of reference, develop a data management plan for organic systems including:

1. Purpose for data backup
2. Backup frequency
3. Scheduling/Deconfliction
4. Backup storage locations
5. Levels of backup
6. Backup disposition
7. Document as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. User manuals
2. Commercial resources

4.10.9 SYSTEM ADMINISTRATION (SYSAD)

4.10.9.1 Purpose. To provide the mission skills necessary to safely embark, setup, operate, maintain, administor, and integrate tactical data systems within the Marine Air Command and Control System (MACCS) and external agencies.

4.10.9.2    General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

SYSAD-2250    4.0    *    B,R                                    AN/TSQ-273    L

Goal. Configure workstation.

Requirement. Given an emplaced system and an operational requirement or scenario, perform the following:

1. Energize workstation.
2. Configure workstation.
   a. Host name.
   b. IP address.
   c. Mission required software/applications
3. Conduct operational status check.
4. Document any changes to system configuration as required.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual

SYSAD-2251     2.0     *     B,R                                    AN/TSQ-273     L

Goal.  Configure Peripherals

Requirement.  Given an emplaced system, perform the following:

1. Energize peripherals.
2. Configure peripherals.
   a. Host name, as required
   b. IP address, as required
3. Conduct operational status check.
4. Document any changes to system configuration as required.
5. Explain the differences between the various printer types and summarize the associated imaging process.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 12041A/15050A-OD/2 CAC2S System User Manual
2. TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual

SYSAD-2252     2.0     *     B,R                                    AN/TSQ-273     L

Goal.  Perform logfile management on a tactical data system.

Requirement.  With  the aid of reference, perform the following:

1. Monitor logfiles.
2. Save logfiles.
3. Empty logfiles.
4. Document as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/15050A-OD/2 CAC2S System User Manual
2.  TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual


SYSAD-2253     4.0     *        B,R                                                    AN/TSQ-273     L

Goal.  Apply Software release updates.

Requirement.  With the aid of reference, perform the following:

1.  Schedule software release installation.
2.  Install software release updates.
3.  Test system software and applications.
4.  Backup systems as required.
5.  Document as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/15050A-OD/2 CAC2S System User Manual
2.  TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual


SYSAD-2254     3.0     *        B,R                                                    AN/TSQ-273     L

Goal.  Update firmware for Command and Control Systems.

Requirement.  With the aid of reference, perform the following:

1.  Verify version of firmware on equipment.
2.  Update to current fielded firmware version as required.
3.  Document changes as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/15050A-OD/2 CAC2S System User Manual
2.  TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual

SYSAD-2255     2        *        B,R                                              AN/TSQ-273      L

Goal.  Manage ADPE

Requirement.  Given a locally developed site diagram, a checklist, applicable references, materials, and required equipment:

1.  Setup ADPE
2.  Install ADPE software IAW requirements
3.  Configure ADPE IAW requirements
4.  Maintain ADPE IAW requirements
5.  Implement Data Backup and Recovery

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2041, 2250, 2251, 2252, 2253, 2254

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Essential System Administration 3rd edition ISBN # 0-596-0034-9
2.  Marinenet – CompTIA Server+
3.  Marinenet- CompTIA A+
4.  MarineNet Course "CompTIA A+ 220-801: Memory - Expansion Cards and Storage Devices" course code - CSAPELA02
5.  MarineNet Course "CompTIA A+ 220-801: CPUs - Connections - and Power Supplies" course code - CSAPELA03
6.  TM 12041A/15050A-OD/2 CAC2S System User Manual
7.  TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual

SYSAD-2256     2        *        B                                                AN/GYK-60      L

Goal.  Setup AFATDS Equipment.

Requirement.  Given a locally developed site diagram, applicable references, materials, and required equipment:

1. Emplace components.
2. Cable components
3. Energize components.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 7025-OR/ Series
2. MarineNet AFATDS course AFATAA0000
3. Site diagram


SYSAD-2257      2.0      0      B                                              AN/GYK-60      L

Goal.  Install AFATDS Software

Requirement.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Install Software
2. Verify installation

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 7025-OR/ Series
2. MarineNet AFATDS course AFATAA0000
3. Site diagram


SYSAD-2258      2      1095      B,R,M                                        AN/GYK-60      L

Goal. Configure AFATDS

Requirement. Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Configure Network Settings
2. Configure Time Settings
3. Configure JMUL
4. Configure external interfaces

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 7025-OR/ Series
2. MarineNet AFATDS course AFATAA0000
3. Site diagram


SYSAD-2259    2    1095    B,R,M                                    AN/GYK-60    L

Goal. Maintain the AFATDS.

Requirement. Given an AFATDS, applicable references, materials, and equipment:

1. Verify COMM Channel status
2. Verify JREAP status
3. Log Files Check
4. Network Time Check
5. Trouble Shoot error(s)
6. Initiate corrective maintenance action if required.
7. Conduct an operational status check.
8. Perform PMCS

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2257, 2258

Ordnance. None

Range. None

External Syllabus Support.  None

Reference.
1.  TM 7025-OR/ Series
2.  MarineNet AFATDS course AFATAA0000
3.  Site diagram


SYSAD-2276     6       *       B                                                                AN/TSQ-273     L

Goal.  Setup the Processing Display System (PDS)

Requirement.  As a member of a crew, given a locally developed site diagram, references, materials, and required equipment, perform the following:

1.  Emplace system.
2.  Cable system.
3.  Emplace Environmental safety equipment.
4.  Energize components.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/1 System Users Manual (SUM)


SYSAD-2277     40       0       B                                                                AN/TSQ-273     L

Goal.  Install PDS Software

Requirement.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1.  Install Software
2.  Verify installation

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/1 System Users Manual (SUM)


SYSAD-2278     4          1095     B,R,M                                                          AN/TSQ-273     L

Goal.  Configure the PDS

Requirement.  Given a locally developed site diagram, references, materials, and required software:

1.  Configure network settings.
2.  Configure time settings.
3.  Configure system specific software

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/1 System Users Manual (SUM)


SYSAD-2279     4          1095     B,R,M                                                          AN/TSQ-273     L

Goal.  Maintain the PDS

Requirement.  Given a PDS, applicable references, materials, and equipment:

1.  Update DNS.
2.  Update Active Directory.
3.  Verify Windows Services are running.
4.  Verify Global Share availability.
5.  Update system passwords.
6.  Terminate stale connections.
7.  Make changes to display system.
8.  Perform system backups.
9.  Log Files Check.
10.  Network Time Check.
11.  Trouble Shoot error(s).
12.  Conduct an operational status check.

13.  Perform PMCS
14.  Initiate corrective maintenance action if required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2276, 2277, 2278

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2.  TM 12041A/12050-OD/1 System Users Manual (SUM)


SYSAD-2280      2        0        B                                                    TCW     L

Goal.  Setup the Tactical COP Workstation (TCW)

Requirement.  Given a locally developed site diagram, applicable references, materials, and required equipment:

1.  Emplace components.
2.  Cable components
3.  Energize components.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  JTCW Documentation and Install Guide.


SYSAD-2281      2        0        B                                                    TCW     L

Goal.  Install TCW Software

Requirement.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Install Software
2. Verify installation

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. JTCW Documentation and Install Guide.


SYSAD-2282     2          1095     B,R,M                                                                TCW     L

Goal.  Configure TCW Equipment

Requirement.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Configure Network Settings
2. Configure Time Settings
3. Configure JTCW gateway

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. JTCW Documentation and Install Guide.


SYSAD-2283     2          1095     B,R,M                                                                TCW     L

Goal.  Maintain TCW Equipment

Requirement.  Given a TCW, applicable references, materials, and equipment:

1. Maintain the JTCW connections.
   a. Client connection(s).

b. Gateway connection.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2280, 2281, 2282

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. JTCW Documentation and Install Guide.


SYSAD-2284     2        0        B                                                                    AN/GYK-62      L

Goal.  Setup the Blue Force Tracker (BFT) Tactical Operations Center (TOC) Kit

Requirement.  Given a locally developed site diagram, applicable references, materials, and required equipment:

1. Emplace components.
2. Cable components
3. Energize components.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM-11180B-OR/1 Operator/Crew Manual with components and repair list
2. TM-11180A-IN/1 Field Maintenance Manual including Repair Parts and Special Tool List


SYSAD-2285     2        0        B                                                                    AN/GYK-62      L

Goal.  Install BFT TOC Kit Software/Firmware

Requirement.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Install Software/Firmware

2. Verify installation

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM-11180B-OR/1 Operator/Crew Manual with components and repair list
2.  TM-11180A-IN/1 Field Maintenance Manual including Repair Parts and Special Tool List


SYSAD-2286      2          1095      B,R,M                                                    AN/GYK-62      L

Goal.  Configure the BFT TOC Kit

Requirement.  Given a locally developed site diagram, references, materials, and required software:

1.  Configure network settings.
2.  Configure time settings.
3.  Configure system specific software

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM-11180B-OR/1 Operator/Crew Manual with components and repair list
2.  TM-11180A-IN/1 Field Maintenance Manual including Repair Parts and Special Tool List


SYSAD-2287      2          1095      B,R,M                                                    AN/GYK-62      L

Goal.  Maintain the BFT TOC kit

Requirement.  Given a BFT TOC Kit, applicable references, materials, and equipment:

1.  Maintain the GPS connection
2.  Maintain the network connection.

3. Conduct PMCS
4. Verify modifications and technical instructions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2284, 2285, 2286

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM-11180B-OR/1 Operator/Crew Manual with components and repair list
2. TM-11180A-IN/1 Field Maintenance Manual including Repair Parts and Special Tool List

4.10.10  TACTICAL DATA LINK(TDL) STAGE

4.10.10.1  Purpose.  These events will instruct MACCS agency watch standers on Tactical Data Links.  To provide the core Tactical Data Link (TDL) skills necessary for operations, maintenance, and management to support mission objectives using current tactical data systems and standardized TDLs.

4.10.10.2  General

> Prerequisite. None
>
> Admin Notes. None
>
> Crew Requirements. None

TDL-2800          10          1095          B,R,M                                                                G

> Goal.  Identify the purpose of documents that enable Tactical Data Link (TDL) operations.
>
> Requirement.  Given the documents below, identify their purpose:
>
> 1. Guard Chart.
> 2. Communication Electronic Operating Instruction (CEOI).
> 3. Operations Order Annex K.
> 4. Operations Order Annex U.
> 5. Link 16 Network Description Document.
> 6. Communications Security (COMSEC) Callout.
> 7. Operational Tasking Data Link (OPTASK LINK).
> 8. Satellite Access Authorization (SAA).
> 9. Joint Multi-TDL Operating Procedures (JMTOP).
>
> Performance Standard.  With the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 5-1, Marine Corps Planning Process
2.  MCWP 3-40.3, MAGTF Communications Systems
3.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)


TDL-2801          10          1095     B,R,M                                                                  G

Goal.  Identify TACC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.4, Tactical Air Command Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2802          10          1095     B,R,M                                                                  G

Goal.  Identify TAOC and EW/C voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.

3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.7, Tactical Air Operations Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2803        10        1095      B,R,M                                                                    G


Goal.  Identify DASC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.5, Direct Air Support Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2805        10        1095      B,R,M                                                                    G

Goal.  Identify LAAD voice and data communications equipment.

Requirement.  Given the references, identify the following:

1. Radio systems.
2. Data link systems.
3. C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.10, Low Altitude Air Defense Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5. Unit T/O and T/E


TDL-2806          10          1095      B,R,M                                                                 G

Goal.  Identify MATC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1. Radio systems.
2. Data link systems.
3. C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.8, Marine Air Traffic Control Detachment Handbook
3. Approved Core METL applicable to the unit

4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2808          10        0        B                                                                      G

Goal.  Describe the Joint Data Network.

Requirement.  1. Define the Joint Data Network (JDN).
2. State the responsibilities of the Joint Data Network Operations Officer (JDNO).
3. State the purpose of the Global Command and Control System (GCCS) Family of Systems (FoS).
4. Define Common Operational Picture (COP).
5. Define Common Tactical Picture (CTP).
6. Define Tactical Picture.
7. State the components of the CTP.
8. Describe track management.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 3115.01: Volume 1, Joint Data Network Operations
2. CJCSM 3115.02: Volume 2, Common Tactical Picture Data Management
3. CJCSI 3115.01, CTP Reporting Requirements
4. CJCSI 3151.01B, GCCS COP Reporting Requirements


TDL-2809          20        1095      B,R,M                                                                  G

Goal.  Describe the Multi-Tactical Data Link (TDL) Interface.

Requirement.  Perform the following:

1.  State the concept and information exchange of the Multi-TDL Interface.
2.  State the technical functions of the Multi-TDL Interface.
3.  List the three elements of the Multi-TDL Interface
4.  Define the Basic Interface and list its three data links.
5.  Identify the characteristics of Link 11
6.  Identify the characteristics of Link 11B
7.  Identify the characteristics of Link 16
8.  Define the Extended Interface.
9.  Identify the purpose of the Joint Range Extension Application Protocol (JREAP).
10. Define the following interface voice coordination nets:
    a.  Air Defense Command and Control Net (ADCCN)
    b.  Engagement Control Net (ECN)
    c.  Datalink Coordination Net (DCN)

    d. Track Supervision Net (TSN)
    e. Voice Product Net (VPN)
11. Describe the delegation of responsibilities for the conduct of the Multi-TDL operations at the Joint Task Force (JTF) level and below.
12. State the two Interface Control Officer (ICO) execution functions.
13. State the responsibilities of the Link 16 Manager.
14. State the responsibilities of the Link 11/11B Manager.
15. State the responsibilities of the Track Data Coordinator (TDC).
16. List the minimum requirements for Services that operate the Multi-TDL Interface.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard


TDL-2815      10      0      B                                              G

Goal. State the Characteristics of Link 11

Requirement. 1. Define the following Link 11 station modes of operation:
    a. Net Control Station (NCS)
    b. Picket
    c. Radio Silence
2. Define the following Link 11 net modes of operation:
    a. Roll Call
    b. Broadcast (Long)
    c. Short Broadcast
    d. Net Sync
    e. Net Test
3. State the purpose of the following Link 11 waveforms:
    a. Conventional Link 11 Waveform (CLEW)
    b. Single Tone Link 11 Waveform (SLEW)
4. Describe the characteristics of the following Link 11 data encryption modes:
    a. A1
    b. A2
    c. B
    d. Plain Text
5. Define Data Link Reference Point, and state typical usage criteria and limitations.
6. Describe Link 11 Gridlock.
7. Define Net Cycle Time

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-2816        10        0        B                                                                    G

Goal.  State the characteristics of Link 11B

Requirement.  1.  State the communications mediums that Link 11B can be transmitted over.
2.  State the most common encryption devices used for Link 11B.
3.  State the purpose of "strapping," with respect to Link 11B encryption devices.
4.  Define the following Link 11B data transmission modes:
a.  Limited Transmission of Data (LTD) mode.
b.  Full Transmission of Data (FTD) mode.
5.  Define Data Link Reference point, and state typical usage criteria and limitations per the Joint Multi-TDL Operating Procedures.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-2818        30        0        B                                                                    G

Goal.  State the characteristics of Link 16

Requirement.  Perform the following:

1.  Identify terminal capacity of a Link 16 terminal.

2.  Identify spectral capacity of a Link 16 network.
3.  Identify the two types of security used by Link 16.
4.  Identify the organization of a Secure Data Unit (SDU).
5.  Identify the purpose of the JANUS Table.
6.  Identify the two range modes associated with Link 16.
7.  Define direct connectivity.
8.  Define relayed connectivity.
9.  Identify the purpose of an Initialization Data Load (IDL).
10.  Locate the website and phone number of the USMC Network Design Facility (NDF).
11.  Define time division multiple access.
12.  Identify the acceptable time error when initializing a Link 16 terminal.
13.  Explain the synchronization process and the importance of each message in the synchronization process:
    a.  Precise Participate Location and Identification (PPLI)
    b.  Initial Entry Message (IEM)
    c.  Round Trip Timing (RTT) Message
14.  Identify the two Link 16 duties that transmit the IEM.
15.  Identify the frequency range used by Link 16.
16.  State the purpose of pulse deconfliction.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. CJCSI 6232.01, Link 16 Spectrum Deconfliction

TDL-2819     20     0     B                        G

Goal.  State the characteristics of the Joint Range Extension Application Protocol (JREAP).

Requirement.  Perform the following:

1.  Describe JREAP A.
2.  Select the data rates of JREAP A.
3.  Describe JREAP A roles.
4.  Describe the JREAP A Transmission Sequence List (TSL).
5.  Explain the difference between JREAP A and Satellite J.
6.  Describe JREAP B.
7.  Describe JREAP B modes of operation.
8.  Select JREAP B data rates.
9.  Describe JREAP C.
10. Describe JREAP C modes of operation.
11. Define the following terms associated with JREAP:

  a. Common Time Reference
  b. Demand Assigned Multiple Access (DAMA)
  c. Joint Range Extension (JRE)
  d. JRE Network Controller
  e. JRE Source Track Number
  f. Link 16 Zone
  g. Multicast
  h. Packet
  i. Port
  j. Secondary Track Number
  k. Token Passing
  l. Unicast

<u>Performance Standard.</u> Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

<u>Instructor.</u> BI

<u>Prerequisite.</u> 2809

<u>Ordnance.</u> None

<u>Range.</u> None

<u>External Syllabus Support.</u> None

<u>Reference.</u>
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-3011, JREAP Interface Standard

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TDL-2823   10   0   B               G

<u>Goal.</u> State the characteristics of the Variable Message Format (VMF).

<u>Requirement.</u> Given the reference, explain:

1. The purpose of Variable Message Format (VMF) messages
2. The characteristics of VMF messages
3. VMF message functional areas
4. Transmission medium options used to exchange VMF messages
5. Unit Reference Numbers
6. How URNs are assigned
7. The purpose of the K01.2 Unit Reference Query/Response message
8. Position reporting requirements of VMF units
9. The purpose of a K05.1 Position Report
10. The purpose of a K04.1 Observation Report
11. VMF multi-cast groups
12. K Series and J Series data forwarding

<u>Performance Standard.</u> With the aid of reference, state (verbally or written) the required items.

<u>Instructor.</u> BI

<u>Prerequisite.</u> None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 3115.0, Joint Data Network Operations
2. CJCSM 6120.0, Joint Multi-TDL Operating Procedures (JMTOP)
3. MIL-STD-188-220, Digital Message Transfer Device Subsystems
4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
6. MIL-STD-6017, VMF Interface Standard
7. MIL-STD-6020, Data Forwarding Between TDLs


TDL-2826          10        0        B                                                              G

Goal. State the characteristics of Cooperative Engagement Capability (CEC)

Requirement. Given the references:

1. State the purpose of CEC.
2. State the characteristics of the CEC network.
3. Identify the Navy platforms capable of participating in the CEC network.
4. State the Marine Corps equipment required to interface with CEC.

Performance Standard. Pass an exam.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TACMEMO 3-01.3-12 CEC Tactical Employment Guide, Feb 2012
2. USN Capabilities and Limitations website http://cnl.phdnswc.navy.smil.mil/
3. Navy CEC Fact Sheet
4. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16


TDL-2827          2        0        B                                                              L

Goal. Configure the Joint Range Extension (JRE)

Requirement. Given JRE hardware and software:

1. Emplace components.
2. Cable components.
3. Energize components.
4. Install the operating system(s).

5. Configure the operating system(s).
6. Install JRE software.
7. Install software patches.
8. Configure JRE software.

Performance Standard.  Complete the requirements IAW the    references.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. JRE Software Users Guide
3. JRE Installation and Configuration Guide


TDL-2828          2          0          B                                                              L


Goal.  Operate a Joint Range Extension (JRE) Gateway

Requirement.  Given a JRE server and client, and an OPTASK LINK:

1.  Connect the Windows JRE client to the JRE Solaris server.
2.  Inspect/Configure own unit configuration to include:
   a.  JU Address
   b.  PPLI Message Format
   c.  Unit Position Source
   d.  Unit Position Location
   e.  Elevation
   f.  J13.5 System Status
3.  Configure JRE client software to include:
   a.  Client applications Settings.
      (1) Create client roles and permissions
      (2) Add clients
   b.  Configure Raster maps.
   c.  Configure eDERG for monitoring and recording.
4.  Configure the JRE for the following data links:
   a.  Link 16
   b.  JREAP A
   c.  JREAP B
   d.  JREAP C
5.  Configure filters IAW the OPTASK LINK.
6.  Inspect link configurations.
7.  Utilize the connection matrix to transmit data over the appropriate link IAW the forwarding plan
8.  Utilize the connection matrix to receive data over the appropriate link

Performance Standard.  Complete the requirements IAW the references. Tactical Data System (TDS) administrators may assist with steps (1) and (3) only.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Qualified TDS crew.

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  JRE Version 5.3.x Software User Guide


TDL-2829        2        0        B                                                                L

Goal.  Configure the Air Defense System Integrator (ADSI)

Requirement.  Given ADSI hardware and software:

1. Emplace components.
2. Cable components.
3. Energize components.
4. Install the operating system(s).
5. Configure the operating system(s).
6. Install ADSI software.
7. Install software patches.
8. Configure ADSI software.

Performance Standard.  Complete the requirements IAW the    references.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  ADSI Software Users Guide
3.  ADSI Installation and Configuration Guide


TDL-2830        2        0        B                                                                L

Goal.  Operate an Air Defense Systems Integrator (ADSI)

Requirement.  Given an OPTASK LINK and operational ADSI; using the TSD:

1.  Inspect/Configure own unit configuration to include:
    a.  JU Address

   b.  PPLI Message Format
   c.  Unit Position Source
   d.  Unit Position Location
   e.  Elevation
   f.  J13.5 System Status
3.  Configure DERG for monitoring and recording.
4.  Configure the ADSI for the following data links:
   a.  Link 11
   b.  Link 11B
   c.  Link 16
   d.  JREAP A
   e.  JREAP B
   f.  JREAP C (TCP/IP and UDP/IP)
5.  Configure filters IAW the OPTASK LINK.
6.  Inspect link configurations.
7.  Utilize the forwarding matrix to transmit data over the appropriate link IAW the forwarding plan
8.  Utilize the forwarding matrix to receive data over the appropriate link

Performance Standard.  Complete the requirements IAW the references.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  ADSI Version 14.1.1 Software Users Guide
3.  ADSI Version 14.1.1 Installation and Configuration Guide

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TDL-2831      2      0      B                                            L

Goal.  Setup Link 11 Equipment

Requirement.  Given the references, operational documents, and a C2 system with a MIL-STD-6011 compliant data link management software suite:

1.  From operational documents determine frequency(ies) and mode of operations to be employed.
2.  Select and set-up appropriate antenna(e) for planned operations.
3.  Connect antenna(e) via RF cable(s) to host system signal entry patch panel or radio
4.  Verify that the data terminal set, encryption device, and radio(s) are properly cabled to each other, the host system and/or data link manager.
5.  Energize the encryption device.
6.  Configure the encryption device for operation.
7.  Load appropriate keying material into encryption device as determined from operational documents.
8.  Energize the data terminal set.
9.  If necessary, configure the data terminal set for planned operations.
10.  Energize the radio(s).
11.  Configure radio(s) for planned operations.
12.  Energize or start the data link manager.

13. Log into the data link manager.
14. Configure data link manager for link 11 operations per operational documents.
15. After confirming with ICO/DLC, initialize link.
16. Verify link is operating properly.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. C2 System Technical Manual


TDL-2832        8        0        B                                                    L

Goal.  Operate Link 11.

Requirement.  Given the references, operational documents, and a C2 system:

1. Extract required information from the OPTASK LINK.
2. Input the required database entries.
3. Enter and activate filters.
4. Verify equipment is correctly configured.
5. Verify cryptographic equipment is keyed.
6. Enter / exit link IAW published procedures.
7. Operate in the following modes:
   a. Radio Silent.
   b. Net Control Station (NCS).
   c. Picket.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  Link 11 capable platform(s).

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)

2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. C2 System Technical Manual

TDL-2835     2     0     B                                                              L

Goal. Setup  Link 16 Equipment.

Requirement. Given the references, operational documents, and a C2 system with a MIL-STD-6016 compliant data link management software suite and link 16 radio:

1. Review the operational documents and ensure the correct IDL files for your host system are on hand.
2. Set-up Link-16 antenna.
3. Connect antenna via appropriate RF cable to host system signal entry patch panel or Link 16 radio.
4. Verify that the link-16 radio is properly cabled to itself, the host system and/or data link manager for Link-16 data and voice operations.
5. Energize the link-16 radio.
6. Load the appropriate keying material into the correct slot of the link 16 radio per operational documents.
7. Log into the data link manager and configure data link manager for Link 16 operations per operational documents.
8. Load the correct IDL from the data link manager to the link 16 radio per the operational documents.
9. Load the correct time from the data link manager to the link 16 radio per the operational documents.
10. After confirming with ICO/DLC, initialize the link.
11. Verify link is operating properly.

Performance Standard. Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2800, 2809

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual

TDL-2836     8     0     B                                                              L

Goal. Operate Link 16.

Requirement. Given an OPTASK LINK, Network Description Document (NDD), and a C2 system:

1. Extract required information from the OPTASK LINK.
2. Enter required database entries per the OPTASK LINK.
3. Enter and activate filters per the OPTASK LINK.
4. Identify Stacked Net assignments for voice and air control.
5. Enter and valid stacked net assignments in the database.
6. Obtain the Link 16 initialization data load (IDL) from the USMC Network Design Facility.

7.  Perform Link 16 pulse deconfliction.
8.  Verify equipment is configured correctly.
9.  Verify the cryptographic equipment is keyed.
10.  Load the appropriate time.
11. Load the IDL.
12. Enter/exit link IAW published procedures.
13. Achieve fine synchronization with another interface unit.
14. Operate in/as the following:
   a.  Radio Silent or data silent.
   b.  Network Time Reference  (NTR).
   c.  Initial Entry JTIDS Unit (IEJU).

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual

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TDL-2837        2        0        B                                                                          L

Goal.  Setup  JREAP-A Equipment.

Requirement.  Given a MIL-STD-3011 compliant data link manager, SATCOM radio assets, Satellite Access Authorization (SAA), and OPTASK LINK:

1.  Extract satellite communications information from the SAA.
2.  Emplace SATCOM antenna at correct azimuth and elevation determined from the SAA.
3.  Connect SATCOM antenna to SATCOM radio via appropriate RF cable.
4.  Verify that SATCOM radio and data link manager are properly cabled together for JREAP A operations.
5.  Energize SATCOM radio.
6.  Configure SATCOM radio for JREAP A operations per the SAA.
7.  Load appropriate keying material into the SATCOM radio per the SAA.
8.  Make a call to the satellite from the SATCOM radio.
9.  Determine if call was successful.
10. Log into the data link manager and configure for JREAP A operations per the OPTASK LINK.
11. After verifying with ICO enter/exit link.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. SATCOM Radio Technical Manual
5. MIL-STD-3011, JREAP Interface Standard

TDL-2838          8          0          B                                                                    L

Goal.  Operate JREAP A.

Requirement.  Given a MIL-STD-3011 compliant system, SATCOM radio assets, Satellite Access Authorization (SAA), OPTASK LINK, and assistance from maintenance and communications sections:

1. Extract satellite communications information from the SAA.
2. Verify proper radio configuration for JREAP A operations.
3. Verify cryptographic equipment is keyed.
4. Verify JREAP A equipment is connected.
5. Verify the SATCOM antenna has the correct elevation and azimuth.
6. Build the JREAP A link in the MIL-STD-3011 compliant system.
7. Enter and activate filters in the MIL-STD-3011 compliant system.
8. Enable and disable the correct link connections.
9. Enter/exit link IAW published procedures.
10. Demonstrate the ability to operate in the following modes:
    a. Network Participant.
    b. Network Controller.
    c. Network Listener.

Performance Standard.  Successfully exchange tracks.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  JREAP-A capable platform(s).

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. SATCOM Radio Technical Manual
5. MIL-STD-3011, JREAP Interface Standard

TDL-2839          2          0          B                                                                    L

    Goal.  Setup  JREAP-B Equipment.

    Requirement.  Given a MIL-STD-3011 compliant data link manager, serial line encryption device, OPTASK LINK, and ANNEX K:

    1. From ANNEX K determine where appropriate telephone line for JREAP-B is being supplied.
    2. Verify the serial line encryption device is connected to the MIL-STD-3011 compliant system and telephone line.
    3. Build the JREAP B link in the MIL-STD-3011 compliant system.
    4. Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
    5. Enable and disable the correct link connections.
    6. Enter / exit link IAW published procedures.

    Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  2800, 2809

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.
    1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
    2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
    3. C2 System Technical Manual
    4. MIL-STD-3011, JREAP Interface Standard

TDL-2840          8          0          B                                                                    L

    Goal.  Operate JREAP B.

    Requirement.  Given a MIL-STD-3011 compliant system, a serial line encryption device, and assistance from maintenance and communications sections:

    1.  Verify the serial line encryption device is configured for JREAP B operations.
    2.  Verify the serial line encryption device is connected to the MIL-STD-3011 compliant system and telephone line.
    3.  Build the JREAP B link in the MIL-STD-3011 compliant system.
    4.  Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
    5.  Enable and disable the correct link connections.
    6.  Enter / exit link IAW published procedures.

    Performance Standard.  Successfully exchange information/data.

    Instructor.  BI

    Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  JREAP-B capable platform.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard


TDL-2841        2        0        B                                                    L

Goal.  Setup  JREAP-C Equipment.

Requirement.  Given a MIL-STD-3011 compliant data link manager, OPTASK LINK, and ANNEX K:

1.  Determine the following network information for the JREAP C interface:
a. IP Address.
b. Subnet Mask.
c. Default Gateway.
d. TCP/IP Port(s).
e. Role (Server or Client).
f. TCP/UDP Unicast or Multicast.
2.  Configure the required networking devices for JREAP C communication.
3.  Build the JREAP C link in the MIL-STD-3011 compliant system.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL STD 6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. MIL STD 3011, JREAP
4. C2 System Technical Manual


TDL-2842        8        0        B                                                    L

Goal.  Operate JREAP C.

Requirement.  Given a MIL-STD-3011 compliant system, SIPRNET access, and assistance from maintenance and communications sections:

1. Verify the MIL-STD-3011 compliant system is configured with the correct IP address.
2. Verify the MIL-STD-3011 compliant system is connected to the network.
3. Build JREAP C IP links in the MIL-STD-3011 compliant system.
a. TCP.
b. UDP Unicast.
c. UDP Multicast.
4. Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5. Enable and disable the correct link connections.
6. Activate and exchange information with JREAP-C (either TCP or UDP).

Performance Standard.  Successfully exchange information/data.

Instructor.  BI

Prerequisite.  2800, 2809

Ordnance.  None

Range.  None

External Syllabus Support.  JREAP-C capable platform.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

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TDL-2843          3          0          B                                                              L

Goal.  Troubleshoot Link 11.

Requirement.  Given a C2 system with a malfunctioning Link 11:

1. Determine if the internal data path being used for Link 11 is functional.
2. Determine if the Participating Unit is in the NCS's polling sequence.
3. Use transmit and receive quality to determine connectivity.
4. Select and monitor Link 11 messages.
5. Recognize and take appropriate action for an incorrect DLRP.
6. Recognize and take appropriate action for incorrect crypto.
7. Elevate unresolvable issues to the Crew Chief.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809, 2831, 2832

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. C2 System Technical Manual


TDL-2845          3          0          B                                                                L


Goal.  Troubleshoot Link 16.

Requirement.  Given a C2 system with a malfunctioning Link 16:

1. Determine if the internal data path being used for Link 16 is functional.
2. Verify direct connectivity exists with a Network Time Reference or an Initial Entry JTIDS Unit.
3. Recognize and take appropriate action for incorrect time.
4. Recognize and take appropriate action for incorrect crypto.
5. Recognize and take appropriate action for incorrect IDL.
6. Select and monitor Link 16 messages.
7. Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809, 2835, 2836

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual


TDL-2846          3          0          B                                                                L


Goal.  Troubleshoot JREAP A.

Requirement.  Given a C2 system with a malfunctioning JREAP A:

1. Use the SATCOM radio's receive signal strength orderwire (RSSOW) to troubleshoot antenna elevation and azimuth.
2. Troubleshoot the SATCOM radio's satellite connection status.
3. Determine if the unit's Interface Unit address is in the Network Controller's subscriber list.
4. Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809, 2837, 2838

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. SATCOM Radio Technical Manual
5. MIL-STD-3011, JREAP Interface Standard


TDL-2847          3         0          B                                                                    L

Goal.  Troubleshoot JREAP B.

Requirement.  Given a C2 system with a malfunctioning JREAP B:

1.  Verify distant end and local settings on the STEs.
2.  Verify KSV-21 has the appropriate crypto key.
3.  Identify low quality phones lines to the crew chief.
4.  Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809, 2839, 2840

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard


TDL-2848          3         0          B                                                                    L

Goal.  Troubleshoot JREAP C.

Requirement.  Given a C2 system with a malfunctioning JREAP C:

1.  Use the ping and trace route functions to determine if a network connection exists between two computers.
2.  Identify firewall exemptions to the communication's section to open blocked ports.

3.  Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2800, 2809, 2841, 2842

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard


4.11  MISSION SKILL TRAINING  (3000)

4.11.1  Purpose.  To provide Unit level instruction to develop the Mission skills necessary for an enlisted Marine to meet the requirements to support mission essential tasks.

4.11.2  General

4.11.2.1  Prerequisite.  Core Skill Introduction training phase must be completed prior to beginning this phase of training.

4.11.2.2  Admin Notes

    (1) Training in this phase does not preclude simultaneous training in the Mission Skill phases.

    (2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

    (3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable.  Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event.  Crewmember assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual properly demonstrating the event performance standard.

    (4) Academic Training.  Academic training will be conducted prior to and concurrently with required events.  An academic training event, once completed, can be credited as a prerequisite for follow-on training events.

    (5) Refresher Training.  Refresher training is required once a individual has been absent from a technician billet for 36 months or longer.  Upon return, the individual will complete R-coded events in the Attain table; else the technician will maintain proficiency by completing the R-coded events in the Maintain table.

    (6) In the current fiscally constrained environment, a commander may send his Marines, TECOM funded, TAD to MCCES to attend the 5974 NCO course to accomplish marked training events.  This will get the 5974 trained quickly and efficiently with great economy of force and effort.

4.11.2.3 <u>Stages</u>.  The following stages are included in the Mission Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 4.11.3 | COMPUTER AND NETWORK TRAINING (CANT) |
| 4.11.4 | MAINTENANCE MANAGEMENT (MMGT) |
| 4.11.5 | DEPLOYMENT  (DEPL) |
| 4.11.6 | SYSTEM ADMINISTRATION  (SYSAD) |

4.11.3  <u>COMPUTER AND NETWORK TRAINING(CANT)</u>

4.11.3.1  <u>Purpose</u>.  To provide core skills in computing and networking that will be used in the performance of assigned duties within the Marine Air Command and Control System (MACCS).

4.11.3.2  <u>General</u>

  <u>Prerequisite</u>. None

  <u>Admin Notes</u>. None

  <u>Crew Requirements</u>. None

CANT-3000  8  1095  B,R,M              L

  <u>Goal.</u>  Plan a Local Area Network

  <u>Requirement.</u>  Given an operational scenario using TE assets:

  1.  Identify information technology assets required
    a.  Number of Clients/Workstations at each geographic location
    b.  Number of Servers at each geographic location
    c.  Location of proxy server
  2.  Identify asset locations
  3.  Identify sub-netting
  4.  Verify routes
  5.  Record network configuration
  6.  Build detailed requirements to provide service provider
  7.  Plan quality of service in accordance with device priority
  8.  VLAN management

  <u>Performance Standard.</u>  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

  <u>Instructor.</u>  SI

  <u>Prerequisite.</u>  2040, 2042, 2043, 2044, 2045, 2046

  <u>Ordnance.</u>  None

  <u>Range.</u>  None

External Syllabus Support.  None

Reference.
1.  Site diagram
2.  MCWP 3-40.3
3.  Technical Manuals


CANT-3001       4.0       1095      B,R,M                                                        L


Goal.  Administer data system host security measures.

Requirement.  Given a configured network, demonstrate the following:

1.  Install current Anti-virus definitions and service packs.
2.  Configure firewalls.
3.  Troubleshoot system faults.
4.  Initiate corrective actions as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2040, 2042, 2043, 2044, 2045, 2046

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-3002       4.0       1095      B,R,M                                                        L


Goal.  Perform network management.

Requirement.  Given a LAN, references, and required equipment, perform the following:

1.  Monitor the LAN for connectivity.
2.  Assist with troubleshooting connectivity issues with external agencies.
3.  Log Files Check.
4.  Network Time Check.
5.  Trouble Shoot Network error(s).
6.  Explain the purpose of configuration management documentation.
7.  Explain different methods and rationales for network performance optimization.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite. 2040, 2042, 2043, 2044, 2045, 2046

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.


CANT-3003     4.0     1095     B,R,M                                                          L

Goal. Design network architecture.

Requirement. Given an operational scenario and required network information, draw a visual representation of the network consisting of the following:

1. Location of cells and users.
2. Internet Protocol (IP) addresses, subnet, and netmask.
3. Notation of domain.
4. Computer hostnames.
5. Placement of switches/routers.
6. Placement of Principle End Items (PEIs).
7. Security measures.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2040, 2042, 2043, 2044, 2045, 2046

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

4.11.4 Maintenance Management (MMGT)

4.11.4.2 Purpose. To provide the mission skills necessary to manage maintenance activities and administrative resonsibilities within the maintenance section.

4.11.4.3 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-3020    6.0    1095    B,R,M                                                    L

Goal. Ensure the corrective maintenance repair process is being conducted.

Requirement. Ensure the timely performance of all corrective maintenance actions per the references.
1. Verify the induction process:
   a. Confirm SL-3 accountability.
   b. Ensure visual inspection occurs.
   c. Verify record jacket.
   d. Verify proper organizational PM.
2. Ensure correctness of Service Request (SR) and NAVMC 1018.
3. Determine availability of resources.
4. Ensure proper troubleshooting of faulty item.
5. Ensure repair parts are ordered and correctness of SR.
6. Ensure faulty item is repaired to code A status.
7. Ensure safety measures are adhered to during repair process.
8. Conduct quality control procedures:
   a. Review quality control procedures.
   b. Verify quality control inspectors based on individual qualifications on equipment are assigned in writing.
9. Verification of MI and TI.
10. Verify proper closeout of SR.
11. Ensure equipment record jacket is updated.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2100, 2101, 2102, 2103, 2104, 2105, 2107, 2108

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. TM-4700-15/1H
3. MCO 4400.16
4. MCBUL 3000
5. Associated Equipment TM
6. UM 4000-125 GCSS-MC User's Manual
7. MCO 4400.150
8. MMSOP

MMGT-3021    16.0    1095    B,R,M                                                    L

Goal.  Inspect maintenance functional areas.

Requirement.  Given the applicable references and inspection checklists for three functional areas:

1.  State the purpose for inspecting functional areas.
2.  List the functional areas in your section.
3.  Schedule an inspection.
4.  Inform functional area managers of the inspection.
5.  Conduct an inspection.
6.  Document the result of the inspection.
7.  State to whom the inspection findings are submitted.
8.  Direct corrective actions.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  FSMAO Checklist
2.  CGI Checklist
3.  Unit SOP
4.  MMSOP
5.  MCO P4790.2
6.  UM 4000-125 GCSS-MC User's Manual


MMGT-3022     2.0      *        B                                                    L

Goal.  Validate SECREP assets in preparation for float re-computation conference.

Requirement.  Given a practical application scenario, applicable maintenance and supply history documents, review and provide recommendations for organizational Critical Low Density SECREP (CLD) assets and required on-hand quantities in preparation for float recomputation.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2102, 2105

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4790.2
2. MCO 4400.150
3. FEDLOG/WEBFLIS
4. UM 4000-125 GCSS-MC User's Manual
5. MMSOP

4.11.5 DEPLOYMENT (DEPL)

4.11.5.1 Purpose. To provide the mission skills required to deploy Marine Air Command and Control Systems (MACCS) equipment, to include planning, crew management, system configuration management, and employment procedures.

4.11.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

DEPL-3040        8.0        1095        B,R,M                                                                           L

Goal. Prepare system for embark.

Requirement. Given an Equipment Density List (EDL) that supports the mission, prepare system for embark/retrograde:

1. Conduct proper system power down/teardown.
2. Layout and conduct an SL-3 inventory of the equipment.
3. Conduct Limited Technical Inspections on listed equipment.
4. Pack and secure equipment.
5. Create a packing list.
6. Placard/label the shelters for embark.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2101, 2130

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3120.6 (Standard Embarkation Management System)
2. TM 12041A/15050A-OD/2 CAC2S System User Manual
3. Unit SOP

DEPL-3041        6.0        1095        B,R,M                                                                           L

Goal. Identify Operational Requirements.

Requirement. Given an OPORD and lessons learned, determine the operational requirement of the maintenance section to support the mission, to include:

1. Communication electronics equipment required.
   a. Radio requirements.
   b. Network requirements.
   c. TMDE
   d. Tools
2. Engineering equipment.
   a. Air conditioners.
   b. Heavy equipment.
   c. Generators.
3. Personnel required.
   a. Identify minimum number of mission skilled maintainers per crew required to support the mission.
   b. Identify minimum number of designated leaders required to support the mission.
   c. List the administrative requirements for crew.
      (1) Tactical license.
      (2) Security Clearances/Couriers
      (3) Personnel packing list requirements.
4. EKMS required.
5. Logistics support required.
6. Supply support required.
   a. Bill of Material (BOM) requirements.
   b. SECREP requirements.
7. Frequencies required.
   a. Draft a frequency request.
   b. Draft a satellite access request.
8. Develop an Equipment Density List (EDL) for PEIs.
9. Draw a site layout plan.
10. Draft a brief covering addressing the deployment and emplacement plan to support the mission.
11. Submit the site layout and brief the plan.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Planning MCWP 5-1
2. MOS Manual
3. Unit T/O and T/E
4. MCWP 3-40.3
5. Warning Order
6. Operational Order

7. T&R Manual

DEPL-3042     4.0     1095   B,R,M                                               L

Goal.  Develop disaster recovery plan.

Requirement.  With the aid of reference, perform the following:

1. Data backup/recovery plan
2. Power grid plan
3. Security plan
4. Accountability

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2000, 2002, 2022, 2143

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. User manuals
2. Commercial resources

DEPL-3043     6.0     1095   B,R,M                                               L

Goal.  Design a site layout.

Requirement.  Given a scenario, the references, a TO/E and mission statement, determine an appropriate site for system emplacement by designing a site layout by performing the following:

1. Conduct a site survey.
2. Determine a primary and secondary site location.
3. Analyze terrain to:
   a. Determine tactical orientation and equipment emplacement.
   b. Determine obstructions and hazards.
   c. Determine communications requirements and obstacles.
   d. Determine operational footprint.
   e. Determine power and fuel requirements.
   f. Determine the placement for vehicles.
   g. Determine the placement for antennas.
   h. Determine proper grounding system.
   i. Determine protection from the elements.
   j. Determine Terrain Masking.
4. Utilize planning tools (FalconView, AMP, SPEED, etc.) to determine terrain masking and line of sight connectivity.
5. Design a site layout.
   a. Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Fuels (HERF)

regulations.
    b. Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Ordnance (HERO) regulations.
    c. Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Personnel (HERP) regulations.
    d. Ensure emitters are emplaced to support working area.
    e. Ensure all equipment is clearly depicted.
6. Submit the site layout to the instructor for validation.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Technical Manuals
2. Operational Order
3. CMR
4. MCWP 3-25.4
5. MCWP 5-1

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DEPL-3044    8.0    1095    B,R,M                                              L

Goal. Develop a Communications Plan for a MACCS agency.

Requirement. Given the references and an operational scenario, develop a communications plan.
1. Develop a Single Channel Radio (SCR)Diagram for a MACCS agency's doctrinal nets
2. Develop a SCR guard chart for the communications plan.
3. Develop a chat guard chart for a MACCS agency's typical chat rooms.
4. Develop a data link architecture diagram depicting an agency's participation.
5. Develop a digital backbone diagram depicting the connection to services.
6. Develop restoration priorities.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2139

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. MCWP 3-25 Series
2. MCWP 3-40.3

DEPL-3045     4.0     1095     B,R,M                                                    L

Goal.  Plan for deployment of Tactical Data Systems.

Requirement.  Complete the following events:

1. Establish an accurate equipment density list.
2. Establish an accurate packing list.
3. Establish an accurate T/O list.
4. Identify heavy equipment requirements
5. Establish an accurate bill of materials list.
6. Coordinate COMSEC support.
7. Identify communication requirement.
8. Establish an accurate SECREP list required for deployment.
9. Build a contacts list for key planning personnel.
10. Identify and request fuel requirements.
11. Identify and request power requirements.
12. Coordinate with MMO for proper procurement procedures during deployment.
13. Identify and request environmental condition unit requirements.
14. Identify and request appropriate transportation requirements.
15. Identify facility requirements.
16. Obtain letter of instruction for deployment.
17. Inspect gear required on the gear list for individual Marines  for deployment.
18. Familiarize the Marines with emergency action plan for deployment.
19.  Plan for the safeguarding and transportation of CCI/Classified material.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Unit SOP
2. Technical Manuals
3. Operational Order
4. CMR

DEPL-3046     8.0     1095     B,R,M                                                    L

Goal.  Develop a Communications Plan for the MACCS

Requirement.  As a part of a planning team, given the references and an operational scenario, develop a communications plan.

1. Develop a Single Channel Radio (SCR)Diagram for MACCS doctrinal nets
2. Develop a SCR guard chart for the communications plan.
3. Develop a chat guard chart for typical MACCS chat rooms.
4. Develop a data link architecture diagram depicting the MACCS datalinks
5. Develop a digital backbone diagram depicting the connection to services.
6. Develop restoration priorities.

Performance Standard.  As a part of a planning team that consists of a representative from each MACCS agency and a MWCS representative, develop a communications plan.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
MCWP 3-40.3


DEPL-3047        8.0        1095        B,R,M                                                                              L

Goal.  Conduct post deployment analysis

Requirement.  Given a plan operational requirements, conduct a debrief with crew chiefs, maintenance chiefs, and maintenance officers to develop lessons learned upon completion of a deployment that includes the following:

1. Personnel
    a. T&R
    b. Quantity
    c. Packing List
    d. Medical/Dental
    e. Administrative/legal readiness
2. Equipment
    a. Excesses and shortages
    b. Float Block/Class IX shortages
    c. Site Survey/Layout
    d. Terrain Masking
    e. Supported operational requirements
3. Planning Process
    a. Environmental
    b. Spectrum/SAA
    c. Communications requirements
       (1) Voice
       (2) Data
       (3) Phones
       (4) Keying Material
    d. Logistical Support
       (1) Heavy Equipment
       (2) Supply
       (3) BOM

    (4) Fuel
    (5) Water
    (6) Utilities
    (7) Chow
    (8) Billeting
  e. Emergency Action Plan
  f. Disaster Recovery Plan
4. Security
  a. Personnel
  b. Material
  c. Couriers/Transportation
  d. Storage
5. Document lessons learned

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2143, 3042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3120.6
2. Technical Manuals
3. Operational Order
4. CMR
5. Unit SOP

4.11.6 SYSTEM ADMINISTRATION(SYSAD)

4.11.6.1 Purpose. To provide the mission skills necessary to safely embark, setup, operate, maintain, administor, and integrate tactical data systems within the Marine Air Command and Control System (MACCS) and external agencies.

4.11.6.2 General

    Prerequisite. None

    Admin Notes. None

    Crew Requirements. None

SYSAD-3144    2.0    1095    B,R,M                         AN/GYK-60     L

    Goal. Employ AFATDS

    Requirement. Given an AFATDS, applicable references, materials, and required equipment:

    1. Add users as appropriate

2. Ensure logistical support is confirmed
a. Generator support
b. ECU support
c. Supply support
3. Develop AFATDS network topology

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2256, 2257, 2258, 2259

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 7025-OR/ Series
2. MarineNet AFATDS course AFATAA0000
3. Site diagram

SYSAD-3145     6        1095     B,R,M                                          AN/TSQ-273     L

Goal. Employ the PDS

Requirement. Given a PDS, applicable references, materials, and required equipment:

1. Verify system users
2. Ensure logistical support is confirmed
a. Generator support
b. ECU support
c. Supply support
3. Verify PDS network connection to the WAN
4. Plan share file structure.
5. Set permissions for shared files.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2276, 2277, 2278, 2279

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 12041A/12050-OD/1 System Administrator Maintenance Manual (SAMM)
2. TM 12041A/12050-OD/1 System Users Manual (SUM)

SYSAD-3146     3       1095     B,R,M                                              TCW     L

Goal.  Employ the TCW

Requirement.  Given a TCW, applicable references, materials, and required equipment:

1.  Add users as appropriate
2.  Ensure logistical support is confirmed
a.  Generator support
b.  ECU support
c.  Supply support
3.  Develop TCW network topology

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2280, 2281, 2282, 2283

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  JTCW Documentation and Install Guide.


SYSAD-3147     2       1095     B,R,M                                              AN/GYK-62     L

Goal.  Employ the BFT TOC Kit

Requirement.  Given a BFT TOC Kit, applicable references, materials, and required equipment:

1.  Ensure logistical support is confirmed
a.  Generator support
b.  Supply support
2.  Verify BFT TOC Kit network connection to the WAN

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2284, 2285, 2286, 2287

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM-11180B-OR/1 Operator/Crew Manual with components and repair list
2. TM-11180A-IN/1 Field Maintenance Manual including Repair Parts and Special Tool List

SYSAD-3148    4.0    1095    B,R,M _____ L

Goal. Manage agency system administration requirements

Requirement. Given a scenario, ensure the following:

1. Manage disaster recovery plan.
2. Manage logfiles.
3. Manage user accounts.
4. Verify software/firmware are up to date
5. Manage system passwords.
6. Explain the fundamentals of dealing with prohibited content/activity.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2041, 2044, 2143, 2250, 2251, 2252, 2253, 2254, 2255, 3042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. User's Manuals
2. Commercial resources

4.12  CORE PLUS TRAINING  (4000)

4.12.1 Purpose. This phase includes core skill plus training for 5974s. All core skill plus qualified Marines must be maintained to accomplish special missions or tasks, to include supervision and training of a core competent crew. The trainee is exposed to advanced MACCS integration and employment of the DASC within a joint environment.

4.12.2 General

4.12.2.1 Prerequisite. Core Skill Basic and Mission Skill phases must be completed prior to beginning training in this phase.

4.12.2.2 Admin Notes

   (1) Training in this phase does not preclude simultaneous training in the Mission Skill phases.

   (2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

   (3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable. Training will be executed as individual training with appropriate assistance at the

crew level as needed and as dictated by the conditions listed for each event.  Crewmember assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual properly demonstrating the event performance standard.

4.12.2.3  <u>Stage</u>.  The following stages are included in the Core Plus Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 4.12.3 | SYSTEM ADMINISTRATION (SYSAD) |
| 4.12.4 | TACTICAL DATA LINK (TDL) |
| 4.12.5 | MAINTENANCE MANAGEMNT  (MMGT) |
| 4.12.6 | INSTRUCTOR TRAINING (IUT) |

4.12.3  <u>SYSTEM ADMINISTRATION (SYSAD)</u>

4.12.3.1  <u>Purpose</u>. To provide the core plus and mission plus skills necessary to safely embark, setup, operate, maintain, administor, and integrate mission specific or non-ogranic tactical data systems within the Marine Air Command and Control System (MACCS) and external agencies.

4.12.3.2  <u>General</u>.

  <u>Prerequisite</u>.  None

  <u>Admin Notes</u>. None

  <u>Crew Requirements</u>. None

SYSAD-4260  4   *   B                 AN/TYQ-101  L

  <u>Goal</u>.  Setup CDLS Equipment.

  <u>Requirement</u>.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

  1.  Emplace components.
  2.  Cable components.
  3.  Erect HF antenna
  4.  Erect UHF antennas
  5.  Energize components.

  <u>Performance Standard</u>.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

  <u>Instructor</u>.  BI

  <u>Prerequisite</u>.  None

  <u>Ordnance</u>.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 10987A-OI (CDLS manual)
2.  TM 10389A-30&P/2
3.  TM 10389A-12&P/1
4.  Site diagram

SYSAD-4261     2.0      *      B                                         AN/TYQ-101     L

Goal.  Install Software in CDLS

Requirement.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Install Software
2.  Verify installation

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 10987A-OI (CDLS manual)
2.  TM 10389A-30&P/2
3.  TM 10389A-12&P/1

SYSAD-4262     4       *      B                                         AN/TYQ-101     L

Goal.  Configure the CDLS.

Requirement.  Given an CDLS, required references and  materials, and equipment, perform the following:

1. Configure network settings
2.  Configure system time
3.  Load Network Data Load

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 10987A-OI (CDLS manual)
2. TM 10389A-30&P/2
3. TM 10389A-12&P/1
4. Site diagram


SYSAD-4263     4          *          B                                                                    AN/TYQ-101      L

Goal.  Maintain the CDLS.

Requirement.  Given a CDLS and DST, applicable references, materials and equipment:

1. Check Log Files
2. Network Time Check
3. Trouble Shoot error(s)
4. Initiate corrective maintenance actions as required.
5. Conduct an operational status check.
6. Perform PMCS
7. Document as required

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. TM 10987A-OI (CDLS manual)
2. TM 10389A-30&P/2
3. TM 10389A-12&P/1


SYSAD-4264     4          *          B                                                                    TBMCS L

Goal.  Setup TBMCS Equipment

Requirement.  Given a locally developed site diagram, applicable references, materials, and required equipment:

1. Emplace components.
2. Cable components

3. Energize components.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Site diagram
2. TBMCS MR2V SUMs
3. TBMCS MR2V SAMs
4. TBMCS MR2V Load Guides
5. Network Diagram


SYSAD-4265     40     *     B                                                    TBMCS L

Goal.  Install TBMCS Software

Requirement.  Perform the following:

1. Configure ESXi boards
2. Configure network devices
3. Install Software
4. Build clients
a. Virtual machine client
b. Personal Computer client
4. Configure virtual machines
5. Configure DNS

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Site diagram
2. TBMCS MR2V SUMs
3. TBMCS MR2V SAMs
4. TBMCS MR2V Load Guides

5. Network Diagram


SYSAD-4266     4.0      *       B                                                      TBMCS L

Goal.  Configure TBMCS

Requirement.  Perform the following:

1. Perform Post-configuration
2. Configure external system interfaces as applicable
3. Perform system validation/verification

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Site diagram
2. TBMCS MR2V SUMs
3. TBMCS MR2V SAMs
4. TBMCS MR2V Load Guides
5. Network Diagram


SYSAD-4267     12      *       B                                                      TBMCS L

Goal.  Maintain TBMCS.

Requirement.  Given TBMCS, applicable references, materials, and equipment complete the following:

1. Update DNS
2. Update Active Directory
3. Update Microsoft exchange services
4. Update Licensing
5. Verify IRIS Services are running
6. Verify Windows Services are running
7. Verify DMD services are running
8. Verify Global Share availability
9. Verify Web-Logic Servers are running
10. Update Webpage Status
11. Update system passwords
12. Terminate stale connections
13. Perform offline database backup
14. Perform database cleanup
15. Perform system backups
16. Log Files Check

17. Network Time Check
18. Trouble Shoot error(s)
19. Initiate corrective maintenance action if required.
20. Conduct an operational status check.
21. Verifty UNIX services are running
22. Maintain virtual environment
23. Conduct PMCS

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Site diagram
2. TBMCS MR2V SUMs
3. TBMCS MR2V SAMs
4. TBMCS MR2V Load Guides
5. Network Diagram

SYSAD-4268     1.0     *     B                                          TCS     L

Goal. Setup the Tactical COP Server (TCS)

Requirement. Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Emplace components.
2. Cable components.
3. Energize components.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable Manuals

SYSAD-4269    2.0    *    B                                      TCS     L

Goal. Install TCS Software

Requirement. Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1. Install Software
2. Verify installation

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable Manuals


SYSAD-4270    3.0    *    B                                      TCS     L

Goal. Configure the TCS.

Requirement. Given a locally developed site diagram, references, materials, and required equipment:

1. Configure network settings.
a. Configure UNIX zone parameters
b. Configure security levels
2. Configure time settings.
3. Configure frame-work settings.
4. Configure COP Synchronization Tool (CST) links.
5. Configure Joint Range Extension Application Protocol (JREAP) links.
6. Configure for external interface.
a. ADSI
b. JTCW
c. Other TCSs
d. Other external interfaces as may be dictated by local requirements

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Site Diagram


SYSAD-4271    2        *        B                                                TCS     L

Goal.  Maintain the TCS

Requirement.  Given an TCS, applicable references, materials, and required equipment:

1.  Verify CST status.
2.  Verify JREAP status.
3.  Purge Database.
4.  Check log files.
5.  Check network time.
6.  Troubleshoot error(s).
7.  Initiate corrective maintenance action if required.
8.  Conduct an operational status check.
9. Conduct PMCS
10.  Create a snapshot
11.  Revert to a snapshot
12.  Revert from a mirror if the primary disk fails

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Site Diagram


SYSAD-4272    40.0      *        B                                     AN/TSQ-239     L

Goal.  Setup COC Equipment.

Requirement.  As a member of a crew, given a locally developed site diagram, references, materials, and required equipment, perform the following:

1.  Emplace system.
2.  Cable system.
3.  Emplace Environmental safety equipment.

4.  Energize components.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  COC IETM
2.  Site diagram


SYSAD-4273     4.0      *       B                                        AN/TSQ-239      L

Goal.  Install COC Software

Requirement.  Given a locally developed site diagram, references, materials, and required equipment, perform the following:

1.  Install Software
2.  Verify installation

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  COC IETM
2.  Site diagram


SYSAD-4274     4.0      *       B                                        AN/TSQ-239      L

Goal.  Configure the COC

Requirement.  Given a locally developed site diagram, references, materials, and required software:

1.  Configure network settings.
2.  Configure time settings.

3.  Configure system specific software

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  COC IETM
2.  Site diagram


SYSAD-4275    4.0    *    B                                              AN/TSQ-239    L

Goal.  Maintain the COC

Requirement.  Given a COC, applicable references, materials, and equipment:

1.  Update DNS.
2.  Update Active Directory.
3.  Update Microsoft exchange services.
4.  Update Licensing.
5.  Verify Windows Services are running.
6.  Verify Global Share availability.
7.  Update SharePoint.
8.  Update system passwords.
9.  Terminate stale connections.
10. Make changes to display system.
11. Perform system backups.
12. Log Files Check.
13. Network Time Check.
14. Trouble Shoot error(s).
17. Conduct an operational status check.
16.  Perform PMCS
15.  Initiate corrective maintenance action if required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  COC IETM
2.  Site diagram

SYSAD-4288      2          365       B,R,M                                                    SIPR Computer   L

Goal.  Configure an Integrated Broadcast Service – Network Services account.

Requirement.  Given access to the SIPRNET, complete the following:

1.  Download Tactical Data Processor (TDP) software from the Integrated Broadcast Service Support Office (IBSSO).
2.  Coordinate with the IBSSO for the reception of IBS information.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  IBSSO SIPR Website

SYSAD-4910      12         1095      B,R,M                                                    AN/TYQ-101     L

Goal.  Employ the CDLS

Requirement.  Given operational input, perform the following:

1.  Conduct detailed planning of the Area of Operations (AO)
2.  Establish primary, secondary, and tertiary data links IAW OPTASKLINK
3.  Emplace antennas in accordance with mission requirements
4.  Turn data link management functions over to ICO or designated individual
5.  Ensure logisitical support is confirmed
a.  Generator support
b.  ECU support
c.  Supply support
6.  Develop CDLS network topology

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range. None

External Syllabus Support. None

Reference.
1. TM 10987A-OI (CDLS manual)
2. TM 10389A-30&P/2
3. TM 10389A-12&P/1

SYSAD-4911     12      1095     B,R,M                                      AN/TYY-2     L

Goal. Employ TBMCS

Requirement. Given the references, tools, TMDE, and TBMCS with a fault (live preferred) or a simulated scenario describing a fault in this subsystem and evaluator feedback, complete the following:

1. Conduct detailed planning of the Area of Operations (AO)
2. Ensure logisitical support is confirmed
a. Generator support
b. ECU support
c. Supply support
3. Develop TBMCS network topology
4. Manage user accounts

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Site diagram
2. TBMCS MR2V SUMs
3. TBMCS MR2V SAMs
4. TBMCS MR2V Load Guides
5. Network Diagram

SYSAD-4912     4.0     1095     B,R,M                                      AN/UYQ-91A   L

Goal. Employ the TCS

Requirement. Given an TCS, applicable references, materials, and required equipment:

1. Add users to the COP zone
2. Ensure logisitical support is confirmed
a. Generator support

b. ECU support
c. Supply support
3. Develop TCS network topology

<u>Performance Standard.</u> With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

<u>Instructor.</u> SI

<u>Prerequisite.</u> None

<u>Ordnance.</u> None

<u>Range.</u> None

<u>External Syllabus Support.</u> None

<u>Reference.</u>
1. Applicable Manuals
2. Site Diagram

SYSAD-4913     12        1095      B,R,M                                        AN/TSQ-239      L

<u>Goal.</u> Employ the COC

<u>Requirement.</u> Given a COC, applicable references, materials, and required equipment:

1. Verify system users
2. Ensure logisitical support is confirmed
a. Generator support
b. ECU support
c. Supply support
3. Develop COC network topology
4. Plan share file structure.
5. Set permissions for shared files.

<u>Performance Standard.</u> With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

<u>Instructor.</u> SI

<u>Prerequisite.</u> None

<u>Ordnance.</u> None

<u>Range.</u> None

<u>External Syllabus Support.</u> None

<u>Reference.</u>
1. COC IETM
2. Site diagram

4.12.4  <u>TACTICAL DATA LINK (TDL)</u>

4.12.4.1  <u>Purpose</u>. The purpose of this stage is to teach the Marine how to design network architectures.

4.12.4.2  <u>General</u>.

      <u>Prerequisite</u>.  None

      <u>Admin Notes</u>. None

      <u>Crew Requirements</u>. None


TDL-4820     20     0     B                                        G

      <u>Goal.</u>  Identify mission essential segments, sets, and fields within the OPTASK LINK message.

      <u>Requirement.</u>  With the aid of reference, perform the following:

1.  Identify the purpose of the OPTASK LINK.
2.  Identify who is responsible for creating and disseminating the OPTASK LINK.
3.  State the purpose of the Common Message Processor (CMP) and discuss its relationship to the OPTASK LINK.
4.  Define Segment.
5.  Define Set.
6.  Define Field.
7.  Identify the information contained in the Header of the OPTASK LINK to include the following sets:
a.  GENTEXT/CONDUCT OF TDL OPERATIONS.
b.  POCLINK.
c.  DLRPGRID.
8.  Identify the information contained in the IVCCN Segment.
9.  Identify the information contained in the CORRDEC set.
10. Identify the information contained in THE HEADING/MULTILINK INTERFACE COORDINATION REQUIREMENTS set to include the following GENTEXT sets:
a.  FORCE INTERFACE INFORMATION.
b.  REGIONAL INTERFACE INFORMATION.
c.  SECTOR INTERFACE INFORMATION.
d.  CHANGE DATA ORDER AUTHORITIES.
e.  CONTINGENCY PROCEDURES.
f.  TRACK PRODUCTION AREA GUIDANCE.
11. Identify the information contained in the MULCDUTY set.
12. Identify the information contained in the Link 11 Segment to include the following sets:
a.  POLLSEQ.
b.  LSYSDATA.
c.  CRYPTDAT.
d.  DALKFREQ.
e.  FORCFLTER.
f.  LPUDATA.
g.  UNITFLTR.
13. Identify the information contained in the Link 16 Segment to include the following sets:
a.  JNETWORK.
b.  CPD.
c.  JCRYPDAT.
d.  JTRNMODE.
e.  JSTNETS
f.  JUDATA.

g. SQDDATA.

14. Identify the information contained in the Joint Range Extension (JRE) Data Segment to include the following sets:

a. UNITINFO.

b. LNKPROT.

c. SECTEL.

d. SECINTER.

e. SATCONN.

f. CONMATRX.

15. Identify the information contained in the 1MANCODE set.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures
2. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

TDL-4821          10      0       B                                                        G

Goal.  State the purpose of Interface Coordination procedures.

Requirement.  Perform the following:

1.  Identify the purpose of data link entry/exit procedures.
2.  Define data registration.
3.  State the purpose of the following data registrations:
a.  Geodetic registration
b.  Sensor registration
c.  Remote Interface Unit (IU) registration
4.  List the steps of the data registration test.
5.  State which unit will normally be assigned as the data registration reference unit in a Multi-TDL environment.
6.  List the five correlation restrictions for reported tracks.
7.  List the eight operational contingency constraints (OCCs) for a track.
8.  List the six steps for voice resolution of a dual designation.
9.  IAW the JMTOP, what is the single most important element of information of the TDL interface.
10. Define an Identification (ID) conflict.
11. Define an environment conflict.
12. Outline the ID difference resolution procedures.
13. Define a Change Data Order (CDO).
14. State who on the interface may originate a CDO.
15. Identify the three detection and tracking reporting techniques.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MCRP 3-25E, MTTP for an Integrated Air Defense System


TDL-4824         10        0        B                                                                   G


Goal.  Identify elements of Combat Net Radios (CNR) Networks.

Requirement.  Given the reference:

1. Define Combat Net Radios (CNR).
2. Identify CNR capable data systems in the Marine Corps.
3. Identify CNR capable aircraft in the Marine Corps.
4. Identify CNR capable aircraft in the Joint Force.
5. Identify the purpose of the MIL-STD-2045-47001 Header.
6. Identify CNR Address requirements.
7. Explain how a CNR Data Link addresses can be determined based on aircrafts ATO call sign side number.
8. Identify the purpose of an IP address in CNR.
9. Identify the method to calculate the IP address of an aircraft based on squadron number and ATO call sign side number.
10. Identify the generic subnet mask used to ensure CNR interoperability.
11. Identify the concept of Network Layer Pass-through.
12. Explain the interoperability issues that exist with CNR.
13. Identify the techniques used to provide network access with CNR.
14. Identify the characteristics of Random-Network Access Delay (R-NAD).
15. Identify the characteristics of Deterministic Adaptable Priority-Network Access Delay (DAP-NAD).
16. Define the term radio mix.
17. Explain the importance of timing parameters used with asynchronous CNR networks.
18. Explain the importance of Operational Parameter Settings (OPS) in asynchronous CNR networks.
19. Identify the organization responsible for disseminating OPS.
20. Explain the importance of Extended OPS settings.
21. Explain the process of joining a CNR network with established network parameters.
22. Explain the method to join a CNR network with adaptive network parameters.
23. Describe a Digitally Aided Close Air Support thread.
24. Describe a Digitally Aided Fire Support thread.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 3115.01, Joint Data Network Operations
2.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
3.  MIL-STD-188-220, Digital Message Transfer Device Subsystems
4.  MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5.  MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
6.  MIL-STD-6017, VMF Interface Standard
7.  MAWTS-1 TACP TACSOP
8.  JF J-6 DaCAS White Paper
9.  System of Systems Engineering Change Proposal 1, Base Line DaCAS Messaging and RF Network
10. System of Systems Engineering Change Proposal 4, exchange of Network Parameters
11. Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
12. MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values


TDL-4825          10        0        B                                                              G


Goal.  Identify elements of the OPTASK LINK Combat Net Radios (CNR)Segment/Supplement.

Requirement.  Given the reference:

1.  Identify the purpose of the OPTASK LINK Combat Net Radios (CNR) Segment/Supplement.
2.  Identify the Variable Message Format (VMF) Functional Areas supported by the OPTASK LINK CNR.
3.  Identify the two radio network architectures supported by the OPTASK LINK CNR.
4.  Identify the information contained in the CNRSEG set.
5.  Identify the information contained in the CNRAREA set.
6.  Identify the relationship between a CNRSEG and an area of operation.
7.  Identify the information contained in the POCLINK set.
8.  Identify the information contained in the CNRSET set.
9.  Identify the information contained in the SNS set.
10. Explain where to find the OPS table referenced in the SNS set.
11. Identify the information contained in the CNETWORK set.
12. Identify the information contained in the CRYPTDAT set.
13. Identify the information contained in the CWEPCRYP set.
14. Identify the information contained in the UHFLOS set.
15. Identify the information contained in the UHFSAT set.
16. Identify the purpose of the Air Support Segment.
17. Identify the information contained in the ASCCID set.
18. Identify the information contained in the ASCCOMM set.
19. Identify the information contained in the Air Support Information GENTEXT.
20. Identify the purpose of the Tactical Control Team Segment.
21. Identify the information contained in the TCTID set.
22. Identify the information contained in the TCTCCOMM set.
23. Identify the information contained in the Tactical Control Team 24. Information GENTEXT.
24. Identify the purpose of the Aircraft CNR Segment.
25. Identify the information contained in the SQDCNRDT set.
26. Identify the information contained in the CNR Coordination Instructions  GENTEXT.

Performance Standard.  With the aid of the Guide to the USMTF User Formats and given a CNR Network,

OPTASK LINK CNR, a CNR Architecture Diagram template, a Quick Reference Guide template, and MIL-STD-188-220 Standard Configuration Tables; perform CNR network planning IAW unit SOP. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DISA USMTF Baseline
2.  Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
3.  CJCSM 3115.01, Joint Data Network Operations
4.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP_
5.  MIL-STD-188-220, Digital Message Transfer Device Subsystems
6.  MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
7.  MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
8.  MIL-STD-6017, VMF Interface Standard
9.  MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values

TDL-4833          2          0          B                                                                    L

Goal.  Setup  Link 11B Equipment.

Requirement.  Given the references, operational documents, and a C2 system with a MIL-STD-6011 compliant data link management software suite:

1.  From operational documents determine mode of operations and signal path for Link 11B operations.
2.  Run appropriate signal cable from C2 system to intermediate agency that will deliver the serial transmission to the other link participant.
3.  Connect signal cable to C2 System signal entry patch panel or MODEM as appropriate.
4.  Verify that the line encryption device, modem, host system and/or data link manager are properly cabled together.
5.  Energize the line encryption device(s).
6.  Configure the line encryption device(s) for operation.
7.  Load appropriate keying material into line encryption device(s) as determined from operational documents
8.  Energize the modem(s).
9. Configure modem(s) for planned operations.
10. Energize or start the data link manager.
11. Log into the data link manager.
12. Configure data link manager for link 11B operations per operational documents.
13. After confirming with ICO/DLC, initialize link.
14. Verify link is operating properly.

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual


TDL-4834        4        0        B                                                                    L

Goal.  Operate Link 11B.

Requirement.  Given the references, operational documents, and a C2 system:

1.  Extract required information from the OPTASK LINK.
2.  Input database entries per the OPTASK LINK.
3.  Enter and activate data filters per the OPTASK LINK.
4.  Verify equipment is correctly configured.
5.  Verify cryptographic equipment is keyed.
6.  Perform proper net entry procedures.
7.  Enter / exit link IAW published procedures.
8.  Operate in the following modes:
a.  Limited Transmission of Data (LTD).
b.  Full Transmission of Data (FTD).

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Link 11B capable platform.

Reference.
1.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual


TDL-4849        8        0        B                                                                    L

Goal.  Conduct tactical data link planning for an agency.

Requirement.  Given an exercise or operational scenario:

1. Obtain the communications and data link source documentation for the specified exercise or operation.
2. Identify required crypto short titles in the COMSEC callout.
3. Identify communication nets required for TDL coordination.
4. Identify duties assigned to the unit in the OPTASK LINK.
5. Identify primary, secondary, and tertiary tactical data links.
6. Identify required TDL equipment and configuration to crew leadership.
7. Construct the data link portion of the crew brief IAW the unit's Pocket Checklist.
8. Provide planning inputs to the Interface Control Officer as required.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist

TDL-4850        8        0        B                                                                L

Goal.  Conduct tactical data link coordination for an agency.

Requirement.  Given an exercise or operational scenario:

1. Brief the tactical data link (TDL) portion of the agency's crew brief.
2. Execute the agency's duties identified in the OPTASK LINK
3. Respond to instructions given by the Interface Control Officer (ICO).
4. Provide recommendations to the ICO during execution.
5. Configure primary, secondary, and tertiary tactical data links.
6. Monitor the status and health of operational TDLs.
7. Coordinate data forwarding and link connections for the agency.
8. Coordinate data filters for the agency.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist

TDL-4851          8          0          B                                                    L

Goal.  Perform track data coordination for a track producing agency

Requirement.  Given the references and an operational C2 system:

1. Coordinate the changes in the agency's track production responsibilities as the tactical situation changes
2. Coordinate the agency's usage of data filters
3. Coordinate the agency's usage of special points, lines, and areas on the Multi-Link Interface
4. Perform the resolution of the following interface anomalies affecting the local agency:
a. Dual designations
b. Duplicate tracks
c. Identification conflicts
d. Category and environment conflicts

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist

TDL-4852          8          0          B                                                    L

Goal.  Perform Link 16 Management Functions

Requirement.  Given the references and participation as the Link 16 Manager in a MAGTF or Joint exercise:

1. Schedule usage of Link 16 with the Deconfliction Server for all agencies.
2. Provide input to the Link 16 portion of the OPTASK LINK message.
3. Based upon the Commander's Information Exchange Requirements, coordinate with the ICO the selection of a network which will meet these IERs.
4. Ensure that each Link 16 participant has the correct IDL.
5. Direct the proper initialization of the Link 16 network.
6. Monitor network performance and recommend modification/changes to the ICO.
7. Maintain an accurate status of the network and its participants.
8. When required, coordinate changes to the network.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Link 16 capable units participating in a MAGTF or Joint exercise.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. LMS-MT System Users Guide
3. CJCSI 6232.01, Link 16 Spectrum Deconfliction

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TDL-4853  8  0  B                     L

Goal.  Perform as the Track Data Coordinator

Requirement.  Given the references and an operational MACCS:

1. Perform as the Net Control Station for the Track Supervision Net (TSN).
2. Direct a data registration test between two track producing units.
3. Resolve the following interface anomalies:
a. Dual designations
b. Duplicate tracks
c. Identification conflicts
d. Category and environment conflicts
4. Transmit Change Data Orders (CDOs) when required.
5. Monitor the use and transmission of special points, lines, and areas.
6. Enforce the track production plan.
7. Recommend changes to surveillance areas to the Interface Control Officer (ICO).
8. Recommend changes in data filter usage to the ICO.
9. Conduct Fidelity Drills as directed by the ICO

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Two track producing agencies.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-4854       8       0       B                                        L

Goal. Perform Interface Control Officer planning functions.

Requirement. Given a scenario and the references:

1. Gather details pertaining to the operational environment to include:
a. Operational Scenario.
b. Identification and prioritization of information exchange requirements.
c. Communications equipment characteristics and frequencies.
d. EW Considerations.
e. Cryptographic requirements.
2. Gather details on each TDL Interface Participant to include:
a. Geographic location.
b. Information exchange requirements.
c. Expected track loading.
d. Capabilities and limitations.
e. Current issues or degradations that would affect an Interface Unit's ability to operate its assigned data links.
3. Identify capabilities and limitations of each Tactical Data Link (TDL) to support information exchange requirements.
4. Develop the Multi-TDL Architecture.
5. Coordinate with the USMC Network Design Facility for an appropriate Link 16 Network
6. Validate that the Multi-TDL Architecture supports information exchange requirements.
7. Develop the OPTASK LINK.

Performance Standard. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard
5. https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
6. CJCSI 6232.01, Link 16 Spectrum Deconfliction
7. MCRP 3-25E, MTTP for an Integrated Air Defense System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

TDL-4855       8       0       B                                        L

Goal. Perform Interface Control Officer Execution Functions.

Requirement. Given the references and an operational MACCS:

1. Perform as the Net Control Station (NCS) for the Data Link Coordination Net (DCN).
2. Coordinate the NCS for Link 11.
3. Coordinate the Network Time Reference (NTR) for Link 16.
4. Enforce published net entry and exit procedures.
5. Direct data link fidelity drills.
6. Direct the activation of data filters as required.
7. Monitor and maintain Interface Unit (IU) TDL status.
8. Determine and resolve Multi-TDL connectivity problems.
9. Direct and assist the Track Data Coordinator in resolving issues.
10. Coordinate the activation of secondary and tertiary data links.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard
5. https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
6. CJCSI 6232.01, Link 16 Spectrum Deconfliction
7. MCRP 3-25E, MTTP for an Integrated Air Defense System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

4.12.5  MAINTENANCE MANAGEMENT (MMGT)

4.12.5.1  Purpose. To provide the core plus and mission plus skills  to embark, setup, operate, maintain, and integrate mission specific or non-ogranic communication systems and other communication assets within the Marine Air Command and Control System (MACCS).

4.12.5.2  General.

Prerequisite.  None

Admin Notes. None

Crew Requirements.  None

MMGT-4900      4.0      1095      B,R,M                                                              L

Goal.  Assess maintenance shop performance.

Requirement.  Given the references, perform the following:

1. Determine key performance indicators.

2.  Determine functional areas to be inspected.
3.  Develop an inspection plan.
4.  Assign personnel to conduct inspections.
5.  Review results.
6.  Assess strengths and weaknesses.
7.  Develop/implement a corrective plan.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  FSMAO Checklist
2.  CGI Checklist
3.  Unit SOP
4.  MMSOP
5.  MCO P4790.2
6.  UM 4000-125 GCSS-MC User's Manual


MMGT-4901     2.0      1095     BI, R, M                              L

Goal.  Assess maintenance section funding requirements.

Requirement.  With the aid of references and given equipment maintenance history, projected TEEP, and anticipated maintenance shortfalls, propose funding allocations for maintenance activities.
1.  Identify and prioritize funding requirements.
2.  Provide a maintenance funding request based on requirements and prior year utilization.
3.  Provide an anticipated maintenance funding request based on the unit's TEEP.
4.  Identify personnel travel requirements.
5.  Identify unit-funded training requirements.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150

2.  MCO 7300.21A

4.13  INSTRUCTOR UNDER TRAINING (IUT) (5000)

4.13.1  Purpose.  To provide technicians the additional skills necessary to instruct, evaluate and approve event completions.  Upon completion of the required training, an individual may be approved for instructor designation by the commanding officer.

4.13.2  General.

4.13.2.1  Prerequisiste. NONE.

4.13.2.2  Admin Notes.

a.  The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to the concepts of managing a WTTP, properly conducting training, performing evaluations, and recommending training plans.

b.  There are different instructor designations (listed below).  The intent is to train individuals with different levels and areas of experience to instruct personnel.  Instructor experience is also gained while progressing through the different instructor designations.

(1) Basic Instructor (BI)

(2) Senior Instructor (SI)

(3) The MAWTS-1 C3 Course catalog contains the training requirements for the above listed instructors.  The catalog is located at the MAWTS-1 website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/default.aspx

(4) The table below outlines the events that each instructor can train, evaluate, and approve or recommend for approval.

| INSTRUCTOR | Event Training, Evaluation and Approval |
|---|---|
| BI | Core Skill events in which current and proficient. |
| SI | Core Skill, Mission Skill, and Core Plus events in which current and proficient. |

4.13.2.3  Stages.  The following stages are included in the Instructor Under Training Skill Phase of training.

| PAR NO. | STAGE NAME |
|---|---|
| 4.13.3 | INSTRUCTOR UNDER TRAINING (IUT) |

4.13.3  INSTRUCTOR UNDER TRAINING (IUT) STAGE

4.13.3.1  Purpose.  To train Aviation Communication System Technicians in the fundamentals of instructing and training processes.

4.13.3.2  General

Prerequisite.  None

Admin Notes.  None

Crew Requirements.  None

| T&R CODE | EVENT DESCRIPTION | INSTRUCTOR |
|:---:|:---|:---:|
| 5000 | Introduce principles of instruction | BI |
| 5010 | Understand the structure of an event | BI |
| 5020 | Conduct a period of instruction on a core skill event | BI |
| 5100 | Understand the Aviation Training and Readiness (T&R) Program | SI |
| 5110 | Understand the applicable community T&R program | SI |
| 5120 | Understand T&R administration | SI |
| 5130 | Develop a training plan | SI |
|  |  |  |

IUT-5000                            *

Goal.  Introduce principals of instruction

Requirement.
Performance Standard.  N/A

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

IUT-5010                            *

Goal.  Describe individual T&R requirements

Requirement.
Performance Standard.  N/A

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

IUT-5020                            *

Goal. Conduct T&R instruction

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

IUT-5100                     *

Goal. Describe the Aviation Training and Readiness (T&R) Program

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

IUT-5110                     *

Goal. Conduct instructor evaluations

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

IUT-5120                    *

    Goal.  Perform T&R administration

    Requirement.
    Performance Standard.  N/A

    Instructor.  SI

    Prerequisite.  None

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.

IUT-5130                    *

    Goal.  Develop a training plan

    Requirement.
    Performance Standard.  N/A

    Instructor.  SI

    Prerequisite.  None

    Ordnance.  None

    Range.  None

    External Syllabus Support.  None

    Reference.

4.14  REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000)

4.14.1  Purpose.  This phase provides community standardization for technician qualifications and designations; combat leaders and instructor designations; and tracking of collateral duties (CD) assignments,.  This syllabus does not contain "one time" certification training requirements.

4.14.2  General.

4.14.2.1  Prerequisite. NONE.

4.14.2.2  Admin Notes.

(1) This section enables units to document and track combat leaders, instructors, technician and CD assignments.  All syllabus training and administration requirements must be complete prior to being qualified or designated.  A qualification or designation is not effective until all administration is completed.

(2) Only once an individual is qualified or designated in writing, the signed letter is filed in the IPR, and all administrative actions are completed, and the event code has been logged in M-SHARP shall the qualification or designation be effective.

4.14.2.3  Stages.  The following stages are included in the Requirements, Certifications, Qualifications, and Designations Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 4.14.3 | QUALIFICATION (QUAL) |
| 4.14.4 | DESIGNATION (DESG) |

4.14.3  QUALIFICATIONS (QUAL) STAGE

4.14.3.1  Purpose.  To provide the path to obtain IOW, IOS, AFATDS, and TBMCS Web Remote qualifications.  Refer to the Core Skill Basic and Advanced phases for qualification syllabus.

4.14.3.2  General

Prerequisite.  None

Admin Notes.  Qualification codes will be logged upon completion of qualification requirements; the qualification letter has been signed by the commanding officer, filed in the individual's IPR, and an entry logged.  Policies and rules for maintaining qualifications are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements.  None

QUAL-6560                 0

Goal.  Qualification as a Tactical Data Systems Administrator Basic Technician (TDSABT), DASC

Requirement.
Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2000, 2001, 2020, 2021, 2040, 2041, 2100, 2101, 2102, 2103, 2130, 2250, 2251, 2252, 2256, 2257, 2258, 2276, 2277, 2278, 2280, 2281, 2282, 2284, 2285, 2286, 3040

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

QUAL-6561            0

     Goal. Qualification as a Tactical Data Systems Administrator Advanced Technician (TDSAAT), DASC

     Requirement.
     Performance Standard. N/A

     Instructor. WTI

     Prerequisite. 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2800, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2845, 2846, 2847, 2848, 3000, 3001, 3040, 3144, 3145, 3146, 3147, 8000

     Ordnance. None

     Range. None

     External Syllabus Support. None

     Reference.

QUAL-6562            0

     Goal. Qualification as a Tactical Data Systems Administrator Crew Chief (TDSACC), DASC

     Requirement.
     Performance Standard. N/A

     Instructor. WTI

     Prerequisite. 2000, 2001, 2002, 2004, 2020, 2021, 2022, 2023, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2800, 2801, 2802, 2803, 2808, 2809, 3002, 3003, 3020, 3040, 3041, 3042, 3144, 3145, 3146, 3147, 3148, 8000

     Ordnance. None

     Range. None

     External Syllabus Support. None

     Reference.

4.14.4 DESIGNATIONS (DESG) STAGE

4.14.4.1 Purpose. To provide for designation of combat leaders and instructors. Designations are command

specific and expire when an individual transfers out of a command.  In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded.  The gaining command shall review the IPR to ensure prerequisite R-coded events for a designation are current prior to approving that designation.  If prerequisite R-coded events are delinquent, the individual shall update those events.

4.14.4.2  General

Prerequisite.  NONE.

Admin Notes.  Policies and rules for attaining and maintaining designations are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements.  NONE.

DESG-6100       1.0       *       B                                                              L

Goal.  Designation as a Maintenance Safety NCO.

Requirement.  Perform all duties associated with the Maintenance Safety NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2064, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Unit SOP

DESG-6101       1.0       *       B                                                              L

Goal.  Designation as a Maintenance HAZMAT NCO.

Requirement.  Perform all duties associated with the Hazmat NCO IAW the reference for a period no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2064, 2100

Ordnance.  None

Range.  None

External Syllabus Support. None

Reference.
1. Unit SOP


DESG-6102      1.0      *      B                                              L

Goal. Designation as a Maintenance Publications NCO.

Requirement. Perform all duties associated with the Publications NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2063, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2


DESG-6103      1.0      *      B                                              L

Goal. Designation as a Maintenance Tools NCO.

Requirement. Perform all duties associated with the Tools NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2062, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2


DESG-6104      1.0      *      B                                              L

Goal. Designation as a Maintenance Calibrations NCO.

Requirement. Perform all duties associated with the Calibrations NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2060, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2

DESG-6105        1.0        *        B                                                            L

Goal. Designation as a Maintenance Modifications NCO.

Requirement. Perform all duties associated with the Modifications NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2061, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2

DESG-6106        1.0        *        B                                                            L

Goal. Designation as a Maintenance Embarkation NCO.

Requirement. Perform all duties associated with the Embarkation NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor.  WTI

Prerequisite.  2065, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Unit SOP


DESG-6107        1.0        *        B                                                                L

Goal.  Designation as a Maintenance Management NCO.

Requirement.  Perform all duties associated with the Marine Corps Integrated Maintenance Management System (MIMMS) NCO IAW the reference for a period of no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2100, 2102, 2107

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2


DESG-6108        1.0        *        B                                                                L

Goal.  Designation as a Maintenance Training NCO.

Requirement.  Perform all duties associated with the Training NCO IAW the reference for a period of no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2068, 2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Unit SOP


DESG-6110        1.0       *       B                                                        L

Goal.  Designation as a SYSAD Maintenance Quality Control (QC) NCO.

Requirement.  Perform all duties associated with the Quality Control NCO IAW the reference for a period of no less than 90 days.  Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2067, 2100, 2101, 2102, 2103, 2104, 2105, 2130, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2800, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2845, 2846, 2847, 2848, 3000, 3001, 3040, 3144, 3145, 3146, 3147, 8000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2


DESG-6250                0       B

Goal.  Designation as Information Assurance Technician Level I (IAT I)

Requirement.  Complete the requirements to attain Information Assurance Technician Level I in accordance with the current cybersecurity references.

Performance Standard.  Complete requirements in accordance with the reference.

Instructor.  WTI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DOD 8570.01-M

2. DOD Directive 8140.01
3. http://iase.disa.mil

DESG-6251    0   B

  Goal. Designation as Information Assurance Technician Level II (IAT II)

  Requirement. Complete the requirements to attain Information Assurance Technician Level II in accordance with the current cybersecurity references.

  Performance Standard. Complete requirements in accordance with the reference.

  Instructor. WTI

  Prerequisite. None

  Ordnance. None

  Range. None

  External Syllabus Support. None

  Reference.
  1. DOD 8570.01-M
  2. DOD Directive 8140.01
  3. http://iase.disa.mil

DESG-6253    0   B

  Goal. Designation as Information Assurance Manager Level I (IAM I)

  Requirement. Complete the requirements to attain Information Assurance Manager Level I in accordance with the current cybersecurity references.

  Performance Standard. Complete requirements in accordance with the reference.

  Instructor. WTI

  Prerequisite. None

  Ordnance. None

  Range. None

  External Syllabus Support. None

  Reference.
  1. DOD 8570.01-M
  2. DOD Directive 8140.01
  3. http://iase.disa.mil

DESG-6320  1.0  *  B          L

Goal.  Designation as a Basic Instructor (BI).

Requirement.  Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  5000, 5010, 5020

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  NAVMC 3500.14


DESG-6321       1.0       *       B                                                                L

Goal.  Designation as a Senior Instructor (SI).

Requirement.  Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  5000, 5010, 5020, 5100, 5110, 5120, 5130

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  NAVMC 3500.14

DESG-6563                   0

Goal.  Designation as a Tactical Data Systems Administrator Maintenance Chief (TDSAMC), DASC

Requirement.
Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2000, 2001, 2002, 2003, 2005, 2006, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2276, 2277, 2278, 2279,

2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2800, 2801, 2802, 2803, 2805, 2806, 2808, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 3000, 3001, 3003, 3020, 3021, 3022, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3144, 3145, 3146, 3147, 3148, 8000, 8020, 8040, 8060, 8080

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

4.14.5  CERTIFICATION (CERT) STAGE

4.14.5.1  Purpose.  To provide for certifications of Information Assurance Work Force personnel. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a certification are current prior to approving that certification. If prerequisite R-coded events are delinquent, the individual shall update those events.

4.14.5.2  General

   Prerequisite.  None

   Admin Notes.   Policies and rules for attaining and maintaining certifications are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements.  None

CERT-6260      4.0      *      B                                         L

   Goal.     COMPTIA A+ Certified.

   Requirement.        Complete the required industry certification exam.  Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

   Performance Standard.          Complete requirements in accordance with the reference.

   Prerequisite.          None

   Ordnance.        None

   Range.      None

   External Syllabus Support.            None

   Reference.
   1.    DoD 8570.01M

CERT-6261      4.0      *      B                                         L

   Goal.     COMPTIA Network+ Certified.

Requirement.        Complete the required industry certification exam.  Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard.              Complete requirements in accordance with the reference.

Prerequisite.

Ordnance.      None

Range.      None

External Syllabus Support.               None

Reference.
1.    DoD 8570.01M


CERT-6262        4.0        *        B                                        L

Goal.  COMPTIA Security+ Certified.

Requirement.  Complete the required industry certification exam.  Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard.  Complete requirements in accordance with the reference.

Prerequisite.             None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DoD 8570.01M

4.15  MISSION ESSENTIAL TASK (MET) PHASE (7000)

4.15.1  Purpose.  This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

4.15.2  General

4.15.2.1  Prerequisite.  Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase.  For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

4.15.2.2  Admin Notes.  Prerequisites for this phase of training cannot be waived.  Multiple events can be trained at the same time as long as separate evaluations are being conducted.

4.15.2.3  Stages.  The following stages are included in the Mission Essential Task (MET) Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|

| 4.15.3 | CONDITION (COND) |
|--------|------------------|

4.15.3 <u>CONDITION (COND) STAGE</u>

4.15.3.1 <u>Purpose</u>.  To train unit level teams in executing community specific MET(s) or MET preparatory events.

4.15.3.2 <u>General</u>

   <u>Prerequisite</u>.  If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

  <u>Admin Notes</u>.  All events in this stage will require the following administrative/operational documents to be identified or created:

    1. Letter Of Intent (LOI)
    2. Personnel Roster
    3. Bill Of Material (BOM)
    4. Equipment Density List (EDL)

  <u>Crew Requirements</u>.

COND-7400  3.0  365  B,R,M   ASLT/DASC  E  L/S

   <u>Goal</u>.  Employ an ASLT.

   <u>Requirement</u>.  Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ an ASLT to include the following:

   1. Conduct Mission Analysis
   2. Review Operational Planning Documents
   3. Identify required support personnel
   4. Identify equipment requirements
   5. Conduct a site survey
   6. Identify, create, and finalize administrative documents supporting the operation
   7. Coordinate with external agencies
   8. Conduct embarkation, and retrograde of personnel and equipment
   9. Maintain accountability of ASLT personnel
   10. Conduct ASLT operations
   11. Conduct crew evaluations
   12. Compile After-Action items

   <u>Performance Standard</u>.   Perform the requirement items listed and conduct ASLT operations supporting the DASC during a minimum operational tempo three (3) real world operation or training simulation.

   <u>Prerequisite</u>.   A CMMR ASLT Crew

   <u>Instructor</u>.   C3 WTI as designated or requested by the MASS Commander.

   <u>Ordnance Requirement</u>.  None

   <u>Range/Target Requirement</u>.  Range space capable of hosting ground and air fires

External Syllabus Support. FSCC, air and fire support missions as defined by operational tempo level three, a DASC, S-1, S-2, S-3, S-4, S-6

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
2. MCWP 3-25.5, DASC Handbook
3. Squadron SOP

COND-7405     3.0     365     B,R,M          ASE     E     L/S

Goal. Employ an ASE.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ an ASE to include the following:

1. Conduct Mission Analysis
2. Review Operational Planning Documents
3. Identify required support personnel
4. Identify equipment requirements
5. Conduct a site survey
6. Identify, create, and finalize administrative documents supporting the operation
7. Coordinate with external agencies
8. Conduct embarkation, and retrograde of personnel and equipment
9. Maintain accountability of ASE personnel
10. Conduct ASE operations
11. Conduct crew evaluations
12. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct ASE operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. A CMMR ASE Crew

Instructor. C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement. None

Range/Target Requirement. Range space capable of hosting ground and air fires

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, air and fire support missions as defined by operational tempo three, FFCC/FSCC, and if required, a SACC and NTACC/HDC

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
3. MCWP 3-25.5, DASC Handbook
4. Squadron SOP

COND-7410     3.0     365     B,R,M                    E     L/S

Goal. Employ a DASC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ a DASC to include the following:

1. Conduct Mission Analysis
2. Review Operational Planning Documents
3. Identify required support personnel
4. Identify equipment requirements
5. Conduct a site survey
6. Identify, create, and finalize administrative documents supporting the operation
7. Coordinate with external agencies
8. Conduct embarkation, and retrograde of personnel and equipment
9. Maintain accountability of personnel
10. Emplace a DASC
11. Conduct DASC operations
12. Conduct crew evaluations
13. Compile After-Action items

Performance Standard.   Perform the requirement items listed and conduct DASC operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.   Minimum of two CMMR DASC Crews

Instructor.   C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None

Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability

Reference.
1. U-DASC-PCL-5532, DASC Pocket Checklist
3. MCWP 3-25.5, DASC Handbook
4. Squadron SOP


COND-7415       3.0       365       B,R,M                        E        L/S

Goal.   Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the DASC.

Requirement.   Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operation plan's initiating order, conduct a RSOP for DASC operations to include the following:

1. Conduct a Map Survey selecting primary and alternate sites
2. Identify environmental concerns that may affect DASC communication
3. Coordinate with the FSCC to provide DASC requirements
4. Coordinate site security, camouflage, dispersion, and trafficability
5. Identify locations for emplacement of communications and support equipment
6. Coordinate priorities for equipment emplacement
7. Identify echelon considerations
8. Identify Advanced Party/RSOP Team
9. Occupy the site
10. Emplace the DASC

Performance Standard.   Perform the requirement items.  The RSOP team will be prepared to discuss decisions/actions.

Prerequisite.

Instructor.   C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None

Range/Target Requirement.  None

External Syllabus Support.  MASS Detachment Commander, DASC Chief, security team, Representatives from the following sections: S-4, S-2, S-6

Reference.
1.   U-DASC-PCL-5532, DASC Pocket Checklist
2.   MCWP 3-16.3, TTP for the Field Artillery Cannon Battery
3.   MCWP 3-25.5, DASC Handbook
4.   Squadron SOP


COND-7420      3.0      365      B,R,M            DASC   E        L/S

Goal.   Conduct Echelon Operations.

Requirement.   Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, conduct echelon operations to include the following:

1.  Continue DASC operations without pause or loss of situational awareness
2.  Checklists for the transfer of control are on hand and are utilized
3.  Deploy the echelon element to the new position
4.  Brief the operational crew concerning their duties for passage of control
5.  Establish and maintain DASC communications requirement
6.  Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted
7.  Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place
8.  Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft is verified
9.  Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft is verified
10.  Review status of all Tactical Air and Assault Support equests and ensure they are plotted and on hand
12.  Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets
13.  Maintain continuous coordination with adjacent and higher agencies during preparation for and transfer of OAS/AS control, if required
14.  Pass control of DASC functions to the echelon element
15.  Notify the TACC, FSCC, and other agencies, as necessary, control has been passed
16.  Recover the rear element into the DASC when echelon operations have concluded
17.  Debrief with the DASC OIC and DASC Chief

Performance Standard.   Perform the requirement items listed to conduct echelon operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.   Two CMMR DASC crews

Instructor.   C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None

Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three, digital backbone, and if required, aircraft designated to provide an airborne DASC capability

Reference.
1.  U-DASC-PCL-5532, DASC Pocket Checklist
2.  MCWP 3-25.5, DASC Handbook
3.  Squadron SOP


COND-7425     3.0     365     B,R,M          DASC   E        S/L

Goal.   Conduct Phasing of Control Ashore.

Requirement.   Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, conduct phasing of control ashore to include the following:

1.  Conduct a Map Survey selecting primary and alternate sites
2.  Checklists for the transfer of control ashore are on hand and utilized
3.  Review the procedures delineated in the operation plan/other directives for the phasing of control ashore and keeps the Naval Tactical Air Control Center informed of current status
5.  Deploy ashore
6.  Brief the operational crew concerning their duties for the passage of control
7.  Establish and maintain DASC specific communication requirements
8.  Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted
9.  Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place
10.  Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft
11.  Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft
12.  Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand
13.  Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets
14.  Ensure all requirements have been met and then advise the TACC (afloat) and FSCC that the DASC is prepared for the phasing of control of OAS/AS ashore
15.  Ensure the preplanned sequence of phasing control of OAS/AS ashore is completed and the SAD acknowledges/produces any reports required
16.  Advise CLF when ready to assume control of all or a portion of direct air support ashore (specify OAS, Assault Support, Air Recce, EW) at a specified date and time
17.  Advise CLF that control has been transferred and the date/time group that transfer was accomplished
18.  Advise the TACC (afloat)/TADC (ashore) and FSCC that the DASC now has control referencing date and time (local)
19.  Maintain continuous coordination with adjacent and higher agencies

20.  Notify all adjacent agencies when transfer of control is completed

21.  As necessary, DASC/SACC liaison team provides further updates of information upon arrival at DASC site

Performance Standard.   Perform the requirement items listed to conduct phasing control ashore during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.   ASE, DASC

Instructor.   C3 WTI as designated or requested by the MASS Commander.

Ordnance Requirement.  None

Range/Target Requirement.  Range space capable of hosting ground and air fires

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three, digital backbone, Navy TACC, FSCC, Marine TACC, LFOC, SACC/HDC

Reference.
1.   U-DASC-PCL-5532, DASC Pocket Checklist
2.   MCWP 3-25.5, DASC Handbook
3.   Squadron SOP
4.  MCWP 3-16.3, Tactics, Techniques, and Procedures for the Field Artillery   Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
5.  JP 3-02.1 Joint Doctrine for Landing Forces Operations
6.  MCWP 3-40.3 MAGTF Communications System

4.16  AVIATION CAREER PROGRESSION MODEL (8000).

4.16.1  Purpose.  To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

Marine Air Command and Control System (MACCS)
Aviation Ground Support
Joint Air Operations
ACE Battle Staff
MAGTF
Seabased Operations
Combatant Commander Organizations

4.16.2  General.  The ACPM is intended to be an integrated series of academic events contained within each phase of training.  Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages.  Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction.  In the future, courses may be consolidated or revised to meet changing requirements.  Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/Aviation%20Career%20Progression%20Model/Forms/All Items.aspx

Completed events shall be manually logged and tracked in M-SHARP.

ACPM academic events, along with their identifying prerequisite association with other training

phases/stages/events, are listed below.

| STAGE | TRNG CODE | T&R DESCRIPTION | | ACAD TIME | TO BE COMPLETED DURING |
|---|---|---|---|---|---|
| ACPM | 8000 | **MACCS** | | 1 | 2000 |
| ACPM | 8001 | MARINE AIR COMMAND AND CONTROL SYSTEM | | 4 | 2000 |
| ACPM | 8002 | TACTICAL AIR COMMAND CENTER (TACC) | | 4 | 2000 |
| ACPM | 8003 | DIRECT AIR SUPPORT CENTER (DASC) | | 4 | 2000 |
| ACPM | 8004 | TACTICAL AIR OPERATIONS CENTER (TAOC) | | 4 | 2000 |
| ACPM | 8005 | MARINE AIR TRAFFIC CONTROL (MATC) | | 4 | 2000 |
| ACPM | 8006 | LOW ALTITUDE AIR DEFENSE (LAAD) | | 4 | 2000 |
| ACPM | 8007 | MARINE UNMANNED AERIAL VEHICLE SQUADRON | | 4 | 2000 |
| ACPM | 8008 | MARINE WING COMMUNICATION SQUADRON (MWCS) | | 4 | 2000 |
| ACPM | 8020 | **ACE** | | 1 | 3000 |
| ACPM | 8021 | AVIATION OPERATIONS | | 4 | 3000 |
| ACPM | 8022 | CONTROL OF AIRCRAFT AND MISSILES | | 4 | 3000 |
| ACPM | 8023 | OFFENSIVE AIR SUPPORT (OAS) | | 4 | 3000 |
| ACPM | 8024 | ASSAULT SUPPORT | | 4 | 3000 |
| ACPM | 8025 | AIR RECONNAISSANCE | | 4 | 3000 |
| ACPM | 8026 | ELECTRONIC WARFARE | | 4 | 3000 |
| ACPM | 8027 | ANTI-AIR WARFARE | | 4 | 3000 |
| ACPM | 8028 | AVIATION GROUND SUPPORT | | 4 | 2000 |
| ACPM | 8040 | **THREAT** | | 1 | 4000 |
| ACPM | 8041 | SURFACE TO AIR THREAT TO THE MAGTF | | 4 | 4000 |
| ACPM | 8042 | FIXED WING THREAT TO THE MAGTF | | 4 | 4000 |
| ACPM | 8043 | ROTARY WING THREAT TO THE MAGTF | | 4 | 4000 |
| ACPM | 8044 | MISSILE AND UAS THREAT TO THE MAGTF | | 4 | 4000 |
| ACPM | 8060 | **MAGTF** | | 1 | 3000 |
| ACPM | 8061 | GROUND COMBAT OPERATIONS | | 4 | 3000 |
| ACPM | 8062 | FIRE SUPPORT COORDINATION IN THE GCE | | 4 | 3000 |
| ACPM | 8063 | MAGTF COMMAND AND CONTROL | | 4 | 2000 |
| ACPM | 8064 | MAGTF COMMUNICATIONS | | 4 | 3000 |
| ACPM | 8065 | PHASING CONTROL ASHORE | | 4 | 3000 |
| ACPM | 8066 | INFORMATION MANAGEMENT | | 4 | 3000 |
| ACPM | 8067 | UAS SUPPORT TO THE MAGTF | | 4 | 3000 |
| ACPM | 8080 | **JOINT AIR OPERATIONS** | | 1 | 3000 |
| ACPM | 8081 | COMMAND AND CONTROL OF JOINT AIR OPERATIONS | | 4 | 3000 |
| ACPM | 8082 | THEATER AIR CROUND SYSTEM (TAGS) | | 4 | 3000 |
| ACPM | 8083 | JOINT FIRE SUPPORT | | 4 | 3000 |
| ACPM | 8084 | CLOSE AIR SUPPORT | | 4 | 3000 |
| ACPM | 8085 | JOINT TARGETING | | 4 | 3000 |
| ACPM | 8086 | NORTH ATLANTIC TREATY ORGANIZATION (NATO) | | 4 | 3000 |

| ACPM | 8087 | JOINT AIRSPACE CONTROL | | 4 | 3000 |
|------|------|------------------------|---|---|------|
| ACPM | 8088 | COUNTERING AIR AND MISSILE THREATS | | 4 | 3000 |
| TOTAL ACPM STAGE | | | 40 | 145 | |

4.17 <u>T&R SYLLABUS MATRIX</u>

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS) |
| 59CM | 1500 | Describe the characteristics of the Marine Air Command and Control System (MACCS). | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1501 | Measure circuit performance. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1502 | Establish secure RF communications using radios within the MACCS. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1503 | Manage UNIX based systems. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1504 | Provide cyberwarfare technical support for MACCS specific equipment. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1505 | Repair common cables. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1506 | Demonstrate an earth ground installation. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| colspan="9" | TOTAL CORE INTRODUCTION STAGE (1000 PHASE EVENTS) | 7 | 0 | 0 | 0 | | 0 | | | | |
| CORE SKILLS TRAINING (2000 PHASE EVENTS) |
| SECURITY (SEC) |
| SEC | 2000 | Describe proper handling and storage of classified materials. | B,R,M | | L | - | - | - | 365 | | 0 | | 0 | | 2 | - | - | - | - |
| SEC | 2001 | Configure Network Security. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2000 | - | - | - |
| SEC | 2002 | State the physical security requirements for classified areas. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| SEC | 2003 | Extract key material information from EKMS/KMI COMSEC callout. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2000 | - | - | - |
| SEC | 2004 | Create a classified area physical security diagram. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2000,2002 | - | - | - |
| SEC | 2005 | Ensure classified material handling procedures are followed. | B,M | | L | - | - | - | * | | 0 | | 0 | | 3 | 2000 | - | - | - |
| SEC | 2006 | Configure the Link Management System Multi Tactical Data Link (LMS-MT) | B | | L | - | - | - | * | | 0 | | 0 | | 4 | 2000 | - | - | - |

| STAGE | EVENT | | | POI | E | DEVICE | | | COND | REFLY | GROUND/ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | |
| | | TOTAL SECURITY STAGE (SEC) | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 17 | | | | |
| | | FAMILIARIZATION (FAM) | | | | | | | | | | | | | | | | | | |
| FAM | 2020 | Measure Soil Resistivity. | B,RM | | L | - | - | - | * | | | 0 | | 0 | | 3 | - | - | - | - |
| FAM | 2021 | Operate the handheld GPS | B | | L | - | - | - | * | | | 0 | | 0 | | 2 | - | - | - | - |
| FAM | 2022 | Describe the characteristics of unit T/E generators. | B | | L | - | - | - | * | | | 0 | | 0 | | 2 | - | - | - | - |
| FAM | 2023 | Describe TACLANE | B | | L | - | - | - | * | | | 0 | | 0 | | 1 | - | - | - | - |
| | | TOTAL FAMILIARIZATION STAGE (FAM) | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 8 | | | | |
| | | COMPUTER AND NETWORK TRAINING (CANT) | | | | | | | | | | | | | | | | | | |
| CANT | 2040 | Explain application, data, and host security. | B,R,M | | L | - | - | - | 1095 | | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2041 | Perform account management. | B,R,M | | L | - | - | - | 1095 | | | 0 | | 0 | | 2 | - | - | - | - |
| CANT | 2042 | Explain Network Security | B,R,M | | L | - | - | - | 1095 | | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2043 | Explain Network Operational Security. | B,R,M | | L | - | - | - | 1095 | | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2044 | Explain threats and vulnerabilities. | B,R,M | | L | - | - | - | 1095 | | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2045 | Explain computer and network cryptography. | B,R,M | | L | - | - | - | 1095 | | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2046 | Explain access control and identity management security measures. | B,R,M | | L | - | - | - | 1095 | | | 0 | | 0 | | 4 | - | - | - | - |
| | | TOTAL COMPUTER AND NETWORK STAGE (CANT) | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 26 | | | | |
| | | COLLATERAL DUTY (CD) | | | | | | | | | | | | | | | | | | |
| CD | 2060 | Identify the Maintenance Calibrations program. | B | | L | - | - | - | * | | | 0 | | 0 | | 1 | 2100 | - | - | - |
| CD | 2061 | Identify the Maintenance Modification program. | B | | L | - | - | - | * | | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2062 | Manage the Tool Control | B | | L | - | - | - | * | | | 0 | | 0 | | 2 | 2100 | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | | | |
| | | program. | | | | | | | | | | | | | | | | | |
| CD | 2063 | Identify the Maintenance Publication Library | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2064 | Identify major Maintenance Safety Program elements. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2065 | Identify the key elements of the Maintenance Embarkation Program. | B | | L | - | - | - | * | | 0 | | 0 | | 3 | 2100 | - | - | - |
| CD | 2066 | Identify the equipment record jacket. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2100 | - | - | - |
| CD | 2067 | Identify Quality Control Procedures. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2068 | Identify the Maintenance Training program. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| TOTAL COLLATERAL DUTY STAGE (CD) | | | | | | | | | | 0 | 0 | 0 | 0 | 9 | 17 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | | | | | | | | | | |
| MMGT | 2100 | Complete Maintenance Management Program indoctrination training. | B | | G | - | - | - | * | | 40 | | 0 | | 0 | - | - | - | - |
| MMGT | 2101 | Conduct an SL-3 inventory. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2102 | Initiate a service request. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| MMGT | 2103 | Create a Preventive Maintenance Checks and Services (PMCS) schedule. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| MMGT | 2104 | Submit a Product Quality Deficiency Report (PQDR) | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2105 | Identify the SECREP management process. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2102 | - | - | - |
| MMGT | 2106 | Explain equipment disposition procedures. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | 2101, 2102 | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX |||||||||||||||||||
| MMGT | 2107 | Reconcile Global Combat Support System (GCSS) reports. | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| MMGT | 2108 | Verify inventory control procedures are implemented. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2102 | - | - | - |
| MMGT | 2109 | Draft a Table of organization and equipment (TO&E) Change Request (TOECR). | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2110 | Identify the Marine Corps Urgent Needs Process (MCUNP) | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2111 | Induct new equipment into service. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2112 | Identify the types of funds. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TOTAL SYSAD STAGE (SYSAD) |||||||||| 13 | 40 | 0 | 0 | | 25 | | | | |
| DEPLOYMENT (DEPL) |||||||||||||||||||
| DEPL | 2130 | Write a packing list. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2131 | Extract key information from communication planning documents. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2132 | Determine supply support requirements. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 2133 | Identify power requirements. | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | 2022 | - | - | - |
| DEPL | 2134 | Fill out Logistics Support Request | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| DEPL | 2135 | Conduct a site survey. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2022, 2133 | - | - | - |
| DEPL | 2136 | Write an Equipment Density List (EDL) | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 2137 | Develop an embarkation plan. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | 2134, 2136 | - | - | - |
| DEPL | 2138 | Complete a Bill of Material (BOM) request. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | 2132 | - | - | - |
| DEPL | 2139 | Describe common agency doctrinal nets. | B | | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| DEPL | 2140 | Identify spectrum management procedures. | B,R,M, | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |

| STAGE | EVENT | | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | N O T E S | C H A I N | EVE NT CO NV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO DE | TITLE | | | | T Y P E | # | O P T I O N | | | # | TIM E | # | TIM E | # | TIM E | | | | |
| DEPL | 2141 | Idenify communication service requirements. | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2142 | Identify crew requirements and write a crew schedule. | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2143 | Develop data recovery management plan. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| TOTAL DEPLOYMENT STAGE (DEPL) | | | | | | | | | | | 0 | 0 | 0 | 0 | 14 | 54 | | | | |
| SYSTEM ADMINISTRATION (SYSAD) | | | | | | | | | | | | | | | | | | | | |
| SYSAD | 2250 | Configure workstation. | | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 2251 | Configure peripherals | | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2252 | Perform logfile management on a tactical data system. | | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2253 | Apply software release updates | | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 2254 | Update firmware for Command and control Systems. | | B,R | | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| SYSAD | 2255 | Manage ADPE | | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2041, 2250, 2251, 2252, 2253, 2254 | - | - | - |
| SYSAD | 2256 | Setup AFATDS equipment | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2257 | Install AFATDS software | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2258 | Configure AFATDS | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2259 | Maintainthe AFATDS. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2257, 2258 | | | |
| SYSAD | 2276 | Setup the Processing Display System. | | B | | L | - | - | - | * | | 0 | | 0 | | 6 | - | - | - | - |
| SYSAD | 2277 | Install PDS software | | B | | L | - | - | - | * | | 0 | | 0 | | 40 | - | - | - | - |
| SYSAD | 2278 | Cinfigure the PDS. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 2279 | Maintain the PDS. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2276, 2277, 2278 | - | - | - |
| SYSAD | 2280 | Setup the Tactical COP Workstation (TCW) | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2281 | Install TCW Software | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2282 | Configure TCW equipment. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2283 | Maintain TCW equipment. | | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2280, 2281, 2282 | - | - | - |
| SYSAD | 2284 | Setup the Blue force Tracker (BFT) Tactical Operations Center Kit | | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | | | | |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | G/A # | G/A TIME | SIM # | SIM TIME | LIVE # | LIVE TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |

**DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX**

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | G/A # | G/A TIME | SIM # | SIM TIME | LIVE # | LIVE TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SYSAD | 2285 | Install BFT TOC Kit Software/Firmware | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2286 | Configure the BFT TOC Kit. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 2287 | Maintain the BFT TOC Kit. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2284, 2285, 2286 | - | - | - |
| TOTAL SYSTEM ADMINISTRATION STAGE (SYSAD) | | | | | | | | | | 0 | 0 | | 0 | 22 | 95 | | | | |
| TACTICAL DATA LINKS (TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 2800 | Identify the purpose of documents that enable Tactical Data Link operations | B,M,R | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2801 | Identify TACC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2802 | Identify TAOC and EW/C voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2803 | Identify DASC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2805 | Identify LAAD voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | | | |
| TDL | 2806 | Identify MATC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | | | | |
| TDL | 2808 | Describe the Joint Data Network | B,RM | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | | | | |
| TDL | 2809 | Describe the Multi-Tactical Data Link (TDL) Interface. | B,R,M | | G | - | - | - | 1095 | | 20 | | 0 | | 0 | | | | |
| TDL | 2815 | State the characteristics of Link 11 | B | | G | - | - | - | 0 | | 10 | | 0 | | 0 | 2809 | | | |
| TDL | 2816 | State the characteristics of Link 11B | B | | G | - | - | - | 0 | | 10 | | 0 | | 0 | 2809 | | | |
| TDL | 2818 | State the characteristics of Link 16 | B | | G | - | - | - | 0 | | 30 | | 0 | | 0 | 2818 | | | |
| TDL | 2819 | State the characteristics of the Joint Range Extension Application Protocol (JREAP) | B | | G | - | - | - | 0 | | 20 | | 0 | | 0 | 2819 | | | |
| TDL | 2823 | State the characteristics of the Variable Message Format (VMF) | B | | G | - | - | - | 0 | | 10 | | 0 | | 0 | | | | |
| TDL | 2826 | State the characteristcs of Cooperative Engagement | B | | G | - | - | - | 0 | | 10 | | 0 | | 0 | | | | |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |

DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ACADEMIC # | TIME | SIM # | TIME | LIVE # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Capability. | | | | | | | | | | | | | | | | | |
| TDL | 2827 | Configure the Joint Range Extension (JRE). | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | | | | |
| TDL | 2828 | Operate a Joint Range Extension (JRE) Gateway. | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | | | | |
| TDL | 2829 | Configure the Air Defense System Integrator (ADSI) | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | 2800, 2809 | | | |
| TDL | 2830 | Operate an Air Defense System Integrator (ADSI) | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | 2800, 2809 | | | |
| TDL | 2831 | Setup Link 11 equipment. | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | 2800, 2809 | | | |
| TDL | 2832 | Operate Link 11. | B | | L | - | - | - | 0 | | 0 | | 0 | | 8 | 2800, 2809 | | | |
| TDL | 2835 | Setup Link 16 equipment. | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | 2800, 2809 | | | |
| TDL | 2836 | Operate Link 16. | B | | L | - | - | - | 0 | | 0 | | 0 | | 8 | 2800, 2809 | | | |
| TDL | 2837 | Setup JREAP-A equipment | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | 2800, 2809 | | | |
| TDL | 2838 | Operate JREAP A. | B | | L | - | - | - | 0 | | 0 | | 0 | | 8 | 2800, 2809 | | | |
| TDL | 2839 | Setup JREAP B. | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | 2800, 2809 | | | |
| TDL | 2840 | Operate JREAP B. | B | | L | - | - | - | 0 | | 0 | | 0 | | 8 | 2800, 2809 | | | |
| TDL | 2841 | Setup JREAP C equipment. | B | | L | - | - | - | 0 | | 0 | | 0 | | 2 | 2800, 2809 | | | |
| TDL | 2842 | Operate JREAP C | B | | L | - | - | - | 0 | | 0 | | 0 | | 8 | 2800, 2809 | | | |
| TDL | 2843 | Troubleshoot link 11 | B | | L | - | - | - | 0 | | 0 | | 0 | | 3 | 2800, 2809, 2831, 2832 | | | |
| TDL | 2845 | Troubleshoot Link 16 | B | | L | - | - | - | 0 | | 0 | | 0 | | 3 | 2800, 2809, 2831, 2832 | | | |
| TDL | 2846 | Troubleshoot JREAP A. | B | | L | - | - | - | 0 | | 0 | | 0 | | 3 | 2800, 2809, 2831, 2832 | | | |
| TDL | 2847 | Troubleshoot JREAP B. | B | | L | - | - | - | 0 | | 0 | | 0 | | 3 | 2800, 2809, 2831, 2832 | | | |
| TDL | 2848 | Troubleshoot JREAP C. | B | | L | - | - | - | 0 | | 0 | | 0 | | 3 | 2800, 2809, 2831, 2832 | | | |
| TOTAL TACTICAL DATA LINKS (TDL) | | | | | | | | | | 14 | 180 | 0 | 0 | 19 | 73 | | | | |
| TOTAL MISSION SKILL (2000 PHASE EVENTS) | | | | | | | | | | 15 | 220 | 0 | 0 | 94 | 315 | | | | |
| MISSION SKILL TRAINING (3000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| COMPUTER AND NETWORK TRAINING (CANT) | | | | | | | | | | | | | | | | | | | |
| CANT | 3000 | Plan a Local Area Network | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX |||||||||||||||||||
| CANT | 3001 | Administer data system host security measures. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |
| CANT | 3002 | Perform network management. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |
| CANT | 3003 | Design network architecture. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |
| TOTAL COMPUTER AND NETWORK TRAINING SKILLS STAGE (CANT) |||||||||| 0 | 0 | 0 | 0 | 4 | 20 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) |||||||||||||||||||
| MMGT | 3020 | Ensure the corrective maintenance repair process is being conducted. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2100, 2101, 2102, 2103, 2104, 2105, 2107, 2108 | - | - | - |
| MMGT | 3021 | Inspect maintenance functional areas. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 16 | 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100 | - | - | - |
| MMGT | 3022 | Validate SECREP assets in preparation for float re-computation conference. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2102, 2105 | - | - | - |
| TOTAL MAINTENANCE MANAGEMENT (MMGT) |||||||||| 0 | 0 | 0 | 0 | 3 | 24 | | | | |
| DEPLOYMENT (DEPL) |||||||||||||||||||
| DEPL | 3040 | Prepare system for embark. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2101, 2130 | - | - | - |
| DEPL | 3041 | Identify Operational Requirements. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142 | - | - | - |
| DEPL | 3042 | Develop disaster recovery plan. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2000, 2002, 2022, 2143 | - | - | - |
| DEPL | 3043 | Design a site layout | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140 | - | - | - |
| DEPL | 3044 | Develop a Communications Plan for a MACCS agency. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2139 | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX |
| DEPL | 3045 | Plan for the deployment of Tactical Data Systems. | B,M,R | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 3046 | Develop a Communications Plan for the MACCS | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | - | - | - | - |
| DEPL | 3047 | Conduct post deployment analysis. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2143, 3042 | - | - | - |
| colspan=10 | TOTAL DEPLOYMENT (DEPL) | 0 | 0 | 0 | 0 | 8 | 52 | | | | |
| SYSTEM ADMINISTRATION (SYSAD) |
| SYSAD | 3144 | Employ AFATDS | B,R,M | | L | - | | - | 1095 | | 0 | | 0 | | 2 | 2256, 2257, 2258, 2259 | - | - | - |
| SYSAD | 3145 | Employ the PDS | B,R,M | | L | - | | - | 1095 | | 0 | | 0 | | 6 | 2276, 2277, 2278, 2279 | - | - | - |
| SYSAD | 3146 | Employ the TCW | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 3 | 2280, 2281, 2282, 2283 | - | - | - |
| SYSAD | 3147 | Employ the BFT TOC Kit | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2284, 2285, 2286, 2287 | - | - | - |
| SYSAD | 3148 | Manage agency sysem administration requirements | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2041, 2044, 2143, 2250, 2251, 2252, 2253, 2254, 2255, 3042 | - | - | - |
| colspan=10 | TOTAL SYSTEM ADMINISTRATION (SYSAD) | 0 | 0 | 0 | 0 | 5 | 17 | | | | |
| colspan=10 | TOTAL MISSION SKILL PHASE (3000 PHASE) | 0 | 0 | 0 | 0 | 20 | 113 | | | | |
| CORE PLUS SKILL TRAINING (4000 PHASE EVENTS) |
| SYSTEM ADMINISTRATION (SYSAD) |
| SYSAD | 4260 | Setup CDLS Equipment. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4261 | Install Software in CDLS. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 4262 | Configure the CDLS. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4263 | Maintain the CDLS | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4264 | Setup TBMCS Equipment | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4265 | Install TBMCS Software. | B | | L | - | - | - | * | | 0 | | 0 | | 40 | - | - | - | - |
| SYSAD | 4266 | Configure the TBMCS. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4267 | Maintain TBMCS. | B | | L | - | - | - | * | | 0 | | 0 | | 12 | - | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX | | | | | | | | | |
| SYSAD | 4268 | Setup the Tactical COP Server (TCS). | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| SYSAD | 4269 | Install TCS Software | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 4270 | Configure the TCS. | B | | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| SYSAD | 4271 | Maintain the COC | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 4272 | Setup COC equipment. | B,M | | L | - | - | - | * | | 0 | | 0 | | 40 | - | - | - | - |
| SYSAD | 4273 | Install COC Software. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4274 | Configure the COC | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4275 | Maintain the COC | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4288 | Configure an Integratred Broadcast Service-network Service account. | B,M | | L | - | - | - | 365 | | 0 | | 0 | | 2 | - | - | - | - |
| SYSAD | 4910 | Employ the CDLS | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 12 | - | - | - | - |
| SYSAD | 4911 | Employ TBMCS. | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 12 | - | - | - | - |
| SYSAD | 4912 | Employ the TCS. | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| SYSAD | 4913 | Employ the COC. | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 12 | - | - | - | - |
| TOTAL SYSTEM ADMINISTRATION (SYSAD) | | | | | | | | | | 0 | 0 | 0 | 0 | 21 | 176 | | | | |
| TDS REMOTE (TDSR) | | | | | | | | | | | | | | | | | | | |
| TDL | 4820 | Identify mission essential segments, sets, and fields within the OPTASKLINK. | B | | G | - | - | - | * | | 2 | | 0 | | | - | - | - | - |
| TDL | 4821 | State the purpose of Interface Coordination procedures. | B | | G | - | - | - | * | | 1 | | 0 | | | - | - | - | - |
| TDL | 4824 | Identify elements of Combat Net Radios (CNR) Networks. | B | | G | - | - | - | * | | 1 | | 0 | | | - | - | - | - |
| TDL | 4825 | Identify elements of the OPTASK LINK Combat Net Radios (CNR) Segment/Supplyment. | B | | G | - | - | - | * | | 1 | | 0 | | | - | - | - | - |
| TDL | 4833 | Setup Link 11B Equipment. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TDL | 4834 | Operate Link 11B | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| TDL | 4849 | Conduct tactical data link | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | N O T E S | C H A I N | EVE NT CO NV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO DE | TITLE | | | T Y P E | # | O P T I O N | | | # | TIM E | # | TIM E | # | TIM E | | | | |
| | | planning for an agency. | | | | | | | | | | | | | | | | | |
| TDL | 4850 | Conduct tactical data link coordination for an agency. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4851 | Perform track data coordination for a track producing agency. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4852 | Perform Link Management Functions. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4853 | Perform as the Track Data coordinator. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4854 | Perform Interface Control Officer planning functions. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4855 | Perform Interface Control Officer execution functions. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TOTAL TDL (TDL) SKILLS STAGE | | | | | | | | | | 4 | 5 | 0 | 0 | 9 | 62 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | | | | | | | | | | |
| MMGT | 4900 | Assess maintenance shop performance. | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| MMGT | 4901 | Assess maintenance section funding requirements. | B,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| TOTAL MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | 0 | 0 | 0 | 0 | 2 | 6 | | | | |
| TOTAL CORE PLUS SKILL PHASE (4000 PHASE) | | | | | | | | | | 4 | 5 | 0 | 0 | 32 | 244 | | | | |
| TOTAL 2000, 3000, AND 4000 PHASE | | | | | | | | | | 19 | 225 | 0 | 0 | 146 | 672 | | | | |
| INSTRUCTOR UNDER TRAINING (IUT) | | | | | | | | | | | | | | | | | | | |
| IUT | 5000 | Instroduce principals of instruction. | - | | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5010 | Describe individual T&R requirements. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5020 | Perform T&R administration. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5100 | Describe the Aviation Training & readiness Program. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |

*(Table header spanning row: DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX)*

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| IUT | 5110 | Conduct instructor evaluation. | - | - | - | - | - | - | - | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5120 | Perform T&R administration. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5130 | Develop a training plan. | - | - | - | - | - | - | - | | 0 | | 0 | | 0 | - | - | - | - |
| TOTAL INSTRUCTOR UNDER TRAINING STAGE (IUT) | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| QUAL | 6560 | Tactical Data Systems Administrator Basic Technician (TDSABT) | - | - | - | - | - | | * | | 0 | | 0 | | 0 | | | | |
| QUAL | 6561 | Tactical Data Systems Administrator Advanced Technician (TDSAAT) | - | - | - | - | - | | * | | 0 | | 0 | | 0 | | | | |
| QUAL | 6562 | Tactical Data Systems Administrator Crew Chief (TDSACC) | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | | | | |
| TOTAL INSTRUCTOR UNDER TRAINING STAGE (IUT) | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| CERTIFICATION STAGE (CERTS) | | | | | | | | | | | | | | | | | | | |
| CERT | 6260 | COMPTIA A+ Certification | B | - | L | - | - | - | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| CERT | 6261 | COMPTIA Network+ Certification | B | - | L | - | - | - | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| CERT | 6262 | COMPTIA Security+ Certification | B | - | L | - | - | - | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| TOTAL CERTIFICATION STAGE | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 12.0 | | | | |

DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | DEVICE | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | | | |
| DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
| DESIGNATION | | | | | | | | | | | | | | | | | | | |
| DESG | 6100 | Qualification as a Tactical Data Systems Administrator Basic Technician (TDSABT), DASC | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2064, 2100 | - | - | - |
| DESG | 6101 | Designation as a Maintenance HAZMAT NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2064, 2100 | - | - | - |
| DESG | 6102 | Designation as a Maintenance Publications NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2063, 2100 | - | - | - |
| DESG | 6103 | Designation as a Tools NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2062, 2100 | - | - | - |
| DESG | 6104 | Designation as Maintenance Calibrations NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2060, 2100 | - | - | - |
| DESG | 6105 | Designation as Maintenance Modifications NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2065,2100 | - | - | - |
| DESG | 6106 | Designation as Maintenance Embarkation NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2065, 2100 | - | - | - |
| DESG | 6107 | Designation as Maintenance Training NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2100, 2102, 2107 | - | - | - |
| DESG | 6108 | Designation as Maintenance Management NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2068, 2100 | - | - | - |
| DESG | 6110 | Title Designation as a SYSAD Maintenance Quality Control (QC) NCO. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2000, 2001, 2002, 2003, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2067, 2100, 2101, 2102, | | | |

| DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2103, 2104, 2105, 2130, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2800, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2845, 2846, 2847, 2848, 3000, 3001, 3040, 3144, 3145, 3146, 3147, 8000 | | | |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DESG | 6250 | Designation as Information Assurance Technician Level I (IAT I). | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| DESG | 6251 | Designation as Information Assurance Technician Level II (IAT II). | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| DESG | 6253 | Designation as Information Assurance Manager Level I (IAM I). | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| DESG | 6320 | Designation as Basic Instructor. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| DESG | 6321 | Designation as Senior Instructor. | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| DESG | 6563 | Designation as a Tactical Data Systems Administrator Maintenance Chief (TDSAMC) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | | | | |
| TOTAL DESIGNATION STAGE (DESG) | | | | | | | | | | 0 | 0.0 | 0 | 0 | 5 | 11 | | | | |
| TOTAL DESIGNATION STAGE (DESG) | | | | | | | | | | | | | | | | | | | |

DASC MAINTENANCE MOS 5974 T&R SYLLABUS MATRIX

4.18  <u>ADDITIONAL MATRICES</u>.  None

4.19  <u>ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS</u>.  None

4.20  <u>AVIATION TRAINING FORMS (ATF)</u>.  A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3
website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx

4.21  <u>TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM)</u>.  None

CHAPTER 5

DATA SYSTEMS MAINTENANCE OFFICER (MOS 5970)/INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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CHAPTER 5

DATA SYSTEMS MAINTENANCE OFFICER (MOS 5970)/INDIVIDUAL TRAINING AND READINESS
REQUIREMENTS

5.0  <u>DATA SYSTEMS MAINTENANCE OFFICER /5970 INDIVIDUAL TRAINING AND READINESS
REQUIREMENTS</u>.  This T&R Syllabus is based on specific goals and performance standards designed to ensure
individual proficiency in Core and Mission Skills.  The goal of this chapter is to develop individual and unit
warfighting capabilities.

5.1  <u>5970 TRAINING PROGRESSION MODEL</u>.  This model represents the recommended average training
progression for the Aviation Communications Systems Technician crewmember.  Units should use the model as a
point of departure to generate individual training plans.

| 5970 Career Progression Model | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DSMO | | | | | | | | |
| MACCS WO | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| WEEKS* | | | | MONTHS* | | | | | | | | |
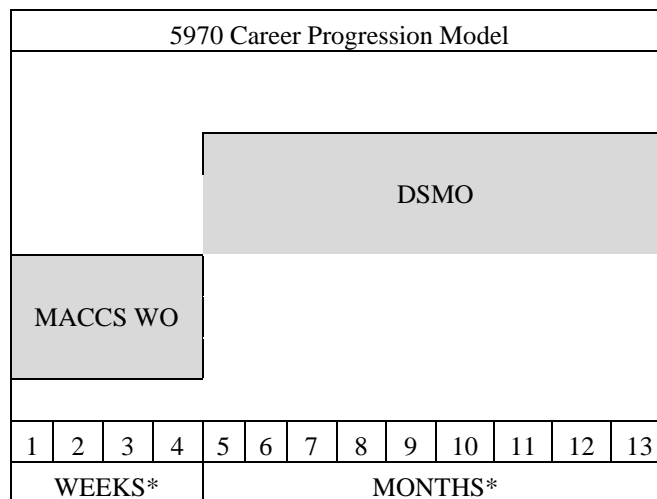
\* Months indicated are training months, not calendar
months.

5.2  <u>ABBREVIATIONS</u>

| DASC MAINTENANCE MOS 5970 | |
|---|---|
| **CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS** | |
| **CORE SKILL (2000 Phase)** | |
| SEC | SECURITY |
| FAM | FAMILIARIZATION |
| CANT | COMPUTER AND NETWORK TRAINING |
| CD | COLLATERAL DUTIES |
| MMGT | MAINTENANCE MANAGEMENT |
| DEPL | DEPLOYMENT |
| TDL | TACTICAL DATA LINKS |
| **MISSION SKILL (3000 Phase)** | |

| CANT | COMPUTER AND NETWORK TRAINING |
|------|-------------------------------|
| MMGT | MAINTENANCE MANAGEMENT |
| DEPL | DEPLOYMENT |
| **CORE PLUS (4000 Phase)** | |
| TDL | TACTICAL DATA LINKS |
| **INSTRUCTOR (5000 Phase)** | |
| BI | BASIC INSTRUCTOR |
| SI | SENIOR INSTRUCTOR |
| WTI | WEAPONS AND TACTICS INSTRUCTOR |
| **CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)** | |
| DESG | DESIGNATIONS |
| QUAL | QUALIFICATIONS |

5.3 <u>DEFINITIONS</u>

| TERM | DEFINITION |
|------|------------|
| **Core Model** | The Core Model is the basic foundation or standardized format by which all T&Rs are constructed. The Core model provides the capability of quantifying both unit and individual training requirements and measuring readiness. This is accomplished by linking community Mission Statements, Mission Essential Task Lists, Output Standards, Core Skill Proficiency Requirements and Combat Leadership Matrices |
| **Core Skill** | Fundamental, environmental, or conditional capabilities required to perform basic functions. These basic functions serve as tactical enablers that allow crews to progress to the more complex Mission Skills. Primarily 2000 Phase events but may be introduced in the 1000 Phase. |
| **Mission Skill** | Mission Skills enable a unit to execute a specific MET. They are comprised of advanced event(s) that are focused on MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness developed during Core Skill training. 3000 Phase events. |
| **Core Plus Skill** | Training events that can be theater specific or that have a low likelihood of occurrence. They may be Fundamental, environmental, or conditional capabilities required to perform basic functions. 4000 Phase events. |
| **Core Plus Mission** | Training events that can be theater specific or that have a low likelihood of occurrence. They are comprised of advanced event(s) that are focused on Core Plus MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness. 4000 Phase events. |
| **Core Skill Proficiency (CSP)** | CSP is a measure of training completion for 2000 Phase events. CSP is attained by executing all events listed in the Attain Table for each Core Skill. The individual must be simultaneously proficient in all events within that Core Skill to attain CSP. |
| **Mission Skill Proficiency (MSP)** | MSP is a measure of training completion for 3000 Phase events. MSP is attained by executing all events listed in the Attain Table for each Mission Skill. The individual must be simultaneously proficient in all events within that Mission Skill to attain MSP. MSP is directly related to Training Readiness. |
| **Core Plus Skill Proficiency (CPSP)** | CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP |
| **Core Plus Mission Proficiency (CPMP)** | CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP |
| **MET Phase** | This Phase represents community specific unit METs. It combines CMMR crew proficient Marines, Combat Leaders, and designated non-aviation PMOS Marines into combat capable teams. |

5.4  INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

5.4.1  Management of individual CSP/MSP/CPSP/CPMP serves as the foundation for developing proficiency requirements in DRRS.

5.4.2  Individual CSP is a "Yes/No" status assigned to an individual by Core Skill.  When an individual attains and maintains CSP in a Core Skill, the individual counts towards CMMR Unit CSP requirements for that Core Skill.

5.4.3  Proficiency is attained by individual Core/Mission/Core Plus skill where the training events for each skill are determined by POI assignment.

5.4.4       Once proficiency has been attained by Core/Mission/Core Plus Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the maintain table and in the "Maintain POI" column of the T&R syllabus matrix.  An individual maintains proficiency by individual Core/Mission/Core Plus Skill.

**\*Note\***
Individuals may be attaining proficiency in some
Core/Mission/Core Plus Skills while maintaining proficiency
in other Core/Mission/Core Plus Skills.

5.4.5       Once proficiency has been attained, should one lose proficiency in an event in the "Maintain POI" column, proficiency can be re-attained by demonstrating proficiency in the delinquent event.  Should an individual lose proficiency in all events in the "Maintain POI" column by Core/Mission/Core Plus Skill, the individual will be assigned to the Refresher POI for that Skill.  To regain proficiency for that Core/Mission/Core Plus Skill the individual must demonstrate proficiency in all R-coded events for that Skill.

**\*Note\***
See Chapter 2 for amplifying information on POI updating.

| DASC MAINTENANCE MOS 5970 | | | | | |
|---|---|---|---|---|---|
| ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI | | | | | |
| ATTAIN PROFICIENCY | | | | MAINTAIN | |
| BASIC POI | | REFRESHER POI | | PROFICIENCY | |
| STAGE | CODE | STAGE | CODE | STAGE | CODE |
| CORE SKILL (2000 Phase) | | | | | |
| SEC | 2000R | SEC | 2000R | SEC | 2000R |
|  | 2002R |  | 2002R |  | 2002R |
|  | 2003R |  | 2003R |  | 2003R |
|  | 2004R |  | 2004R |  | 2004R |
|  | 2005R |  | 2005R |  |  |
|  | 2006 |  |  |  |  |
|  | 2007 |  |  |  |  |
| FAM | 2020R | FAM | 2020R | FAM | 2020R |
|  | 2021 |  |  |  |  |
|  | 2022 |  |  |  |  |
|  | 2023 |  |  |  |  |
| CANT | 2040R | CANT | 2040R | CANT | 2040R |
|  | 2042R |  | 2142R |  | 2042R |

| | | | | | |
|---|---|---|---|---|---|
| | 2043R | | 2043R | | 2043R |
| | 2044R | | 2044R | | 2044R |
| | 2045R | | 2045R | | 2045R |
| | 2046R | | 2046R | | 2046R |
| CD | 2060 | CD | | CD | |
| | 2061 | | | | |
| | 2062 | | | | |
| | 2063 | | | | |
| | 2064 | | | | |
| | 2065 | | | | |
| | 2066 | | | | |
| | 2067R | | 2067R | | |
| | 2068 | | | | |
| MMGT | 2100 | MMGT | | MMGT | |
| | 2101 | | | | |
| | 2102 | | | | |
| | 2103 | | | | |
| | 2104 | | | | |
| | 2105 | | | | |
| | 2106 | | | | |
| | 2107R | | 2285R | | |
| | 2108 | | | | |
| | 2110R | | 2295R | | |
| | 2111 | | | | |
| | 2112 | | | | |
| | 2113 | | | | |
| | 2114 | | | | |
| | 2115 | | | | |
| | 2116 | | | | |
| | 2117 | | | | |
| | 2118 | | | | |
| DEPL | 2130R | DEPL | 2130R | DEPL | |
| | 2131 | | | | |
| | 2132 | | | | |
| | 2133R | | 2133R | | |
| | 2134 | | | | |
| | 2135R | | 2135R | | 2135R |
| | 2136 | | | | |
| | 2137 | | | | |
| | 2138 | | | | |
| | 2139 | | | | |

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|---|---|---|---|---|---|
| | 2140R | | 2140R | | 2140R |
| | 2141 | | | | |
| | 2142 | | | | |
| | 2143R | | 2143R | | 2143R |
| | 2144 | | | | |
| TDL | 2800R | TDL | 2800R | TDL | 2800R |
| | 2801R | | 2801R | | 2801R |
| | 2802R | | 2802R | | 2802R |
| | 2803R | | 2803R | | 2803R |
| | 2805R | | 2805R | | 2805R |
| | 2806R | | 2806R | | 2806R |
| | 2808 | | | | |
| | 2809R | | 2809R | | |
| | 2815 | | | | |
| | 2816 | | | | |
| | 2818 | | | | |
| | 2819 | | | | |
| | 2823 | | | | |
| | 2826 | | | | |
| MISSION SKILL (3000 Phase) | | | | | |
| STAGE | CODE | STAGE | CODE | STAGE | CODE |
| CANT | 3000R | CANT | 3000R | CANT | 3000R |
| | 3003R | | 3003R | | 3003R |
| MMGT | 3020R | MMGT | 3020R | MMGT | 3020R |
| | 3022 | | | | |
| | 3023R | | 3023R | | 3023R |
| | 3024R | | 3024 | | 3024R |
| DEPL | 3040R | DEPL | 3040R | DEPL | 3040R |
| | 3041R | | 3041R | | 3041R |
| | 3042R | | 3042R | | 3042R |
| | 3043R | | 3043R | | 3043R |
| | 3044R | | 3044R | | 3044R |
| | 3045R | | 3045R | | 3045R |
| | 3046R | | 3046R | | 3046R |
| | 3047R | | 3047R | | 3047R |
| | 3048R | | 3048R | | 3048R |
| CORE PLUS (4000 Phase) | | | | | |
| STAGE | CODE | STAGE | CODE | STAGE | CODE |
| | 4820 | | | | |
| | 4821 | | | | |

| 4824 | | |
|------|--|--|
| 4825 | | |
| 4844 | | |
| 4845 | | |
| 4849 | | |
| 4850 | | |
| 4851 | | |
| 4852 | | |
| 4853 | | |
| 4854 | | |
| 4855 | | |
| "S" PREFIX AND BLUE FONT = SIMULATOR EVENT | | |
| "R" SUFFIX AND GREY HIGHLIGHT = R-CODED "REFRESHER" EVENT | | |

5.5 REQUIREMENT, CERTIFICATION, QUALIFICATION AND DESIGNATION TABLES. The tables below delineate T&R events required to be completed to attain proficiency for select certifications, qualifications and designations. In addition to event requirements, all required stage lectures, briefs, squadron training, prerequisites, and other criteria shall be completed prior to completing final events. Certification, qualification and designation letters signed by the commanding officer shall be placed in training Performance Records and NATOPS. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

5.5.1 INSTRUCTOR DESIGNATIONS

| DASC MAINTENANCE MOS 5970 INSTRUCTOR DESIGNATIONS (5000 Phase) | |
|---|---|
| **INSTRUCTOR DESIGNATION** | **EVENTS** |
| BASIC INSTRUCTOR (BI) | 5000, 5010, 5020 |
| SENIOR INSTRUCTOR (SI) | 5000, 5010, 5020, 5100, 5110, 5120, 5130 |
| WEAPONS AND TACTICS INSTRUCTOR (WTI) | 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 6000, 6306, 8000, 8020, 8040, 8060, 8080 |

5.5.2 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

| DASC MAINTENANCE MOS 5970 | |
|---|---|
| DASC MAINTENANCE MOS 5970 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase) | |
| **RCQD** | **EVENTS** |
| INFORMATION ASSURANCE TECHNICIAN LEVEL I (IAT I) (DESG 6250) | |
| INFORMATION ASSURANCE TECHNICIAN LEVEL II | |

| | |
|---|---|
| (IAT II) (DESG 6251) | |
| INFORMATION ASSURANCE MANAGER LEVEL I (IAT I) (DESG 6253) | |
| BASIC INSTRUCTOR (BI) (DESG 6320) | 5000, 5010, 5020, 6320 |
| SENIOR INSTRUCTOR (SI) (DESG 6321) | 5000, 5010, 5020, 5100, 5110, 5120, 5130 |
| WEAPONS AND TACTICS INSTRUCTOR (DESG 6322) | 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2219, 2220, 2221, 2222, 2223, 2436, 2437, 2438, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3454, 3660, 3661, 3662, 3716, 3718, 6000, 6306, 8000, 8020, 8040, 8060, 8080 |
| DATA SYSTEMS MAINTENANCE OFFICER (DESG 6520) | 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2022, 2023, 2040, 2042, 2043, 2044, 2045, 2046, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2800, 2801, 2802, 2803, 2805, 2806, 2808, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 3000, 3003, 3020, 3022, 3023, 3024, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 8000, 8020, 8040, 8060, 8080 |

5.6  5970 PROGRAMS OF INSTRUCTION (POI).  These tables reflect average time-to-train versus the minimum to maximum time-to-train parameters in the Training Progression Model.

5.6.1  Basic POI

| DASC MAINTENANCE 5970 | | |
|---|---|---|
| BASIC POI | | |
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |
| 0-4 | CORE SKILL INTRODUCTION TRAINING | MCCES |
| 5-10 | CORE SKILL TRAINING | TACTICAL SQUADRON |
| 11-15 | MISSION SKILL TRAINING | TACTICAL SQUADRON |

5.6.2  Refresher POI

| DASC MAINTENANCE MOS 5970 | | |
|---|---|---|
| REFRESHER POI | | |
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |
| VARIES | CORE SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | CORE PLUS | TACTICAL SQUADRON |

NOTE 1:  TRAINING DURATIONS VARIES BY POSITION BEING TRAINED.  SEE PROGRESSION MODEL FOR NOTIONAL TRAINING TIMES.

5.7 SYLLABUS NOTES

5.7.1 Environmental Conditions Matrix

| Environmental Conditions | |
|---|---|
| **Code** | **Meaning** |
| D | Shall be conducted during hours of daylight: (by exception - there is no use of a symbol) |
| N | Shall be conducted during hours of darkness, may be aided or unaided |
| N* | Shall be conducted during hours of darkness must be unaided |
| (N*) | May be conducted during hours of darkness – If conducted during hours of darkness must be unaided |
| (N) | May be conducted during darkness – If conducted during hours of darkness; may be aided or unaided |
| NS | Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices |
| (NS) | May be conducted during darkness – If conducted during hours of darkness; must be with Night Vision Devices |
| Note – If the event is to be conducted in the simulator, the Instructor shall ensure the proper environmental conditions for the event. | |

5.7.2 Device Matrix

| DEVICE | |
|---|---|
| **Symbol** | **Meaning** |
| L | Event shall be conducted live (conducted in the field/garrison, during an exercise, etc). Requires live (non-simulated) execution of the event. |
| L/S | Event performed live preferred/simulator optional. |
| S/L | Event performed in simulator preferred/live optional. |
| G | Ground/academic training. May include Distance Learning, CBT, lectures, self paced. |
| CBT | Computer Based Training |
| LAB | Laboratory |
| LEC | Lecture |
| CP | Command Post |
| TEN | Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station. |
| TEN+ | Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement. |
| Note – If the event is to be flown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event. | |

5.7.3 Program of Instruction Matrix

| PROGRAM OF INSTRUCTION MATRIX | | |
|---|---|---|
| **Program of Instruction (POI)** | **Symbol** | **Aviation Ground** |
| Basic | **B** | Initial MOS Training |
| Refresher | **R** | Return to community from non (MOS/Skill) associated tour |
| Maintain | **M** | All individuals who have attained CSP/MSP/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency. |

5.7.4 Event Terms

| EVENT TERMS | |
|---|---|
| **TERM** | **DESCRIPTION** |
| Discuss | An explanation of systems, procedures, or tactics during the brief, exercise, or debrief. Student is responsible for knowledge of procedures. |
| Demonstrate | The description and performance of a particular event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required event. |
| Introduce | The instructor may demonstrate a procedure or event to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures. |
| Practice | The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance. |
| Review | Demonstrated proficiency of an event by the student. |
| Evaluate | Any event designed to evaluate team/crew standardization that does not fit another category. |
| E-Coded | This term means an event evaluation form is required each time the event is logged. Requires evaluation by a certified standardization instructor (NATOPS I, WTI, INST Evaluator etc.) |

5.8 ACADEMIC PHASE (0000)

5.8.1 Purpose. **RESERVED FOR FUTURE USE**

5.8.2 General

5.8.2.1 Admin Notes.

5.8.2.2 Prerequisites.

5.8.2.3 Stages.

5.9 CORE SKILL INTRODUCTION PHASE (1000)

5.9.1 Purpose. To provide entry level instruction to develop the basic skills necessary to become a MOS 5970 Data Systems Maintenance Officer. This training is completed upon graduation from the MACCS Maintenance Warrant Officer Course.

5.9.2 General.

5.9.2.1 Prerequisite. Meet the requirement delineated in the MOS Manual (MCBul 1200).

5.9.2.2 Admin Notes. None

5.9.2.3 Stages. The following stages are included in the Core Skill Introduction Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 5.9.3 | AIR SCHOOLS (AIRS) STAGE |

5.9.3  AIR SCHOOLS (AIRS) STAGE

5.9.3.1  Purpose.  To train Aviation Radar Maintenance Officer and Data System Maintenance Officers in core skill introduction phase training events.

5.9.3.2  General

Prerequisite.  MOS 5910 or 5970.

Admin Notes.  Hours are not utilized in the header information for each of the blocks of training provided by MCCES.  MACCS Warrant Officer Course (CID: M099681), MCCES, located in 29 Palms, CA.

Crew Requirements.  None.

MWO-1002                    *            B

Goal.  Conduct an inspection of maintenance functional areas.

Requirement.  Given required references and a current inspection checklist, demonstrate the procedures for inspecting the following functional areas:

1.  State the purpose for inspecting the functional areas.
2.  Identify and review the references for each functional area and obtain applicable and current inspection lists for all.
3.  Conduct an inspection of all areas to familiarize the trainee with the specifics of each.
   a.  Calibration Control Program.
   b.  Publication Control Program.
   c.  Quality Assurance Program.
   d.  Preventive Maintenance Program.
   e.  Modification Control Program.
   f.  Tool Control Program.
   g.  GCSS-MC
   h.  Training Program.
   i.  Records.
   j.  Safety Program.
   k.  Corrosion Prevention and Control CPAC.
4.  Explain the inspection procedures.
   a.  Schedule the inspection.
   b.  Inform functional area manager.
   c.  Turn over folders are IAW the references.
   d.  Submit an executive summary at the conclusion of the inspection.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  FSMAO Checklist
2.  MMSOP

MWO-1003                    *            B

Goal.  Identify the key elements of Operational Orders (OPORD).

Requirement.  Given an OPORD, identify those key elements pertaining to the unit's communications requirements, perform the following:

1.  Identify the purpose and major sections of the OPORD.
2.  State the purpose and content of the Annex K.
   a.  State the purpose and content of the OPTASKLINK.
   b.  State the purpose and content of an EKMS Callout.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 5-1

MWO-1004                    *            B

Goal.  Reconcile Global Combat Support Systems-Marine Corps (GCSS-MC) automated reports.

Requirement.  Given the reports listed in item 1 below:
1.  Identify the purpose of:
   a.  Maintenance Production Report (MPR). b.
   Equipment Status Report (ESR).
   c.  Preventative Maintenance (PM) Report.
   d.  Calibration Report.
   e.  Modification IReport.
   f.   Sub-Inventory Report.
   g.  Maintenance Management Report (MMR). h.
   Due and Status File (DASF) Report.
   i.   Mechanized Allowance List (MAL) Report.
   j.   Inspection repair tag (NAVMC 1018)
2.  Identify the type of information contained in each of the forms listed above.

3. Identify the status of a parts requisition.
4. Identify proper use of Uniform Material Movement and Issue Priority System (UMMIPS) priorities.
5. State item requisition priorities.
6. State any errors found within each of the forms listed above.
7. Reconcile all items listed above and list all errors found in each form.
8. Explain how to maintain a layette bin.

Performance Standard.  Given the GCSS-MC automated reports, reconcile these reports to pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

MWO-1005           *       B

Goal.  Identify the services provided by Marine Wing Communications Squadron.

Requirement.  Given the references, describe the following services:

1. Single Channel Radio Communications.
2. Wide Area Networks (WAN) / Local Area Networks (LAN) Communications.
3. Electronic Message Communications.
4. Telephone Communications.
5. Digital Backbone.
6. Communications Control.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCWP 3-40.3
2. MCWP 3-25 Control of Aircraft and Missiles

MWO-1006           *       B

Goal.  Identify cyber security requirements for tactical employment of information systems.

Requirement.  Given the reference, perform the following:

1. Identify the Accreditation package requirements.
2. Explain the purpose of the Authority to Operate (ATO).
3. Explain configuration management and its relationship to cyber security.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. DOD Directive 5200.28
2. DOD Directive 5200.40
3. MCO 5239.2A
4. DoD 8570.01-M

MWO-1007                    *          B

Goal.  Identify TAOC and EW/C communications information exchange requirements.

Requirement.  Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCRP 5-12D
2. Unit Core METL
3. MCBUL 3000
4. MCWP 3-25.7
5. MCWP 3-25.8
6. MCWP 3-25

MWO-1008                    *          B

Goal.  Identify TACC Communications information exchange requirements.

Requirement.  Given the references, perform the following:

1. Data systems.

2.  Radio systems.
3.  Data link systems.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D
2.  MCWP 3-25.4
3.  Unit Core METL
4.  MCBUL 3000


MWO-1009                *           B

Goal.  Identify DASC communications information exchange requirements.

Requirement.  Given the references, perform the following:

1.  Data systems.
2.  Radio systems.
3.  Data link systems.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D
2.  Unit Core METL
3.  MCBUL 3000
4.  MCWP 3-25.5
5.  MCWP 3-25


MWO-1010                *           B

Goal.  Analyze the TO/E.

Requirement. Given a TO/E, explain the following:

1. Mission statement.
2. Billet Organization.
3. Equipment Organization.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. URL https://tfsms.mccdc.usmc.mil
2. MCO 5311.1


MWO-1011 * B

Goal. Identify spectrum management procedures.

Requirement. Given the references and a scenario with operational requirements, perform the following:

1. Submit frequency requirements.
   a. Identify submission timelines.
   b. Identify data elements (-Freq, Location, Power, Dates).
2. Submit Satellite Access requirements.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 3-40
2. MCO 2400.2


MWO-1012 * B

Goal. Identify the embarkation requirements for the major end items of the TACC, DASC, TAOC, and EW/C.

Requirement.  Given the reference, list:

1. Hazardous Material requirements.
2. Security requirements.
3. Material Handling Equipment requirements.
4. Equipment specific transportation requirements.
5. Identify MAGTF Deployment Support System II (MDSS II) elements.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4030.33
2. MCRP 4-11C


MWO-1013                    *           B

Goal.  Identify LAAD Communications information exchange requirements.

Requirement.  Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCWP 3-25.10
2. MCWP 3-25
3. Unit Core METL
4. MCBUL 3000


MWO-1014                    *           B

Goal. Identify MATC communications information exchange requirements.

Requirement. Given the references, perform the following:

1. Data systems.
2. Radio systems.
3. Data link systems.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-25
2. MCWP 3-25.8
3. Unit Core METL
4. MCBUL 3000

MWO-1016            *        B

Goal. Identify the Marine Corps Urgent Needs Process (MCUNP).

Requirement. Given the references and an equipment requirement, identify the process for submission and complete the MCUNP form.
1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Describe the process of completing an Urgent UNS form.
5. Describe the process of completing a deliberate UNS form.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1.  NAVMC 11475
2.  MCO 3900.17


MWO-1017            *        B

Goal.  Validate induction of new equipment into service.

Requirement.  Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and validate the induction of new equipment into service.
1.  Review the Users Logistics Support Summary (ULSS) or Material Fielding Plan (MFP).
2.  Validate new equipment is properly placed into service.
    a.  Ensure record jacket was created with proper documentation IAW the reference.
    b.  Ensure initial SL-3 was performed.
    c.  Ensure an initial LTI was performed.
    d.  Ensure induction of new equipment into calibration cycle a required.
    e.  Ensure equipment is accounted for within EKMS as required.
    f.  Ensure the equipment and proper documentation was sent to Supply.
    g.  Ensure supply received the proper documentation to add equipment to the CMR.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Supply Instruction (SI)
2.  ULSS
3.  Equipment SL-3
4.  Initial Issuing Provision Inventories
8.  UM 4000-125 GCSS User's Manual
9.  MMSOP
5.  MCO P4790.2
6.  MCO 4400.150


MWO-1018            *        B

Goal.  Demonstrate the process to phase out obsolete equipment.

Requirement.  Given a Phase out Plan (POP) and applicable references, demonstrate and validate phase out of obsolete equipment, to include at minimum:

1.  Review the POP and applicable references.
2.  State the purpose of:
    a.  Equipment disposition (Formlery WIR).
    b.  Requesting equipment disposition in GCSS-MC.
    c.  Material Returns (MTR) program.

3.  Validate obsolete equipment was disposed of properly by ensuring the following:
    a.  Ensure a final LTI was performed.
    b.  Ensure a final SL-3 was performed.
    c.  Ensure equipment disposition request was submitted via GCSS-MC
    d.  Ensure equipment was disposed of IAW instructions in Phase out plan.
    e.  Ensure the record jackets were completed and accompanied equipment.
    f.  Ensure the equipment and proper documentation was sent to Supply for turn-in.
    g.  Ensure supply received the proper documentation to remove equipment from the CMR.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
3.  Supply Instruction (SI)
4.  Equipment SL-3
5.  Initial Issuing Provision Inventories
6.  MCO P4400.82
1.  UM 4000-125 GCSS User's Manual
2.  MMSOP
7.  MCO P4790.2
8.  MCO 4400.150


MWO-1019                    *          B


Goal.  Identify maintenance funding requirements.

Requirement.  Given a scenario, equipment maintenance history and anticipated maintenance shortfalls, propose funding allocations for maintenance activities to create a maintenance budget.
1.  Identify and prioritize funding requirements.
2.  Provide a maintenance funding request based on requirement and prior year utilization.
3.  Provide an anticipated maintenance funding request based on the unit's TEEP.
4.  Submit a budget request to the instructor for validation.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4400.150
2. MCO 7300.21


MWO-1020        *       B

Goal. Identify the SECREP management process.

Requirement. Given a practical application scenario, applicable maintenance and supply history documents, review and provide recommendations for organizational Critical Low Density SECREP (CLD) assets and required on-hand quantities:

1. Define the purpose of the SECREP management process.
2. Define the purpose of Critical Low Density SECREP exchange process.
3. Identify the key components of the SECREP exchange process.
4. Identify the key documentation within each component of the SECREP exchange process.
5. Identify the SECREP management re-computation process.
6. Identify Low Density SECREP assets.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. MCO 4400.150
3. FEDLOG
4. MCO P4400.82F
5. MCO P4400.151B
6. UM 4000-125 GCSS User's Manual
7. MMSOP


MWO-1021        *       B

Goal. Identify DOD cyber security workforce structure.

Requirement. Given the reference, identify:

1. The cyber security categories.
2. Requirements for cyber security categories.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DOD 8570.01-M


MWO-1022                    *           B

Goal.  Access published information within TFSMS.

Requirement.  Given access to TFSMS, complete the following:

1.  Access unit TO/E.
2.  Access standard reports.
3.  Create custom reports.
4.  Manage custom reports.

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. URL https://tfsms.mccdc.usmc.mil
2. MCO 5311.1


MWO-1023                    *           B

Goal.  Describe readiness ratings within DRRS-MC.

Requirement.  IAW the reference, describe the following:

1.  Describe P-rating.
2.  Describe S-rating.
3.  Describe R-rating.
4.  Describe T-rating.
5.  Describe C-level assessment.
6.  Identify how the Commander will assess their METs.
   a.  Trained
   b.  Qualified
   c.  Not Observed

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 3500.14C
2. MCO 3000.13 MARINE CORPS READINESS REPORTING STANDARD OPERATING PROCEDURES (SOP)
3. MCO 3000.11E


MWO-1024         *      B

Goal. Explain the product quality deficiency report (PQDR).

Requirement. Given the reference, an item of equipment or a scenario, identify the following:

1. Purpose of the PQDR.
2. Criteria under which a PQDR should be submitted.
3. Information required for submitting a PQDR.

Performance Standard. Pass an exam.

Instructor. FLC instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. UM 4400.125
3. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4. SECNAVINST 4855.5, Product Quality Deficiency Report Program
5. http://www.logcom.usmc.mil/pqdr/files/PQDR%20Users%20Guide.pdf


MWO-1025         *      B

Goal. Identify major funding lines.

Requirement. Given the references, identify major funding lines:

1. Operation & Maintenance (O&M) Funds.

    a.  Planning Estimate (PE).
      (1)  Direct Support Stock Center (DSSC).
      (2)  Temporary Additional Duty.
      (3)  Fuel.
      (4)  Government-Wide Commercial Purchase Card Program (GCPC).
    b.  Requisition Authority (RA) – Supported Activities Supply System (SASSY).
2.  Research, Development, Test & Evaluation (RDT&E).
3.  Procurement Marine Corps (PMC).
4.  Military Construction (MILCON).
5.  Blue Dollars (2F Funds).

Performance Standard.  Pass an exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  MCO 7300.21


MWO-1026              *          B

Goal.  State the duties of a CMR responsible officer.

Requirement.  IAW the reference and given a maintenance section's CMR, ensure equipment accountability and requirements by performing the following:

1.  State the purpose of a CMR.
2.  Review TE.
3.  Describe the process of the CMR inventory.
    a.  Ensure SL-3 accountability for assumption and relief.
    b.  Determine UURI requirements.
    c.  Ensure equipment have record jackets.
    d.  Identify discrepancies, if any.
4.  State the purpose for the letter of RFI.
5.  State the purpose of the delegation of authority.
6.  State the purpose of the Responsible Individual (RI).
7.  State the purpose for maintaining source documents.

Performance Standard.  Pass an Exam.

Instructor.  FLC instructor

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4400.150
2. CMR
3. MMSOP
4. MCO P4790.2
5. UM 4000.125

5.10  CORE SKILL TRAINING (2000)

5.10.1  Purpose.  To develop core skill proficiency for 5970 personnel to be able to perform duties while assigned as the DSMO.

5.10.2  General.

5.10.2.1  Prerequisite.

5.10.2.2  Admin Notes.

    (1) Training in this phase does not preclude simultaneous training in the mission skill and core plus phases provided applicable prerequisites have been met.

    (2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

5.10.2.3  Stages.  The following stages are included in the Core Skill Introduction Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 5.10.3  | SECURITY (SEC) |
| 5.10.4  | FAMILIARIZATION (FAM) |
| 5.10.5  | COMPUTER AND NETWORK TRAINING (CANT) |
| 5.10.6  | COLLATERAL DUTIES (CD) |
| 5.10.7  | MAINTENANCE MANAGEMENT (MMGT) |
| 5.10.8  | DEPLOYMENT |
| 5.10.9  | MAINTENANCE MANAGEMENT (MMGT) |
| 5.10.10 | TACTICAL DATA LINKS |

5.10.3  SECURITY (SEC) STAGE

5.10.3.1  Purpose.  To teach the trainee safe handling and storage of classified material, use of common fill devices, crew changeover procedures, and provide familiarization with the EKMS COMSEC callout.  Additionally, trainee learns to identify and load CCI devices.

5.10.3.2  General

    Prerequisite.  None

    Admin Notes.  None

Crew Requirements.  None

SEC-2000        2.0       365     B,R,M                                                           L

Goal.  Describe proper handling and storage of classified materials.

Requirement.  Perform the following:

1.  State the different levels of classification.
2.  State the marking requirements for each level of classification.
3.  State the Two-Person Integrity (TPI) rule.
4.  State storage procedures for each level of classification.
5.  Identify transportation requirements for classified material.
5.  State the sections of the SF-702.
7.  Identify the approved security containers utilized for storage.
8.  Identify the procedures for handling Controlled Cryptographic Items (CCIs).

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  SECNAV M-5510.36
2.  MCO 5530.14
3.  EKMS-1_ (KMI)
4.  Unit SOP

SEC-2002        2.0       1095    B,R,M                                                           L

Goal.  State the physical security requirements for classified areas.

Requirement.  Given a tactical scenario and references, identify the following:

1.  Purpose of a guard schedule.
2.  Purpose of access control.
3.  Purpose of the entry control point.
4.  Perimeter barrier requirements.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 5530.14_
2. SECNAV M-5510.36


SEC-2003        2.0        1095      B,R,M                                                    L

Goal. Extract key material information from EKMS/KMI COMSEC callout.

Requirement. Given an EKMS/KMI COMSEC callout and references, perform the following:

1. State the purpose of the EKMS/KMI COMSEC callout.
2. Identify the five main pieces of key information:
    a. Short Title.
    b. Edition.
    c. Segment.
    d. Classification.
    e. Supersession date.
3. Identify segment roll over dates and time.
4. Identify short titles applicable to specific implementations within the unit

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EKMS-1 (KMI)
2. MCWP 3-40.3
3. CMR


SEC-2004        2.0        1095      B,R,M                                                    L

Goal. Create a classified area physical security diagram.

Requirement. Given a tactical scenario and references, create a diagram that includes the following:

1. Entry control point(s).
2. Perimeter barrier.

3.  Communication lines.
4.  Storage area locations

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000, 2002

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 5530.14
2.  SECNAV M-5510.36

SEC-2005        3.0        *        B,R                                                                L

Goal.  Ensure classified material handling procedures are followed.

Requirement.  Given the references, perform the following:

1.  Verify classified material is stored.
2.  Verify required Standard Forms are completed.
3.  Verify classified material is transported.
4.  Verify CCI is stored IAW the reference

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  SECNAV M-5510.36
2.  MCO 5530.14
3.  Unit SOP

SEC-2006        4.0        *        B                                                                L

Goal.  Identify Cryptographic Controlled Item (CCI) devices organic to the section.

Requirement.  Perform the Following:

1.  Inventory all CCI on the SF-153.
2.  State the purpose of each piece of equipment.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2000

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manual
2.  CMR


SEC-2007        4.0      *         B                                                         L

Goal.  Validate physical security of classified areas.

Requirement.  Given a scenario and references, validate physical security requirements of classified areas. Validate the following:

1.  Guard schedule.
2.  Entry control point.
3.  Access Roster.
4.  Perimeter.
5.  Physical security diagram.
5.  Validate the security plan for organic material

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2002, 2004

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
2.  MCO 5530.14
1.  SECNAV M-5510.36
3.  Unit's Emergency Action Plan


5.10.4  FAMILIARIZATION (FAM) STAGE

5.10.4.1 <u>Purpose</u>.  To familiarize the trainee on non-MOS equipment.

5.10.4.2 <u>General</u>

      <u>Prerequisite</u>.  None

      <u>Admin Notes</u>.  None

      <u>Crew Requirements</u>.  None

FAM-2022     2.0     *      B                                                L

      <u>Goal.</u>  Describe the characteristics of unit T/E generators.

      <u>Requirement.</u>  Identify the following:
        1.  Frequency.
        2.  Voltage(s).
        3.  Load capacity.
        4.  Fuel consumption.

      <u>Performance Standard.</u>  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

      <u>Instructor.</u>  BI

      <u>Prerequisite.</u>  None

      <u>Ordnance.</u>  None

      <u>Range.</u>  None

      <u>External Syllabus Support.</u>  None

      <u>Reference.</u>
      1.  Technical Manuals
      2.  http://www.marcorsyscom.marines.mil/ProgramOffices/EPSHome/MobileElectricPower.aspx

FAM-2023     1.0     *      B                                                L

      <u>Goal.</u>  Describe TACLANE.

      <u>Requirement.</u>  Given the references, perform the following:

      1.  Describe the purpose of the TACLANE
      2.  Identify different TACLANE models

      <u>Performance Standard.</u>  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

      <u>Instructor.</u>  BI

      <u>Prerequisite.</u>  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 11-5810-422-13 (KG-175D)


3.10.5  COMPUTER AND NETWORK TRAINING  (CANT) STAGE

3.10.5.1  Purpose.  To provide core skills in computing and networking that will be used in the performance of assigned duties within the Marine Air Command and Control System (MACCS).

3.10.5.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.


CANT-2040      4.0      1095      B,R,M                                                    E                    L

Goal.  Explain application, data, and host security.

Requirement.  With the aid of reference, perform the following:

1.  Explain the importance of application security.
2.  Explain the appropriate procedures to establish host security.
3.  Explain the importance of data security.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2042      4.0      1095      B,R,M                                                    E                    L

Goal. Explain Network Security.

Requirement. With the aid of references, perform the following:

1. Explain the methods of network access security.
2. Explain methods of user authentication.
3. Explain common threats, vulnerabilities, and mitigation techniques.
4. Describe the purpose of a basic firewall.
5. Categorize different types of network security devices and methods.
7. Describe the implementation of secure network administration principles.
8. Describe between network design elements and components.
9. Identify commonly used default network ports.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

CANT-2043     4.0     1095     B,R,M                          E                 L

Goal. Explain Network Operational Security.

Requirement. With the aid of reference, perform the following:

1. Explain risk related concepts.
2. Explain appropriate risk mitigation strategies.
3. Explain appropriate incident response procedures.
4. Explain the importance of security related awareness and training.
5. Compare aspects of business continuity.
5. Explain the impact and proper use of environmental controls.
7. Explain the concepts of confidentiality, integrity and availability (CIA).

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2044      4.0       1095     B,R,M                                    E                  L

Goal.  Explain threats and vulnerabilities.

Requirement.  With the aid of reference, perform the following:

1.  Explain the types of malware.
2.  Explain types of attacks.
3.  Explain types of application attacks.
4.  Explain types of mitigation and deterrent techniques.
5.  Explain assessment tools and techniques to discover security threats and vulnerabilities.
5.  Within the realm of vulnerability assessments, explain the proper use of penetration testing versus vulnerability scanning.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2045      4.0       1095     B,R,M                                    E                  L

Goal.  Explain computer and network cryptography.

Requirement.  With the aid of reference, perform the following:

1.  Summarize general cryptography concepts.
2.  Explain the appropriate cryptographic tools and products.
3.  Explain the core concepts of public key infrastructure.
4.  Explain the Implementation of PKI, certificate management and associated components.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


CANT-2046      4.0      1095      B,R,M                              E                    L

Goal.  Explain access control and identity management security measures

Requirement.  With the aid of reference, perform the following:

1.  Explain the function and purpose of authentication services.
2.  Explain the fundamental concepts and best practices related to authentication, authorization and access control.
3.  Explain the Implementation of appropriate security controls when performing account management.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CompTIA Approved Quality Content (CAQC) program reference material
2.  Applicable User's Manuals for specific network devices.
3.  Current industry-standard curriculum and references.


3.10.6  COLLATERAL DUTIES (CD) STAGE

3.10.5.1  Purpose.  To provide core skills on the duties and responsibilities of each collateral duty within a maintenance section.

3.10.5.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE

CD-2060          1.0       *       B                                                                                                   L

Goal.  Identify the Maintenance Calibrations Program.

Requirement.  State the following:

1.  Purpose of the billet
2.  Chapters/pages within the references which are applicable to the program
3.  Purpose of the FSMAO Checklist
   a.  Explain the purpose of each question within the Checklist
   b.  Identify the pages within the reference where more information can be found regarding the collateral duty

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H
4.  Associated Desktop/Turnover
5.  MMSOP
5.  FSMAO Checklist
7.  MCO 4400.160

CD-2061          2.0       *       B                                                                                                   L

Goal.  Identify the Maintenance Modifications Program.

Requirement.  State the following:

1.  Purpose of the billet
2.  Chapters/pages within the references which are applicable to the program
3.  Purpose of the FSMAO Checklist
   a.  Explain the purpose of each question within the Checklist
   b.  Identify the pages within the reference where more information can be found regarding the collateral duty

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Associated Desktop/Turnover
5. MMSOP
5. FSMAO Checklist
7. MCO 4400.160

CD-2062          2.0          *          B                                                          L

Goal. Manage the Tool Control Program.

Requirement. State the following:

1. Purpose of the billet
2. Chapters/pages within the references which are applicable to the program
3. Purpose of the FSMAO Checklist
   a. Explain the purpose of each question within the Checklist
   b. Identify the pages within the reference where more information can be found regarding the collateral duty

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover

    5. MMSOP
    5. FSMAO Checklist
    7. MCO 4400.160

CD-2063       2.0    *      B                                                          L

Goal.  Identify the Maintenance Publications Library.

Requirement.  State the following:

1. Purpose of the billet
2. Chapters/pages within the references which are applicable to the program
3. Processes required IAW unit SOP

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
5. FSMAO Checklist
7. MCO 4400.160

CD-2064       2.0    *      B                                                           L

Goal.  Identify major Maintenance Safety Program elements.

Requirement.  Given the references, perform the following:

1. Define and identify the purpose of Lock-out/Tag-out.
2. Demonstrate lock-out/tag-out procedures.
3. Eliminate the effects of ESD on electronic components.
   a. Define ESD.
   b. Setup ESD workstation.
   c. Demonstrate proper use of ESD workstation during repair of ESD sensitive circuit.
   d. Demonstrate proper packaging and handling of ESD sensitive material.
4. Describe hazard prevention as it applies to:
   a. Electrical hazards.
   b. Eye hazards.
   c. Hearing hazards.
   d. RF hazards.

    e. Fire hazards.
5. Identify HAZMAT procedures.
    a. Properly store and label HAZMAT materials.
    b. Demonstrate proper usage of Personal Protective Equipment (PPE).
    c. State the purpose of and locate and read safety board.
5. List the sections of an MSDS.
    a. Chemical identity.
    b. Manufactures name and contact information.
    c. Hazardous ingredients/identity information.
    d. Physical/chemical characteristics.
    e. Fire and explosion hazard data.
    f. Reactivity data.
    g. Health hazard data.
    h. Precautions for safe handling and use.
    i. Control measures.
7. State the purpose of the MSDS center.
8. Locate the MSDS compliance center in the maintenance department.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 5100.29
2. MCO 4450.12
3. MCO 5100.8
4. OSHA standard 29 CFR 1910.147
5. Electro Discharge Mgmt (ESD) TM-9999-15/2
5. MCO P4790.2
7. UM 4000-125 GCSS-MC User's Manual
8. TM-4700-15/1H
9. Desktop/Turnover
10. MMSOP
11. FSMAO Checklist
12. MCO 4400.160


CD-2065        3.0      *      B                                              L

Goal. Identify the key elements of the Maintenance Embarkation Program.

Requirement. Given the references, perform the following:

1. State the purpose of the maintenance embarkation program.
2. State the purpose of the equipment density list (EDL).
3. List length, width, height, and weight of major end items.

4. Identify ground equipment transportation requirements.
5. Identify Heavy Equipment (HE) requirements needed for systems movement.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCRP 4-11.3 Unit Embarkation Handbook
2. MCO P4790.2
3. Technical Manuals
4. Maintenance Embarkation Program Desktop
5. MMSOP
5. FSMAO Checklist
7. MCO 4400.160

CD-2066          1.0       *        B                                                                      L

Goal.  Identify the equipment record jacket.

Requirement.  Given the references and a record jacket, perform the following:

1. State the purpose of a record jacket.
2. State the minimum content requirements for an equipment record jacket.
3. State the destruction instructions for each document within the record jacket.
4. State the local policy for disposition of inactive record jackets.
5. Inspect the record jacket content for completeness.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover

5. MMSOP
5. FSMAO Checklist
7. MCO 4400.160

CD-2067      2.0     *     B,R                                           L

Goal.  Identify Quality Control Procedures.

Requirement.  Given the references and equipment records, perform the following:

1.  Identify maintenance QC procedures.
2.  List all the QC areas within your section.
3.  State the frequency of the QC checks for each area.
4.  Conduct a QC inspection on a selected piece of equipment:
   a.  Ensure equipment is being maintained to equipment standards.
   b.  Ensure quality controls are being adhered to.
   c.  Ensure inspection standards, checklists or templates being used to inspect completed maintenance actions.
   d.  Ensure equipment specifications are being recorded within tolerance levels IAW TM.
   e.  Verify the repair process is properly implemented by ensuring that:
     (1)  Proper tools were used.
     (2)  ESD procedures were used.
     (3)  Safety warnings were adhered to.
     (4)  Necessary defective parts were replaced.
     (5)  Correct software was used, as applicable.
     (6)  Proper GCSS entries are annotated on the Service Request throughout the Maintenance Cycle.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  UM 4000-125 GCSS-MC User's Manual
3.  TM-4700-15/1H
4.  Desktop/Turnover
5.  MMSOP
5.  FSMAO Checklist
7.  MCO 4400.160

CD-2068      2.0     *     B                                                L

Goal.  Identify the Maintenance Training program.

Requirement.  Given the references, perform the following:

1. Describe the purpose of the maintenance training program.
2. List requirements for maintenance training IAW MMSOP
3. Explain the purpose of the Aviation T&R program.
4. Explain how training is tracked
a. MSHARP
b. MACCS Performance Record (MPR)

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2100

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. UM 4000-125 GCSS-MC User's Manual
3. TM-4700-15/1H
4. Desktop/Turnover
5. MMSOP
5. NAVMC 3500.14C
7. T&R Manuals
8. FSMAO Checklist
9. MCO 4400.160


3.10.7  MAINTENANCE MANAGEMENT (MMGT) STAGE

3.10.7.1  Purpose.  To provide the core skills necessary to manage maintenance activities and administrative resonsibilities within the maintenance section.

3.10.7.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.


MMGT-2100      40        *        B                                                        G

Goal.  Complete Maintenance Management Program indoctrination training

Requirement.  Complete the following maintenance management program Indoctrination training:

1. Describe the eight functional areas of maintenance management
2. Define Desk-top procedure

3.  Define Turn-Over folder
4.  Identify Collateral Duties Required IAW MMSOP
5.  Identify the objectives of maintenance management program
5.  Identify maintenance management program references.
 a.  MMSOP
 b.  UM 4000-125 GCSS User's Manual
 c.  MCO P4790.2
 d.  MCO 4400.150
 e.  MCO P4400.16 UMMIPS
7.  Identify the responsibilities of maintenance management personnel.
 a.  Commanding Officer
 b. Maintenance Management Officer
 c. Maintenance Officer
 d. Supply Officer
 e. Maintenance Chief
 f.  Supply Clerks
 g.  Maintenance Management Office Clerks
 h. Maintenance Marines

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MMSOP
2.  MCO P4790.2
3.  MCO 4400.150
4.  MCO 4400.16 UMMIPS
5.  UM 4000-125 GCSS-MC User's Manual
5.  TM-4700-15/1H
8.  Desktop/Turnover
9.  FSMAO Checklist
7.  MCO 4400.160


MMGT-2101      2.0      *      B                                                      L

Goal.  Conduct an SL-3 inventory.

Requirement.  Given the references and a piece of equipment with its record jacket containing an SL-3 extract, perform the following:

1.  Validate inventory reference in SL 1-2.
2.  Verify UURI authorization.
3.  Identify and document on-hand, missing, or unserviceable components.
4.  Document completed inventory findings in the record jacket.

5.  Initiate supply action to replace missing and/or unserviceable components.

5.  Obtain a "supervised by" signature.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  MCO P4790.2
3.  Applicable equipment SL-3 or TM


MMGT-2102     1.0     *     B                                              L

Goal.  Initiate a service request.

Requirement.  Given a piece of equipment requiring a service request, NAVMC 1018, and a computer with GCSS access, perform the following:

1.  Fill out a NAVMC 1018 Inspection/Repair Tag (IRT).
2.  Login to GCSS.
3.  Open a new service request.
4.  Forward service request to the next level IAW SOP.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Appropriate GCSS access

Reference.
1.  TM 4700-15/1H
2.  MCO P4790.2
3.  MCBUL 3000
4.  MCO 4400.16
5.  Unit MMSOP
5.  UM 4000-125 GCSS-MC User's Manual

MMGT-2103     1.0     *     B                                                          L

Goal.  Create a Preventive Maintenance Checks and Services (PMCS) schedule.

Requirement.  Given an end item and applicable references, perform the following:

1.  State the purpose of PMCS.
2.  Identify the PM frequency.
3.  Identify PM procedures.
4. Create a PMCS schedule.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  TM 4700-15/1H
2.  MCO P4790.2
3.  Technical Manuals
4.  UM 4400-125 GCSS-MC User's Manual

MMGT-2104     2.0     *     B                                                          L

Goal.  Submit a Product Quality Deficiency Report (PQDR).

Requirement.  Given the reference, equipment or a scenario:

1.  State the criteria under which the PQDR should be submitted.
2.  Complete the PQDR.
3.  Explain the squadron's internal process for submitting a PQDR.
4.  Identify the procedure to follow up with the PQDR.
5.  Discuss external process flow of the PQDR.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. Unit MMSOP
3. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4. SECNAVINST 4855.5, Product Quality Deficiency Report Program


MMGT-2105     2.0     *     B                                                                    L

Goal.  Identify the SECREP management process.

Requirement.  Given the references, perform the following:

1. Define the purpose of the SECREP management process.
2. Define the purpose of Critical Low Density SECREP exchange process.
3. Identify the key components of the SECREP exchange process.
4. Identify the key documentation within each component of the SECREP exchange process.
5. Identify the SECREP management re-computation process.
5. Identify Low Density SECREP assets.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO P4790.2
2. MCO 4400.150
3. FEDLOG/WEBFLIS
4. UM 4000-125 GCSS-MC User's Manual


MMGT-2106     4.0     *     B                                                                    L

Goal.  Explain equipment disposition procedures.

Requirement.  Given the reference and a scenario, conduct the following:

1. State the purpose of equipment disposition.
2. State the criteria under which an item should be processed for disposition.
3. State the information required to submit a disposition request.
4. State the submission procedures for a disposition request.
5. State the method to follow up on disposition submissions.
   a. GCSS-MC
   b. Weekly Supply reconciliation.
5. Explain disposition instruction.
4. Ensure equipment is removed from the CMR as applicable.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2101, 2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Disposition Plan
2.  ULSS
3.  Equipment SL-3
4.  MCO P4400.82
5.  UM 4000-125 GCSS-MC User's Manual
5.  MMSOP
7.  MCO P4790.2


MMGT-2107     4.0     *          B,R                                                    L

Goal.  Reconcile Global Combat Support System (GCSS) reports.

Requirement.  Given the reports listed in item 1 below:

1.  Identify the purpose of:
    a.  Maintenance Production Report (MPR).
    b.  Equipment Status Report (ESR).
    c.  Preventative Maintenance Report.
    d.  Calibrations Report.
    e.  Modification Instruction report.
    f.  Maintenance Management Report (MMR).
    g.  Due and status file (DASF).
    h.  Service Request (SR).
       (1)  Tasks.
       (2)  Notes.
       (3)  Parts Requirements.
     i.  Sub-Inventory.
       (1)  Layette
       (2)  Stage
       (3)  Demand Supported Items (DSI)
    l.  Oracle Installed Base.
       (1)  Parent/Child Relationships.
2.  Identify the type of information contained in each of the forms listed above.
3.  Identify the status of a parts requisition.
4.  Identify proper use of UMMIPS priorities.
5.  State item requisition priorities.
5.  Reconcile all items listed above and list all errors found in each form.
7.  Explain how to maintain a layette bin.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  MCBUL 3000
3.  MCO P4400.16
4.  DLA Handbook
5.  Unit MMSOP
5.  UM 4400-125 GCSS-MC User's Manual


MMGT-2108     1.0     *     B                                                              L


Goal.  Verify inventory control procedures are implemented.

Requirement.  Given an equipment record and SL-3:

1.  Validate inventory results.
2.  Validate parts requisition details.
3.  Ensure service request is created within GCSS-MC.
4.  Ensure parts requirement for unserviceable items are created within GCSS-MC.
5.  Ensure inventory records are updated to reflect current status:
    a.  Item on-hand availability status.
    b.  Parts requisition status.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2102

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  MCO P4790.2
3.  UM 4000-125 GCSS-MC User's Manual


MMGT-2110     2.0     *     B,R                                                            L

Goal. Identify the Marine Corps Urgent Needs Process (MCUNP)

Requirement. Given the references and a capability gap, complete the MCUNP form.
1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Complete an Urgent UNS form.
5. Complete a deliberate UNS form.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 11475
2. MCO 3900.17


MMGT-2111     2.0      *        B                                                      L

Goal. Induct new equipment into service.

Requirement. Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and validate the induction of new equipment into service.
1. Review the Users Logistics Support Summary (ULSS) or Material Fielding Plan (MFP).
2. Validate new equipment is properly placed into service.
   a. Ensure record jacket was created with proper documentation
IAW the reference.
   b. Ensure initial SL-3 Inventory is performed.
   c. Ensure an initial LTI was performed.
   d. Ensure induction of new equipment into calibration cycle  as required.
   e. Ensure equipment is accounted for and controlled IAW classification.
3. Verify appropriate entries to install base are made
4. Ensure equipment is added to the CMR as applicable.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support.  None

Reference.
1. Fielding Plan
2. ULSS
3. Equipment SL-3
4. MCO P4400.82
5. UM 4000-125 GCSS-MC User's Manual
5. MMSOP
7. MCO P4790.2


MMGT-2112      2.0      *          B                                                      L

Goal.  Identify the types of funds.

Requirement.  Given the references, identify the governing regulations, to include the purpose and time for the following:

1. O&M
   a. Marine Corps
   b. Navy
2. PMC
3. RDT&E
4. MILCON

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. DoD Financial Management Regulation [DoD 7000.14-R (FMR) Volume 2A, Chapter 1]


MMGT-2113      5.0      *          B                                                      L

Goal.  Identify the requirements for a Demand Supported Items (DSI).

Requirement.  Given the references, end item or scenario, identify and provide the following:

1. Describe the purpose of the DSI.
2. Identify DSI constraints; cost and consumption.
3. Describe proper accountability and usage of DSI material.
4. Provide an authorization request.
5. Describe actions required within Global Combat Support System-Marine Corps (GCSS-MC).

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  MCO 4400.150
3.  UM 4000-125 GCSS-MC User's Manual


MMGT-2114     5.0     *     B                                                          L

Goal.  Develop a maintenance section budget.

Requirement.  Using equipment maintenance history and forecasting anticipated maintenance shortfalls, propose funding allocations for maintenance activities.
1.  Provide maintenance funding request based on current requirements while considering prior year utilization history.
    a.  Preventive Maintenance.
    b.  Corrective Maintenance.
2.  Draft an anticipated maintenance funding request based on the unit's TEEP to support.
    a.  Personnel travel requirements.
    b.  Administrative support requirements (SERVMART).
3.  Submit funding request with justification.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 4400.150
2.  MCO 7300.21A


MMGT-2115     5.0     *     B                                                          L

Goal.  Submit a Table of organization and equipment (TO&E) Change Request (TOECR).

Requirement. Given a scenario or actual requirement, and all applicable references:

1. Pull TO&E via the Total Force Structure Management System (TFSMS).
2. Validate the requirement for change.
3. Identify compensation for T/O changes when possible.
4. Complete TOECR.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. Trainee must have a TFSMS account and Super User role in order to complete this event.
Ordnance. None

Range. None

External Syllabus Support. MarineNet courses TFS00EQP04 or TFS00STR04

Reference.
1. MCO 5311.1
2. Unit T/O and T/E

MMGT-2116      5.0      *      B                                                      L

Goal. Conduct a Consolidated Memorandum Receipt (CMR) Review.

Requirement. Given the references and a maintenance section's CMR, ensure equipment accountability and requirements by performing the following:

1. State the purpose of a CMR.
2. Review TE.
3. Conduct a CMR inventory.
   a. Ensure SL-3 accountability
   b. Determine Using Unit Responsibility (UURI)/Government Furnished Equipment (GFE) requirements.
   c. Ensure equipment have record jackets.
   d. Maintain equipment receipt/transfer documents.
   e. Identify discrepancies, if any.
4. Write and submit a Request for Investigation IAW MCO 4400.150.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1.  MCO 4400.150
2.  CMR
3.  MMSOP
4.  SECNAV M-5215.5


MMGT-2117     4.0     *     B                                                        L

Goal.  Submit a Using Unit Responsibility Items (UURI) authorization request letter.

Requirement.  Given the reference, complete the following:

1.  Identify required UURI.
2.  Write a UURI authorization request letter.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  Equipment SL-3
3.  SECNAV M-5215.5
4.  MCO 4400.150
5.  MMSOP


MMGT-2118     4.0     *     B                                                        L

Goal.  Submit a maintenance cycle time extension letter.

Requirement.  Given the reference and applicable maintenance management reports conduct the following:

1.  Identify maintenance cycle time requirement.
2.  Submit a maintenance cycle time extension letter.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO P4790.2
2.  SECNAVINST M5215.5
3.  MMSOP

3.10.8  DEPLOYMENT (DEPL) STAGE

3.10.8.1  Purpose.  To provide the core skills required to deploy Marine Air Command and Control Systems (MACCS) equipment, to include planning, crew management, system configuration management, and setup procedures.

3.10.8.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE.

DEPL-2130        2.0        *        B,R                                                      L

Goal.  Write a packing list.

Requirement.  Given the references, perform the following:

1.  Define the purpose of a packing list.
2.  Describe essential packing list contents.
3.  Complete a packing list.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Unit SOP

DEPL-2131        2.0        *        B                                                          L

Goal.  Extract key information from communication planning documents.

Requirement.  For each of the following documents, Identify the purpose of and the location of key information contained within:

1.  Guard Chart.
2.  Communication Electronic Operating Instruction (CEOI).
3.  Operations Order.
4.  Annex K of the Operations Order.
5.  Annex U of the Operations Order.
5.  Site Diagram.
7.  Operational Tasking Data Link (OPTASKLINK).
8.  Identify who is responsible for creating and disseminating the OPTASKLINK.
9.  EKMS/KMI Callout.
10.  Satellite Access Authorization (SAA)

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 5-1
2.  MCWP 3-40.3
3.  ACEOI
4.  OPTASKLINK
5.  EKMS/KMI Callout
5.  Operational Order
7.  SAA
8.  Guard Chart


DEPL-2132          4.0          *          B                                                                    L

Goal.  Determine supply support requirements.

Requirement.  Given the reference and a 30 day operational scenario, perform the following:

1.  Determine supply needs with consideration of the following:
   a.  Location.
   b.  Equipment.
   c.  Daily operations.
   d.  Climate.
2.  Identify SECREP requirements and deficiencies.
3.  Identify bill of material (BOM) requirements.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Operational Order
3.  CMR


DEPL-2133      4.0      *      B,R                                              L

Goal.  Identify power requirements.

Requirement.  Given a scenario and references, perform the following:

1.  List all PEIs required to support the scenario.
2.  Determine power requirements for each  PEI.
3.  Determine power requirements for all ancilliary and support equipment.
4.  Determine total power requirements.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2022

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals


DEPL-2134      1.0      *      B                                              L

Goal.  Fill out a Logistics Support Request (LSR).

Requirement.  Given a scenario, fill out a request for:

1.  Transportation.
2.  Material Handling Equipment (MHE).
3.  Supplies.
4.  Personnel.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the

trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Unit SOP


DEPL-2135        8.0        1095      B,R,M                                                            L

Goal.  Conduct a site survey.

Requirement.  Given a scenario, applicable references, a TO/E and operational tasking, determine an appropriate site for system emplacement by performing the following:

1.  Use planning tools to determine terrain masking and line of sight connectivity.
2.  Determine a primary and secondary site location.
3.  Identify obstructions and hazards.
4.  Determine tactical orientation and equipment emplacement.
    a.  Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Fuels (HERF) regulations.
    b.  Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Ordinance (HERO) regulations.
    c.  Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Personnel (HERP) regulations.
    d.  Ensure emitters are emplaced to support working area.
5.  Identify the placement for vehicles.
5.  Identify the placement for antennas.
7.  Determine communications obstacles.
8.  Determine system grounding requirements.
9.  Identify power and fuel requirements.
10.  Determine protection from the elements.
11.  Determine Terrain Masking.
12.  Determine operational footprint.
13.  Design a site layout and submit to the instructor.
14.  Develop a brief that addresses all event requirement items.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2022, 2133

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Technical Manuals
2. Operational Order
3. CMR
4. MCWP 3-25.4
5. MCWP 5-1
5. MCO 5104.2
7. MCO 5104.3B


DEPL-2136       4.0       *       B                                                                L

Goal.  Write an Equipment Density List (EDL).

Requirement.  Given the references and a 30 day scenario, perform the following:

1. Define the purpose of an EDL.
2. Describe essential EDL contents.
3. Complete an EDL.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCRP 4-11.3 Unit Embarkation Handbook
2. Unit SOP
3. Technical Manuals


DEPL-2137        8.0       *       B                                                                L

Goal.  Develop an embarkation plan.

Requirement.  Given the references and a 30 day operational scenario, perform the following:

1. State the purpose of an embarkation plan.
2. Produce an equipment density list (EDL).
3. Produce Logistics documents as required.
4. Identify heavy equipment required to move EDL items.
5. Identify the modes of transportation required to move EDL items.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite. 2134, 2136

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Technical Manuals
2. Unit SOP
3. MCRP 4-11.3G Unit Embarkation Handbook


DEPL-2138      8.0      *      B                                              L

Goal. Complete a Bill of Material (BOM) request.

Requirement. Given TEEP documents and references, perform the following:

1. Collect requests from maintenance sections.
2. Consolidate required materials into a BOM request.
3. Verify the request is sufficient to support 24 hour operations and for the length of the exercise, validate the content to ensure that it meets sustained operational requirement.
4. Submit a BOM request to the Maintenance Officer

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2132

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 4400.150
2. Operational Order
3.  Technical Manuals
4. Unit SOP


DEPL-2139      3.0      *      B                                              L

Goal. Describe common agency doctrinal nets.

Requirement. Given a list of doctrinal net names in acronym format and references, perform the following:

1. Define each net acronym.
2. Describe function for each net.

3.  State the frequency spectrum doctrinally used for each net.
4.  Identify agencies required to guard each net.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1.  MCWP 3-40.3

DEPL-2140       2.0       1095      B,R,M                                                          L

Goal. Identify spectrum management procedures.

Requirement. Given the references and a scenario with operational requirements, perform the following:

1.  Identify frequency requirements.
    a.  Identify submission timelines.
    b.  Identify data elements (-Freq, Location, Power, Dates).
2.  Identify Satellite Access requirements.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1.  MCRP 3-40.3B
2.  MCO 2400.2
3.  MCWP 3-40.3

DEPL-2141       8.0       *       B                                                               L

Goal. Identify communication service requirements.

Requirement. Given the references and a scenario with operational requirements, perform the following:

1. Identify submission timelines.
2. Identify data elements.
   a. Internet protocol addresses.
   b. Location, user accounts.
   c. Dates.
   d. Phone lines.
   e. C2 application support.
      (1) Identify mission specific software requirements
      (2) Verify software version compatability (JAVA, Browsers, etc.)
   f. Data network services (NIPR/SIPR/Theater specific).
   g. Firewall exemptions.
   h. Provide Authority to Connect (ATC)/Authority to Operate (ATO) documention for all required systems.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCRP 3-40.3B Radio Operator's Handbook
2. Operational Order
3. MCWP 3-40.3
4. Unit SOP

DEPL-2142        2.0        *        B                                                        L

Goal.  Identify crew requirements and write a crew schedule.

Requirement.  Given operational tasking, references, section roster, and MSHARP crew report, perform the following:

1. Determine the duration of operations.
2. Determine total crews required to support the mission.
3. Determine the crew composition/requirements.
4. Write the crew schedule.
5. Submit the crew schedule to the instructor.
5. Describe the process to publish crew schedule once validated.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  T&R Manual
2.  MCWP 3-25.4


DEPL-2143      4.0      1095      B,R,M                                                                L

Goal.  Develop data recovery management plan.

Requirement.  With the aid of reference, develop a data management plan for organic systems including:

1.  Purpose for data backup
2.  Backup frequency
3.  Scheduling/Deconfliction
4.  Backup storage locations
5.  Levels of backup
5.  Backup disposition
7.  Document as required.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  User manuals
2.  Commercial resources


DEPL-2144      2.0      *      B                                                                       L

Goal.  Submit a Bill of Material (BOM) request.

Requirement.  Given a deployment scenario and references, perform the following:

1.  Collect requests from communications maintenance sections.
2.  Consolidate required materials into a BOM request.
3.  Verify the request is sufficient to support 24-hour operations for the length of the exercise.
4.  Validate the content to ensure it meets the requirement.
5.  Submit the BOM request.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the

trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Technical Manuals
2. Unit SOP
3. Operational Order

3.10.10  TACTICAL DATA LINK(TDL) STAGE

3.10.10.1  Purpose.  These events will instruct MACCS agency watch standers on Tactical Data Links.   To provide the core Tactical Data Link (TDL) skills necessary for operations, maintenance, and management to support mission objectives using current tactical data systems and standardized TDLs.

3.10.10.2  General

Prerequisite.  NONE.

Admin Notes.  NONE.

Crew Requirements.  NONE

TDL-2800          10        1095      B,R,M                                                                      G

Goal.  Identify the purpose of documents that enable Tactical Data Link (TDL) operations.

Requirement.  Given the documents below, identify their purpose:

1. Guard Chart.
2. Communication Electronic Operating Instruction (CEOI).
3. Operations Order Annex K.
4. Operations Order Annex U.
5. Link 16 Network Description Document.
5. Communications Security (COMSEC) Callout.
7. Operational Tasking Data Link (OPTASK LINK).
8. Satellite Access Authorization (SAA).
9. Joint Multi-TDL Operating Procedures (JMTOP).

Performance Standard.  With the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 5-1, Marine Corps Planning Process
2.  MCWP 3-40.3, MAGTF Communications Systems
3.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)


TDL-2801         10       1095    B,R,M                                                      G

Goal.  Identify TACC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.4, Tactical Air Command Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2802         10       1095    B,R,M                                                      G

Goal.  Identify TAOC and EW/C voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.7, Tactical Air Operations Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2803          10          1095      B,R,M                                                                            G

Goal.  Identify DASC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.5, Direct Air Support Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5.  Unit T/O and T/E


TDL-2805          10          1095      B,R,M                                                                            G

Goal.  Identify LAAD voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.

2. Data link systems.
3. C2 Systems.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.10, Low Altitude Air Defense Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5. Unit T/O and T/E

TDL-2806        10        1095      B,R,M                                                    G

Goal. Identify MATC voice and data communications equipment.

Requirement. Given the references, identify the following:

1. Radio systems.
2. Data link systems.
3. C2 Systems.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.8, Marine Air Traffic Control Detachment Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment
5. Unit T/O and T/E

TDL-2808        10        0        B                                                          G

Goal.  Describe the Joint Data Network.

Requirement.  1. Define the Joint Data Network (JDN).
2. State the responsibilities of the Joint Data Network Operations Officer (JDNO).
3. State the purpose of the Global Command and Control System (GCCS) Family of Systems (FoS).
4. Define Common Operational Picture (COP).
5. Define Common Tactical Picture (CTP).
5. Define Tactical Picture.
7. State the components of the CTP.
8. Describe track management.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 3115.01: Volume 1, Joint Data Network Operations
2. CJCSM 3115.02: Volume 2, Common Tactical Picture Data Management
3. CJCSI 3115.01, CTP Reporting Requirements
4. CJCSI 3151.01B, GCCS COP Reporting Requirements

TDL-2809        20        1095      B,R,M                                                    G

Goal.  Describe the Multi-Tactical Data Link (TDL) Interface.

Requirement.  Perform the following:

1.  State the concept and information exchange of the Multi-TDL Interface.
2.  State the technical functions of the Multi-TDL Interface.
3.  List the three elements of the Multi-TDL Interface
4.  Define the Basic Interface and list its three data links.
5.  Identify the characteristics of Link 11
5.  Identify the characteristics of Link 11B
7.  Identify the characteristics of Link 16
8.  Define the Extended Interface.
9.  Identify the purpose of the Joint Range Extension Application Protocol (JREAP).
10. Define the following interface voice coordination nets:
    a.  Air Defense Command and Control Net (ADCCN)
    b.  Engagement Control Net (ECN)
    c.  Datalink Coordination Net (DCN)
    d.  Track Supervision Net (TSN)
    e.  Voice Product Net (VPN)
11. Describe the delegation of responsibilities for the conduct of the Multi-TDL operations at the Joint Task Force (JTF) level and below.

12. State the two Interface Control Officer (ICO) execution functions.
13. State the responsibilities of the Link 16 Manager.
14. State the responsibilities of the Link 11/11B Manager.
15. State the responsibilities of the Track Data Coordinator (TDC).
15. List the minimum requirements for Services that operate the Multi-TDL Interface.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard

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TDL-2815          10          0          B                                                                                    G

Goal.  State the Characteristics of Link 11

Requirement.  1. Define the following Link 11 station modes of operation:
    a. Net Control Station (NCS)
    b. Picket
    c. Radio Silence
2. Define the following Link 11 net modes of operation:
    a. Roll Call
    b. Broadcast (Long)
    c. Short Broadcast
    d. Net Sync
    e. Net Test
3. State the purpose of the following Link 11 waveforms:
    a. Conventional Link 11 Waveform (CLEW)
    b. Single Tone Link 11 Waveform (SLEW)
4. Describe the characteristics of the following Link 11 data encryption modes:
    a. A1
    b. A2
    c. B
    d. Plain Text
5. Define Data Link Reference Point, and state typical usage criteria and limitations.
5. Describe Link 11 Gridlock.
7. Define Net Cycle Time

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B


TDL-2816        10        0        B                                                    G

Goal.  State the characteristics of Link 11B

Requirement.  1.  State the communications mediums that Link 11B can be transmitted over.
2.  State the most common encryption devices used for Link 11B.
3.  State the purpose of "strapping," with respect to Link 11B encryption devices.
4.  Define the following Link 11B data transmission modes:
a.  Limited Transmission of Data (LTD) mode.
b.  Full Transmission of Data (FTD) mode.
5.  Define Data Link Reference point, and state typical usage criteria and limitations per the Joint Multi-TDL Operating Procedures.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B


TDL-2818        30        0        B                                                    G

Goal.  State the characteristics of Link 16

Requirement.  Perform the following:

1.  Identify terminal capacity of a Link 16 terminal.
2.  Identify spectral capacity of a Link 16 network.
3.  Identify the two types of security used by Link 15.
4.  Identify the organization of a Secure Data Unit (SDU).

5.  Identify the purpose of the JANUS Table.
5.  Identify the two range modes associated with Link 15.
7.  Define direct connectivity.
8.  Define relayed connectivity.
9.  Identify the purpose of an Initialization Data Load (IDL).
10.  Locate the website and phone number of the USMC Network Design Facility (NDF).
11.  Define time division multiple access.
12.  Identify the acceptable time error when initializing a Link 16 terminal.
13.  Explain the synchronization process and the importance of each message in the synchronization process:
    a.  Precise Participate Location and Identification (PPLI)
    b.  Initial Entry Message (IEM)
    c.  Round Trip Timing (RTT) Message
14.  Identify the two Link 16 duties that transmit the IEM.
15.  Identify the frequency range used by Link 15.
15.  State the purpose of pulse deconfliction.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. CJCSI 6232.01, Link 16 Spectrum Deconfliction

TDL-2819          20          0          B                                                                    G

Goal.  State the characteristics of the Joint Range Extension Application Protocol (JREAP).

Requirement.  Perform the following:

1.  Describe JREAP A.
2.  Select the data rates of JREAP A.
3.  Describe JREAP A roles.
4.  Describe the JREAP A Transmission Sequence List (TSL).
5.  Explain the difference between JREAP A and Satellite J.
5.  Describe JREAP B.
7.  Describe JREAP B modes of operation.
8.  Select JREAP B data rates.
9.  Describe JREAP C.
10. Describe JREAP C modes of operation.
11. Define the following terms associated with JREAP:
    a.  Common Time Reference
    b.  Demand Assigned Multiple Access (DAMA)
    c.  Joint Range Extension (JRE)

    d.  JRE Network Controller

    e.  JRE Source Track Number

    f.  Link 16 Zone

    g.  Multicast

    h.  Packet

    i.  Port

    j.  Secondary Track Number

    k.  Token Passing

    l.  Unicast

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2809

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-3011, JREAP Interface Standard

TDL-2823          10          0          B                                                                                    G

Goal.  State the characteristics of the Variable Message Format (VMF).

Requirement.  Given the reference, explain:

1.  The purpose of Variable Message Format (VMF) messages
2.  The characteristics of VMF messages
3.  VMF message functional areas
4.  Transmission medium options used to exchange VMF messages
5.  Unit Reference Numbers
5.  How URNs are assigned
7.  The purpose of the K01.2 Unit Reference Query/Response message
8.  Position reporting requirements of VMF units
9.  The purpose of a K05.1 Position Report
10. The purpose of a K04.1 Observation Report
11. VMF multi-cast groups
12. K Series and J Series data forwarding

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 3115.0, Joint Data Network Operations
2. CJCSM 6120.0, Joint Multi-TDL Operating Procedures (JMTOP)
3. MIL-STD-188-220, Digital Message Transfer Device Subsystems
4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
5. MIL-STD-6017, VMF Interface Standard
7. MIL-STD-6020, Data Forwarding Between TDLs

TDL-2826          10          0          B                                                                    G

Goal. State the characteristics of Cooperative Engagement Capability (CEC)

Requirement. Given the references:

1. State the purpose of CEC.
2. State the characteristics of the CEC network.
3. Identify the Navy platforms capable of participating in the CEC network.
4. State the Marine Corps equipment required to interface with CEC.

Performance Standard. Pass an exam.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TACMEMO 3-01.3-12 CEC Tactical Employment Guide, Feb 2012
2. USN Capabilities and Limitations website http://cnl.phdnswc.navy.smil.mil/
3. Navy CEC Fact Sheet
4. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

5.11 MISSION SKILL TRAINING (3000)

5.11.1 Purpose. To provide the requisite advanced skills and working knowledge to employ the MACCS and ancillary equipment in order to accomplish the Marine Air Support Squadron missions.

5.11.2 General.

5.11.2.1 Prerequisite.

5.11.2.2 Admin Notes.

   (1) Training in this phase does not preclude simultaneous training in Core Skill and Core Plus phases.

(2) Individual core skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

(3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable.  Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event.  Crew member assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual properly demonstrating the event performance standard.

(4) <u>Academic Training</u>.  Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited as a prerequisite for follow-on training events.

(5) <u>Refresher Training</u>.  Refresher training is required once a individual has been absent from a technician billet for 36 months or longer.  Upon return, the individual will complete R-coded events in the Attain table; else the technician will maintain proficiency by completing the R-coded events in the Maintain table.

5.11.2.3  <u>Stages</u>.  The following stages are included in the Mission Skill Phase of training.

| PAR NO. | STAGE NAME |
|---|---|
| 5.11.3 | COMPUTER AND NETWORK TRAINING (CANT) |
| 5.11.4 | MAINTENANCE MANAGEMENT (MMGT) |
| 5.11.5 | DEPLOYMENT (DEPL) |

5.11.3  <u>COMPUTER AND NETWORK TRAINING (CANT) STAGE</u>

5.11.3.1  <u>Purpose</u>.  To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

5.11.3.2  <u>General</u>

<u>Prerequisite</u>.  None

<u>Admin Notes</u>.  None

<u>Crew Requirements</u>.  None

<u>CANT-3000</u>     8        1095     B,R,M                                              L

<u>Goal.</u>  Plan a Local Area Network

<u>Requirement.</u>  Given an operational scenario using TE assets:

1.  Identify information technology assets required
   a.  Number of Clients/Workstations at each geographic location
   b.  Number of Servers at each geographic location
   c.  Location of proxy server
2.  Identify asset locations
3.  Identify sub-netting
4.  Verify routes
5.  Record network configuration
5.  Build detailed requirements to provide service provider
7.  Plan quality of service in accordance with device priority
8.  VLAN management

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2040, 2042, 2043, 2044, 2045, 2046

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Site diagram
2. MCWP 3-40.3
3. Technical Manuals

CANT-3003      4.0      1095      B,R,M                                                      L

Goal. Design network architecture.

Requirement. Given an operational scenario and required network information, draw a visual representation of the network consisting of the following:

1. Location of cells and users.
2.  Internet Protocol (IP) addresses, subnet, and netmask.
3. Notation of domain.
4. Computer hostnames.
5. Placement of switches/routers.
5. Placement of Principle End Items (PEIs).
7. Security measures.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2040, 2042, 2043, 2044, 2045, 2046

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CompTIA Approved Quality Content (CAQC) program reference material
2. Applicable User's Manuals for specific network devices.
3. Current industry-standard curriculum and references.

5.11.7 MAINTENANCE MANAGEMENT (MMGT) STAGE

5.11.7.1 Purpose. To provide the trainee advanced skills to be able to deploy TAOC and EW/C equipment to

include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

5.11.7.2  General

       Prerequisite. None

       Admin Notes. None

       Crew Requirements. None

MMGT-3020    5.0    1095    B,R,M                                            L

       Goal.  Ensure the corrective maintenance repair process is being conducted.

       Requirement.  Ensure the timely performance of all corrective maintenance actions per the references.
1.  Verify the induction process:
   a.  Confirm SL-3 accountability.
   b.  Ensure visual inspection occurs.
   c.  Verify record jacket.
   d.  Verify proper organizational PM.
2.  Ensure correctness of Service Request (SR) and NAVMC 1018.
3.  Determine availability of resources.
4.  Ensure proper troubleshooting of faulty item.
5.  Ensure repair parts are ordered and correctness of SR.
5.  Ensure faulty item is repaired to code A status.
7.  Ensure safety measures are adhered to during repair process.
8.  Conduct quality control procedures:
   a. Review quality control procedures.
   b. Verify quality control inspectors based on individual qualifications on equipment are assigned in writing.
9.  Verification of MI and TI.
10.  Verify proper closeout of SR.
11.  Ensure equipment record jacket is updated.

       Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

       Instructor.  SI

       Prerequisite.  2100, 2101, 2102, 2103, 2104, 2105, 2107, 2108

       Ordnance.  None

       Range.  None

       External Syllabus Support.  None

       Reference.
1.  MCO P4790.2
2.  TM-4700-15/1H
3.  MCO 4400.16
4.  MCBUL 3000
5.  Associated Equipment TM
5.  UM 4000-125 GCSS-MC User's Manual

7. MCO 4400.150
8. MMSOP

MMGT-3022     2.0     *     B                                                    L

Goal.  Validate SECREP assets in preparation for float re-computation conference.

Requirement.  Given a practical application scenario, applicable maintenance and supply history documents, review and provide recommendations for organizational Critical Low Density SECREP (CLD) assets and required on-hand quantities in preparation for float recomputation.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2102, 2105

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4790.2
2. MCO 4400.150
3. FEDLOG/WEBFLIS
4. UM 4000-125 GCSS-MC User's Manual
5. MMSOP

MMGT-3023     4.0     1095     B,R,M                                              L

Goal.  Assess maintenance shop performance.

Requirement.  Given the references, perform the following:

1. Determine key performance indicators.
2. Determine functional areas to be inspected.
3. Develop an inspection plan.
4. Assign personnel to conduct inspections.
5. Review results.
5. Assess strengths and weaknesses.
7. Develop/implement a corrective plan.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2105, 2106, 2111, 2113, 2114, 2115, 2116, 2117, 2118

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. FSMAO Checklist
2. CGI Checklist
3. Unit SOP
4. MMSOP
5. MCO P4790.2
5. UM 4000-125 GCSS-MC User's Manual


MMGT-3024     2.0       1095     B,R,M                                                      L

Goal.  Assess maintenance section funding requirements.

Requirement.  With the aid of references and given equipment maintenance history, projected TEEP, and anticipated maintenance shortfalls, propose funding allocations for maintenance activities.
1. Identify and prioritize funding requirements.
2. Provide a maintenance funding request based on requirements and prior year utilization.
3. Provide an anticipated maintenance funding request based on the unit's TEEP.
4. Identify personnel travel requirements.
5. Identify unit-funded training requirements.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2112

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCO 4400.150
2. MCO 7300.21A


3.11.5 DEPLOYMENT (DEPL) STAGE

3.11.5.1 Purpose.  To provide the mission skills required to deploy Marine Air Command and Control Systems (MACCS) equipment, to include planning, crew management, system configuration management, and employment procedures.

3.11.5.2 General

Prerequisite.  NONE

Admin Notes. NONE

Crew Requirements. NONE

DEPL-3041     5.0     1095     B,R,M                                                              L

Goal. Identify Operational Requirements.

Requirement. Given an OPORD and lessons learned, determine the operational requirement of the maintenance section to support the mission, to include:

1. Communication electronics equipment required.
   a. Radio requirements.
   b. Network requirements.
   c. TMDE
   d. Tools
2. Engineering equipment.
   a. Air conditioners.
   b. Heavy equipment.
   c. Generators.
3. Personnel required.
   a. Identify minimum number of mission skilled maintainers per crew required to support the mission.
   b. Identify minimum number of designated leaders required to support the mission.
   c. List the administrative requirements for crew.
      (1) Tactical license.
      (2) Security Clearances/Couriers
      (3) Personnel packing list requirements.
4. EKMS required.
5. Logistics support required.
5. Supply support required.
   a. Bill of Material (BOM) requirements.
   b. SECREP requirements.
7. Frequencies required.
   a. Draft a frequency request.
   b. Draft a satellite access request.
8. Develop an Equipment Density List (EDL) for PEIs.
9. Draw a site layout plan.
10. Draft a brief covering addressing the deployment and emplacement plan to support the mission.
11. Submit the site layout and brief the plan.

Performance Standard. With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Planning MCWP 5-1
2. MOS Manual
3. Unit T/O and T/E
4. MCWP 3-40.3
5. Warning Order

5. Operational Order
7. T&R Manual


DEPL-3042        4.0        1095        B,R,M                                                                L

Goal.  Develop disaster recovery plan.

Requirement.  With the aid of reference, perform the following:

1. Data backup/recovery plan
2. Power grid plan
3. Security plan
4. Accountability

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2000, 2002, 2022, 2143

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. User manuals
2. Commercial resources


DEPL-3043        5.0        1095        B,R,M                                                                L

Goal.  Design a site layout.

Requirement.  Given a scenario, the references, a TO/E and mission statement, determine an appropriate site for system emplacement by designing a site layout by performing the following:

1. Conduct a site survey.
2. Determine a primary and secondary site location.
3. Analyze terrain to:
    a. Determine tactical orientation and equipment emplacement.
    b. Determine obstructions and hazards.
    c. Determine communications requirements and obstacles.
    d. Determine operational footprint.
    e. Determine power and fuel requirements.
    f. Determine the placement for vehicles.
    g. Determine the placement for antennas.
    h. Determine proper grounding system.
    i. Determine protection from the elements.
    j. Determine Terrain Masking.
4. Utilize planning tools (FalconView, AMP, SPEED, etc.) to determine terrain masking and line of sight connectivity.

5.  Design a site layout.
     a.  Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Fuels (HERF) regulations.
     b.  Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Ordnance (HERO) regulations.
     c.  Ensure emitters are emplaced IAW Hazardous Electromagnetic Radiation to Personnel (HERP) regulations.
     d.  Ensure emitters are emplaced to support working area.
     e.  Ensure all equipment is clearly depicted.
5.  Submit the site layout to the instructor for validation.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  Technical Manuals
2.  Operational Order
3.  CMR
4.  MCWP 3-25.4
5.  MCWP 5-1

DEPL-3044        8.0        1095        B,R,M                                                                    L

Goal.  Develop a Communications Plan for a MACCS agency.

Requirement.  Given the references and an operational scenario, develop a communications plan.
1.  Develop a Single Channel Radio (SCR)Diagram for a MACCS agency's doctrinal nets
2.  Develop a SCR guard chart for the communications plan.
3.  Develop a chat guard chart for a MACCS agency's typical chat rooms.
4.  Develop a data link architecture diagram depicting an agency's participation.
5.  Develop a digital backbone diagram depicting the connection to services.
5.  Develop restoration priorities.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2139

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. MCWP 3-25 Series
2. MCWP 3-40.3


DEPL-3045     4.0     1095     B,R,M                                                                L

Goal.  Plan for deployment of Tactical Data Systems.

Requirement.  Complete the following events:

1. Establish an accurate equipment density list.
2. Establish an accurate packing list.
3. Establish an accurate T/O list.
4. Identify heavy equipment requirements
5. Establish an accurate bill of materials list.
5. Coordinate COMSEC support.
7. Identify communication requirement.
8. Establish an accurate SECREP list required for deployment.
9. Build a contacts list for key planning personnel.
10. Identify and request fuel requirements.
11. Identify and request power requirements.
12. Coordinate with MMO for proper procurement procedures during deployment.
13. Identify and request environmental condition unit requirements.
14. Identify and request appropriate transportation requirements.
15. Identify facility requirements.
15. Obtain letter of instruction for deployment.
17. Inspect gear required on the gear list for individual Marines  for deployment.
18. Familiarize the Marines with emergency action plan for deployment.
19.  Plan for the safeguarding and transportation of CCI/Classified material.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. Unit SOP
2. Technical Manuals
3. Operational Order
4. CMR


DEPL-3046     8.0     1095     B,R,M                                                                L

Goal.  Develop a Communications Plan for the MACCS

Requirement. As a part of a planning team, given the references and an operational scenario, develop a communications plan.
1. Develop a Single Channel Radio (SCR)Diagram for MACCS doctrinal nets
2. Develop a SCR guard chart for the communications plan.
3. Develop a chat guard chart for typical MACCS chat rooms.
4. Develop a data link architecture diagram depicting the MACCS datalinks
5. Develop a digital backbone diagram depicting the connection to services.
5. Develop restoration priorities.

Performance Standard. As a part of a planning team that consists of a representative from each MACCS agency and a MWCS representative, develop a communications plan.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
MCWP 3-40.3

DEPL-3047     8.0     1095     B,R,M                                                          L

Goal. Conduct post deployment analysis

Requirement. Given a plan operational requirements, conduct a debrief with crew chiefs, maintenance chiefs, and maintenance officers to develop lessons learned upon completion of a deployment that includes the following:

1. Personnel
   a. T&R
   b. Quantity
   c. Packing List
   d. Medical/Dental
   e. Administrative/legal readiness
2. Equipment
   a. Excesses and shortages
   b. Float Block/Class IX shortages
   c. Site Survey/Layout
   d. Terrain Masking
   e. Supported operational requirements
3. Planning Process
   a. Environmental
   b. Spectrum/SAA
   c. Communications requirements
      (1) Voice
      (2) Data
      (3) Phones
      (4) Keying Material
   d. Logistical Support

      (1)  Heavy Equipment
      (2)  Supply
      (3)  BOM
      (4)  Fuel
      (5)  Water
      (6)  Utilities
      (7)  Chow
      (8)  Billeting
   e.  Emergency Action Plan
   f.  Disaster Recovery Plan
4.  Security
   a.  Personnel
   b.  Material
   c.  Couriers/Transportation
   d.  Storage
5.  Document lessons learned

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2143, 3042

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCO 3120.6
2.  Technical Manuals
3.  Operational Order
4.  CMR
5.  Unit SOP

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DEPL-3048     4.0     1095   B,R,M                                 L

Goal.  Organize and staff crew for deployment.

Requirement.  Given a scenario and references, perform the following:

1.  Integrate crew personnel.
   a.  Ensure minimum number of core skilled maintainers are assigned per this manual.
   b.  Ensure minimum number of designated leaders are assigned per this manual.
2.  Administrate crew.
   a.  Tactical license.
   b.  Supply.
   c.  Orders.
   d.  Security Clearance.
   e.  Pay.
   f.  Courier Letter.
3.  Conduct crew brief.

Performance Standard.  With the aid of reference, complete the requirements, minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  MCWP 3-25.4
2.  T&R Manual

5.12  CORE PLUS TRAINING (4000)

5.12.1  Purpose. To provide the core plus and mission plus skills necessary to safely embark, setup, operate, maintain, administor, and integrate mission specific or non-ogranic tactical data systems within the Marine Air Command and Control System (MACCS) and external agencies.

5.12.2  General.

5.12.2.1  Prerequisiste.

5.12.2.2  Admin Notes.  The following information is provided to guide the Marine in the training of this Phase:

(1) Training in this phase does not preclude simultaneous training in the Mission Skill and Core Skill Advanced phases.

(2) Individual Core Skills are learned and mastered using a varied combination of written exams, scenarios and practical demonstrations of proficiency.

(3) If crew members are required to assist in the conduct of an event, the crew shall be core capable in the role they will play, as applicable.  Training will be executed as individual training with appropriate assistance at the crew level as needed and as dictated by the conditions listed for each event.  Crewmember assistance must be restricted to those actions required to support or facilitate individual training so as not to detract from the individual properly demonstrating the event performance standard.

(4) Academic Training.  Academic training will be conducted prior to and concurrently with required events. An academic training event, once completed, can be credited as a prerequisite for follow-on training events.

5.12.2.3  Stages.  The following stages are included in the Core Plus Skill Introduction Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 5.12.3  | TACTICAL DATA LINKS (TDL) |

5.12.3  TACTICAL DATA LINKS (TDL) STAGE

5.12.3.1  Purpose.  To instruct the trainee on MACCS unique electronic equipment.

5.12.3.2  General

  Prerequisite. None

  Admin Notes. None

  Crew Requirements. None

TDL-4820      20      0      B                                                      G

  Goal.  Identify mission essential segments, sets, and fields within the OPTASK LINK message.

  Requirement.  With the aid of reference, perform the following:

1.  Identify the purpose of the OPTASK LINK.
2.  Identify who is responsible for creating and disseminating the OPTASK LINK.
3.  State the purpose of the Common Message Processor (CMP) and discuss its relationship to the OPTASK LINK.
4.  Define Segment.
5.  Define Set.
5.  Define Field.
7.  Identify the information contained in the Header of the OPTASK LINK to include the following sets:
a.  GENTEXT/CONDUCT OF TDL OPERATIONS.
b.  POCLINK.
c.  DLRPGRID.
8.  Identify the information contained in the IVCCN Segment.
9.  Identify the information contained in the CORRDEC set.
10. Identify the information contained in THE HEADING/MULTILINK INTERFACE COORDINATION REQUIREMENTS set to include the following GENTEXT sets:
a.  FORCE INTERFACE INFORMATION.
b.  REGIONAL INTERFACE INFORMATION.
c.  SECTOR INTERFACE INFORMATION.
d.  CHANGE DATA ORDER AUTHORITIES.
e.  CONTINGENCY PROCEDURES.
f.  TRACK PRODUCTION AREA GUIDANCE.
11. Identify the information contained in the MULCDUTY set.
12. Identify the information contained in the Link 11 Segment to include the following sets:
a.  POLLSEQ.
b.  LSYSDATA.
c.  CRYPTDAT.
d.  DALKFREQ.
e.  FORCFLTER.
f.  LPUDATA.
g.  UNITFLTR.
13. Identify the information contained in the Link 16 Segment to include the following sets:
a.  JNETWORK.
b.  CPD.
c.  JCRYPDAT.
d.  JTRNMODE.
e.  JSTNETS
f.  JUDATA.
g.  SQDDATA.
14. Identify the information contained in the Joint Range Extension (JRE) Data Segment to include the

following sets:
a. UNITINFO.
b. LNKPROT.
c. SECTEL.
d. SECINTER.
e. SATCONN.
f. CONMATRX.
15. Identify the information contained in the 1MANCODE set.

Performance Standard. With the aid of reference, state (verbally or written) the required items.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures
2. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS


TDL-4821        10        0        B                                                        G


Goal. State the purpose of Interface Coordination procedures.

Requirement. Perform the following:

1. Identify the purpose of data link entry/exit procedures.
2. Define data registration.
3. State the purpose of the following data registrations:
a. Geodetic registration
b. Sensor registration
c. Remote Interface Unit (IU) registration
4. List the steps of the data registration test.
5. State which unit will normally be assigned as the data registration reference unit in a Multi-TDL environment.
5. List the five correlation restrictions for reported tracks.
7. List the eight operational contingency constraints (OCCs) for a track.
8. List the six steps for voice resolution of a dual designation.
9. IAW the JMTOP, what is the single most important element of information of the TDL interface.
10. Define an Identification (ID) conflict.
11. Define an environment conflict.
12. Outline the ID difference resolution procedures.
13. Define a Change Data Order (CDO).
14. State who on the interface may originate a CDO.
15. Identify the three detection and tracking reporting techniques.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MCRP 3-25E, MTTP for an Integrated Air Defense System


TDL-4824        10      0      B                                                    G


Goal.  Identify elements of Combat Net Radios (CNR) Networks.

Requirement.  Given the reference:

1.  Define Combat Net Radios (CNR).
2.  Identify CNR capable data systems in the Marine Corps.
3.  Identify CNR capable aircraft in the Marine Corps.
4.  Identify CNR capable aircraft in the Joint Force.
5.  Identify the purpose of the MIL-STD-2045-47001 Header.
5.  Identify CNR Address requirements.
7.  Explain how a CNR Data Link addresses can be determined based on aircrafts ATO call sign side number.
8.  Identify the purpose of an IP address in CNR.
9.  Identify the method to calculate the IP address of an aircraft based on squadron number and ATO call sign side number.
10. Identify the generic subnet mask used to ensure CNR interoperability.
11. Identify the concept of Network Layer Pass-through.
12. Explain the interoperability issues that exist with CNR.
13. Identify the techniques used to provide network access with CNR.
14. Identify the characteristics of Random-Network Access Delay (R-NAD).
15. Identify the characteristics of Deterministic Adaptable Priority-Network Access Delay (DAP-NAD).
15. Define the term radio mix.
17. Explain the importance of timing parameters used with asynchronous CNR networks.
18. Explain the importance of Operational Parameter Settings (OPS) in asynchronous CNR networks.
19. Identify the organization responsible for disseminating OPS.
20. Explain the importance of Extended OPS settings.
21. Explain the process of joining a CNR network with established network parameters.
22. Explain the method to join a CNR network with adaptive network parameters.
23. Describe a Digitally Aided Close Air Support thread.
24. Describe a Digitally Aided Fire Support thread.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 3115.01, Joint Data Network Operations
2. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
3. MIL-STD-188-220, Digital Message Transfer Device Subsystems
4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
5. MIL-STD-6017, VMF Interface Standard
7. MAWTS-1 TACP TACSOP
8. JF J-6 DaCAS White Paper
9. System of Systems Engineering Change Proposal 1, Base Line DaCAS Messaging and RF Network
10. System of Systems Engineering Change Proposal 4, exchange of Network Parameters
11. Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
12. MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values


TDL-4825          10        0        B                                                                    G


Goal.  Identify elements of the OPTASK LINK Combat Net Radios (CNR)Segment/Supplement.

Requirement.  Given the reference:

1. Identify the purpose of the OPTASK LINK Combat Net Radios (CNR) Segment/Supplement.
2. Identify the Variable Message Format (VMF) Functional Areas supported by the OPTASK LINK CNR.
3. Identify the two radio network architectures supported by the OPTASK LINK CNR.
4. Identify the information contained in the CNRSEG set.
5. Identify the information contained in the CNRAREA set.
5. Identify the relationship between a CNRSEG and an area of operation.
7. Identify the information contained in the POCLINK set.
8. Identify the information contained in the CNRSET set.
9. Identify the information contained in the SNS set.
10. Explain where to find the OPS table referenced in the SNS set.
11. Identify the information contained in the CNETWORK set.
12. Identify the information contained in the CRYPTDAT set.
13. Identify the information contained in the CWEPCRYP set.
14. Identify the information contained in the UHFLOS set.
15. Identify the information contained in the UHFSAT set.
15. Identify the purpose of the Air Support Segment.
17. Identify the information contained in the ASCCID set.
18. Identify the information contained in the ASCCOMM set.
19. Identify the information contained in the Air Support Information GENTEXT.
20. Identify the purpose of the Tactical Control Team Segment.
21. Identify the information contained in the TCTID set.
22. Identify the information contained in the TCTCCOMM set.
23. Identify the information contained in the Tactical Control Team 24. Information GENTEXT.
24. Identify the purpose of the Aircraft CNR Segment.
25. Identify the information contained in the SQDCNRDT set.
25. Identify the information contained in the CNR Coordination Instructions  GENTEXT.

Performance Standard.  With the aid of the Guide to the USMTF User Formats and given a CNR Network, OPTASK LINK CNR, a CNR Architecture Diagram template, a Quick Reference Guide template, and

MIL-STD-188-220 Standard Configuration Tables; perform CNR network planning IAW unit SOP. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DISA USMTF Baseline
2.  Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
3.  CJCSM 3115.01, Joint Data Network Operations
4.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP_
5.  MIL-STD-188-220, Digital Message Transfer Device Subsystems
5.  MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
7.  MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
8.  MIL-STD-6017, VMF Interface Standard
9.  MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values

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TDL-4849          8          0          B                                             L

Goal.  Conduct tactical data link planning for an agency.

Requirement.  Given an exercise or operational scenario:

1. Obtain the communications and data link source documentation for the specified exercise or operation.
2. Identify required crypto short titles in the COMSEC callout.
3. Identify communication nets required for TDL coordination.
4. Identify duties assigned to the unit in the OPTASK LINK.
5. Identify primary, secondary, and tertiary tactical data links.
5. Identify required TDL equipment and configuration to crew leadership.
7. Construct the data link portion of the crew brief IAW the unit's Pocket Checklist.
8. Provide planning  inputs to the Interface Control Officer as required.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)

2. C3 Agency's Pocket Checklist


TDL-4850       8       0       B                                                      L

Goal.  Conduct tactical data link coordination for an agency.

Requirement.  Given an exercise or operational scenario:

1.  Brief the tactical data link (TDL) portion of the agency's crew brief.
2.  Execute the agency's duties identified in the OPTASK LINK
3.  Respond to instructions given by the Interface Control Officer (ICO).
4.  Provide recommendations to the ICO during execution.
5.  Configure primary, secondary, and tertiary tactical data links.
5.  Monitor the status and health of operational TDLs.
7.  Coordinate data forwarding and link connections for the agency.
8.  Coordinate data filters for the agency.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist


TDL-4851       8       0       B                                                      L

Goal.  Perform track data coordination for a track producing agency

Requirement.  Given the references and an operational C2 system:

1. Coordinate the changes in the agency's track production responsibilities as the tactical situation changes
2. Coordinate the agency's usage of data filters
3. Coordinate the agency's usage of special points, lines, and areas on the Multi-Link Interface
4. Perform the resolution of the following interface anomalies affecting the local agency:
a. Dual designations
b. Duplicate tracks
c. Identification conflicts
d. Category and environment conflicts

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist


TDL-4852        8        0        B                                                            L

Goal.  Perform Link 16 Management Functions

Requirement.  Given the references and participation as the Link 16 Manager in a MAGTF or Joint exercise:

1. Schedule usage of Link 16 with the Deconfliction Server for all agencies.
2. Provide input to the Link 16 portion of the OPTASK LINK message.
3. Based upon the Commander's Information Exchange Requirements, coordinate with the ICO the selection of a network which will meet these IERs.
4. Ensure that each Link 16 participant has the correct IDL.
5. Direct the proper initialization of the Link 16 network.
5. Monitor network performance and recommend modification/changes to the ICO.
7. Maintain an accurate status of the network and its participants.
8. When required, coordinate changes to the network.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Link 16 capable units participating in a MAGTF or Joint exercise.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. LMS-MT System Users Guide
3. CJCSI 6232.01, Link 16 Spectrum Deconfliction


TDL-4853        8        0        B                                                            L

Goal.  Perform as the Track Data Coordinator

Requirement.  Given the references and an operational MACCS:

1. Perform as the Net Control Station for the Track Supervision Net (TSN).
2. Direct a data registration test between two track producing units.
3. Resolve the following interface anomalies:
a. Dual designations
b. Duplicate tracks
c. Identification conflicts
d. Category and environment conflicts
4. Transmit Change Data Orders (CDOs) when required.
5. Monitor the use and transmission of special points, lines, and areas.
5. Enforce the track production plan.
7. Recommend changes to surveillance areas to the Interface Control Officer (ICO).
8. Recommend changes in data filter usage to the ICO.
9. Conduct Fidelity Drills as directed by the ICO

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  Two track producing agencies.

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

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TDL-4854          8          0          B                                                              L

Goal.  Perform Interface Control Officer planning functions.

Requirement.  Given a scenario and the references:

1. Gather details pertaining to the operational environment to include:
a. Operational Scenario.
b. Identification and prioritization of information exchange requirements.
c. Communications equipment characteristics and frequencies.
d. EW Considerations.
e. Cryptographic requirements.
2. Gather details on each TDL Interface Participant to include:
a. Geographic location.
b. Information exchange requirements.
c. Expected track loading.
d. Capabilities and limitations.
e. Current issues or degradations that would affect an Interface Unit's ability to operate its assigned data links.
3. Identify capabilities and limitations of each Tactical Data Link (TDL) to support information exchange requirements.
4. Develop the Multi-TDL Architecture.
5. Coordinate with the USMC Network Design Facility for an appropriate Link 16 Network

5. Validate that the Multi-TDL Architecture supports information exchange requirements.
7. Develop the OPTASK LINK.

Performance Standard. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard
5. https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
5. CJCSI 6232.01, Link 16 Spectrum Deconfliction
7. MCRP 3-25E, MTTP for an Integrated Air Defense System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

TDL-4855          8          0          B                                                                L

Goal. Perform Interface Control Officer Execution Functions.

Requirement. Given the references and an operational MACCS:

1. Perform as the Net Control Station (NCS) for the Data Link Coordination Net (DCN).
2. Coordinate the NCS for Link 11.
3. Coordinate the Network Time Reference (NTR) for Link 15.
4. Enforce published net entry and exit procedures.
5. Direct data link fidelity drills.
5. Direct the activation of data filters as required.
7. Monitor and maintain Interface Unit (IU) TDL status.
8. Determine and resolve Multi-TDL connectivity problems.
9. Direct and assist the Track Data Coordinator in resolving issues.
10. Coordinate the activation of secondary and tertiary data links.

Performance Standard. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support.  None

Reference.
1. CJCSM 6120.01, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard
5. https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
5. CJCSI 6232.01, Link 16 Spectrum Deconfliction
7. MCRP 3-25E, MTTP for an Integrated Air Defense System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

5.13  INSTRUCTOR UNDER TRAINING (IUT) (5000)

5.13.1  Purpose.  To provide technicians the additional skills necessary to instruct, evaluate and approve event completions.  Upon completion of the required training, an individual may be approved for instructor designation by the commanding officer.

5.13.2  General.

5.13.2.1  Prerequisiste. None

5.13.2.2  Admin Notes.

a.  The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to the concepts of managing a WTTP, properly conducting training, performing evaluations, and recommending training plans.

b.  There are different instructor designations (listed below).  The intent is to train individuals with different levels and areas of experience to instruct personnel.  Instructor experience is also gained while progressing through the different instructor designations.

(1) Basic Instructor (BI)

(2) Senior Instructor (SI)

(3) Weapons and Tactics Instructor (WTI)

(4) The MAWTS-1 C3 Course catalog contains the training requirements for the above listed instructors.  The catalog is located at the MAWTS-1 website,
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx.

(5) The table below outlines the events that each instructor can train, evaluate, and approve or recommend for approval.

| INSTRUCTOR | Event Training, Evaluation and Approval |
|---|---|
| BI | Core Skill events in which current and proficient |
| SI | Core Skill and Mission Skill events |
| WTI | Mission Skill and Qualification events.<br>-  Evaluate and recommend for qualification<br>-  Endorse recommendations for position designations |
|  | The Commanding Officer is the approving authority for qualifications and designations. |

5.13.3.3  Stages.  The following stages are included in the Instructor Under Training Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 5.13.3  | INSTRUCTOR UNDER TRAINING (IUT) |

5.13.3  INSTRUCTOR UNDER TRAINING (IUT) STAGE

5.13.3.1  Purpose.  To train Aviation Radar Maintenance Officers in the fundamentals of instructing and training processes.

5.13.3.2  General

       Prerequisite.  None

       Admin Notes.  None

       Crew Requirements.  None

| T&R CODE | EVENT DESCRIPTION | INSTRUCTOR |
|----------|-------------------|------------|
| 5000 | Introduce principles of instruction | BI |
| 5010 | Understand the structure of an event | BI |
| 5020 | Conduct a period of instruction on a core skill event | BI |
| 5100 | Understand the Aviation Training and Readiness (T&R) Program | SI |
| 5110 | Understand the applicable community T&R program | SI |
| 5120 | Understand T&R administration | SI |
| 5130 | Develop a training plan | SI |
|  |  |  |

IUT-5000          *

       Goal.  Introduce principals of instruction

       Requirement.
       Performance Standard.  N/A

       Instructor.  SI

       Prerequisite.  None

       Ordnance.  None

       Range.  None

       External Syllabus Support.  None

       Reference.

IUT-5010          *

       Goal.  Describe individual T&R requirements

       Requirement.

Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.


IUT-5020                    *

Goal. Conduct T&R instruction

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.


IUT-5100                    *

Goal. Describe the Aviation Training and Readiness (T&R) Program

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.


IUT-5110                    *

Goal. Conduct instructor evaluations

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

IUT-5120            *

Goal. Perform T&R administration

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

IUT-5130            *

Goal. Develop a training plan

Requirement.
Performance Standard. N/A

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

5.14 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000)

5.14.1 Purpose. This phase provides community standardization for MACCS Warrant Officer certifications and designations; combat leaders and instructor designations. This syllabus does not contain "one time" certification training requirements.

5.14.2 General.

5.14.2.1 Prerequisiste. None

5.14.2.2 Admin Notes.

(1) This section enables units to document and track combat leaders, instructors, technician and CD assignments. All syllabus training and administration requirements must be complete prior to being qualified or designated. A qualification or designation is not effective until all administration is completed.

(2) Only once an individual is qualified or designated in writing, the signed letter is filed in the IPR, and all administrative actions are completed, and the event code has been logged in M-SHARP shall the qualification or designation be effective.

5.14.2.3 Stages. The following stages are included in the Instructor Under Training Skill Phase of training.

| PAR NO. | STAGE NAME |
|---------|------------|
| 5.14.3 | CERTIFICATIONS (CERT) |
| 5.14.4 | DESIGNATION (DESG) |
| 5.14.5 | SCHOOL CODES (SCHL) |

5.14.3 CERTIFICATIONS (CERT) STAGE

5.14.3.1 Purpose. To provide for certifications of Information Assurance Work Force personnel. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a certification are current prior to approving that certification. If prerequisite R-coded events are delinquent, the individual shall update those events.

5.14.3.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining certification are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. NONE.

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CERT-6260   4.0   *     B                           L

      Goal.  COMPTIA A+ Certified.

      Requirement.  Complete the required industry certification exam.  Be
      recommended for certification by an SI or WTI and approved in writing
      by the commanding officer.
```

Performance Standard.  Complete requirements in accordance with the reference.

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DoD 8570.01M


CERT-6261   4.0   *   B                      L

Goal.  COMPTIA Network+ Certified.

Requirement.  Complete the required industry certification exam.  Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard.  Complete requirements in accordance with the reference.

Prerequisite.

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DoD 8570.01M


CERT-6262   4.0   *   B                      L

Goal.  COMPTIA Security+ Certified.

Requirement.  Complete the required industry certification exam.  Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard.  Complete requirements in accordance with the reference.

Prerequisite.

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DoD 8570.01M

5.14.4   DESIGNATIONS (DESG)

5.14.4.1   Purpose.  To provide for designation of combat leaders and instructors. Designations are command specific and expire when an individual transfers out of a command. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a designation are current prior to approving that designation. If prerequisite R- coded events are delinquent, the individual shall update those events.

5.14.4.2   General

Prerequisite.  None

Admin Notes.     Policies and rules for attaining and maintaining certifications are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements.  None

DESG-6250          0      B

Goal.  Designation as Information Assurance Technician Level I (IAT I)

Requirement.  Complete the requirements to attain Information Assurance Technician Level I in accordance with the current cybersecurity references.

Performance Standard.  Complete requirements in accordance with the reference.

Instructor.  WTI

Prerequisite.  None

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  DOD 8570.01-M
2.  DOD Directive 8140.01
3.  http://iase.disa.mil

DESG-6251          0      B

Goal.  Designation as Information Assurance Technician Level II (IAT II)

Requirement.  Complete the requirements to attain Information Assurance Technician Level II in accordance with the current cybersecurity references.

Performance Standard.  Complete requirements in accordance with the reference.

<u>Instructor.</u>  WTI

<u>Prerequisite.</u>  None

<u>Ordnance.</u>  None

<u>Range.</u>  None

<u>External Syllabus Support.</u>  None

<u>Reference.</u>
1. DOD 8570.01-M
2. DOD Directive 8140.01
3. http://iase.disa.mil

DESG-6253                0          B

<u>Goal.</u>  Designation as Information Assurance Manager Level I (IAM I)

<u>Requirement.</u>  Complete the requirements to attain Information Assurance Manager Level I in accordance with the current cybersecurity references.

<u>Performance Standard.</u>  Complete requirements in accordance with the reference.

<u>Instructor.</u>  WTI

<u>Prerequisite.</u>  None

<u>Ordnance.</u>  None

<u>Range.</u>  None

<u>External Syllabus Support.</u>  None

<u>Reference.</u>
1. DOD 8570.01-M
2. DOD Directive 8140.01
3. http://iase.disa.mil

DESG-6320        1.0        *          B                                                                L

<u>Goal.</u>  Designation as a Basic Instructor (BI).

<u>Requirement.</u>  Be recommended for designation by a WTI and designated in writing by the commanding officer.

<u>Performance Standard.</u>  N/A

<u>Instructor.</u>  WTI

<u>Prerequisite.</u>  5000, 5010, 5020

<u>Ordnance.</u>  None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 3500.14


DESG-6321        1.0        *        B                                                              L

Goal. Designation as a Senior Instructor (SI).

Requirement. Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 5000, 5010, 5020, 5100, 5110, 5120, 5130

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 3500.14

DESG-6322        1.0        *        B                                                              L

Goal. Designation as a WTI

Requirement.
Performance Standard. N/A

Instructor. WTI

Prerequisite. 6000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 3500.14

DESG-6520                    0

Goal. Designation as the Data Systems Maintenance Officer, (DSMO) DASC

Requirement.

Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2000, 2002, 2003, 2004, 2005, 2006, 2007, 2022, 2023, 2040, 2042, 2043, 2044, 2045, 2046, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2800, 2801, 2802, 2803, 2805, 2806, 2808, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 3000, 3003, 3020, 3022, 3023, 3024, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 8000, 8020, 8040, 8060, 8080

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

DESG-6563                0

Goal.  Designation as a Tactical Data Systems Administrator Maintenance Chief (TDSAMC), DASC

Requirement.
Performance Standard.  N/A

Instructor.  WTI

Prerequisite.  2000, 2001, 2002, 2003, 2005, 2006, 2020, 2021, 2022, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2800, 2801, 2802, 2803, 2805, 2806, 2808, 2809, 2815, 2816, 2818, 2819, 2823, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 3000, 3001, 3003, 3020, 3021, 3022, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3144, 3145, 3146, 3147, 3148, 8000, 8020, 8040, 8060, 8080

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.

5.14.5  SCHOOL CODES (SCHL) STAGE

5.14.5.1  Purpose.  To provide tracking codes for schools that are pertinent to the training of the 5910 in the skill progression of the Marine.

5.14.5.2  General

Prerequisite.  None

Admin Notes. Policies and prerequisites for attending the listed schools are maintained within MCTIMS.

Crew Requirements. None

| SCHL CODE | NAME OF COURSE | LOCATION | CID |
|-----------|----------------|----------|-----|
| SCHL-6000 | Weapons and Tactics Instructor (WTI) | MCAS Yuma, AZ | M14P2A1 |

SCHL-6000                *

Goal. Complete the WTI Course

Requirement.
Performance Standard. N/A

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

5.15 MISSION ESSENTIAL TASK (MET) PHASE (7000)

5.15.1 Purpose. This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

5.15.2 General

5.15.3 Admin Notes. Prerequisites for this phase of training cannot be waived. Multiple events can be trained at the same time as long as separate evaluations are being conducted.

5.15.4 Prerequisite. Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase. For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

5.15.5 Stages. The following stages are included in the Mission Essential Task (MET) Phase of training.

| MISSION ESSENTIAL TASK (MET) PHASE | | |
|-----------------------------------|----|----|
| STAGE | PARAGRAPH | PAGE NUMBER |
| CONDITION (COND) | 5.12.3 | 5-125 |

5.15.6 CONDITION (COND) STAGE

5.15.6.1 Purpose. To train unit level teams in executing community specific MET(s) or MET preparatory events.

5.15.6.2 General

Admin Notes. All events in this stage will require the following administrative/operational documents to be identified or created:

       1. Letter Of Intent (LOI)
       2. Personnel Roster

3. Bill of Material (BOM)
4. Equipment Density List (EDL)

Prerequisite.  If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Crew Requirements.

COND-7400     3.0     730     B, R, M                                                      L/S

Goal.  Employ an ASLT.

Requirement.  Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a ASLT to include the following:

1. Plan for Employment of a ASLT:
   a. Conduct Problem Framing.
      (1) Identify Level of Support Required of MASS Unit.
      (2) Develop Mission Statement / Commander's Intent.
   b. Create Employment Plan.
      (1) Coordinate with External Entities (and / or Agencies).
      (2) Identify Required Personnel and Equipment.
      (3) Conduct Site Reconnaissance and Selection.
      (4) Identify and Coordinate External Support Requirements.
   c. Create Supporting Planning Products.
      (1) Create / Publish POA&M / LOI.
      (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
      (3) Conduct Required Briefs. (IPC/MPC, Confirmation Brief, etc.)
2. Deploy an ASLT:
   a. Conduct Movement.
      (1) Conduct Embarkation (Unit to APOE).
      (2) Conduct Convoy Operations (APOD to TAA to tactical site).
   b. Establish ASLT Site.
      (1) Establish and Maintain Site Security.
      (2) Establish Communications and Connectivity.
      (3) Establish Administrative and Logistics Functions.
3. Operate an ASLT:
   A. Conduct ASLT Operations.
4. Sustain an ASLT:
   a. Conduct Staff Functions.
      (1) Conduct Administrative Functions.
      (2) Conduct Intelligence Functions.
      (3) Conduct Operations and Training.
      (4) Conduct Logistical Functions.
      (5) Conduct Communications Functions.
5. Re-Deploy an ASLT:
   a. Plan for Re-Deployment.
      (1) Identify Logistics Requirements.
      (2) Identify External Support Requirements.
      (3) Identify Maintenance functions and Requirements.
      (4) Identify Administration Requirements and Functions.
   b. Conduct Movement
      (1) Conduct Convoy Operations. (Tactical Site to TAA to APOE).
      (2) Conduct Embarkation (APOD to the unit).

Performance Standard.  Perform the requirement items listed and conduct ASLT operations supporting the DASC during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.  (1) CMMR ASLT Crew.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  FSCC, air and fire support missions as defined by operational tempo level three, a DASC, S-1, S-2, S-3, S-4, S-5.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  Squadron SOP

COND-7405        3.0        730        B, R, M                                                      L/S

Goal.  Employ an ASE.

Requirement.  Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a ASE to include the following:

1. Plan for Employment of a ASE:
    a. Conduct Problem Framing.
        (1) Identify Level of Support Required of MASS Unit.
        (2) Develop Mission Statement / Commander's Intent.
    b. Create Employment Plan.
        (1) Coordinate with External Entities (and / or Agencies).
        (2) Identify Required Personnel and Equipment.
        (3) Conduct Site Reconnaissance and Selection.
        (4) Identify and Coordinate External Support Requirements.
    c. Create Supporting Planning Products.
        (1) Create / Publish POA&M / LOI.
        (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
        (3) Conduct Required Briefs. (IPC/MPC, Confirmation Brief, etc.)
2. Deploy an ASE:
    a. Conduct Movement.
        (1) Conduct Embarkation (Unit to APOE).
        (2) Conduct Convoy Operations (APOD to TAA to tactical site).
    b. Establish ASE Site.
        (1) Establish and Maintain Site Security.
        (2) Establish External ASE Infrastructure.
        (3) Establish Internal ASE Infrastructure.
        (4) Establish Communications and Connectivity.
        (5) Establish Administrative and Logistics Functions.
3. Operate an ASE:
    a. Conduct ASE Operations.
        (1) Process Immediate Air Support Requests.
        (2) Integrate Aircraft Employment with Other Supporting Arms.
        (3) Manage Terminal Control Assets.
        (4) Procedurally Control Aircraft within Assigned Area of Operations.
4. Sustain an ASE:
    a. Conduct Staff Functions.

      (1) Conduct Administrative Functions.
      (2) Conduct Intelligence Functions.
      (3) Conduct Operations and Training.
      (4) Conduct Logistical Functions.
      (5) Conduct Communications Functions.
5. Re-Deploy an ASE:
   a. Plan for Re-Deployment.
      (1) Identify Logistics Requirements.
      (2) Identify External Support Requirements.
      (3) Identify Maintenance functions and Requirements.
      (4) Identify Administration Requirements and Functions.
   b. Conduct Movement
      (1) Conduct Convoy Operations. (Tactical Site to TAA to APOE).
      (2) Conduct Embarkation (APOD to the unit).

Performance Standard. Perform the requirement items listed and conduct ASE operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. (1) CMMR ASE Crew.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, air and fire support missions as defined by operational tempo three, FFCC/FSCC, and if required, a SACC and NTACC/HCS.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7410    3.0    730    B, R, M                                          L/S

Goal. Employ a DASC.

Requirement. Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a DASC to include the following:

1. Plan for Employment of a DASC:
   a. Conduct Problem Framing.
      (1) Identify Level of Support Required of MASS Unit.
      (2) Identify Potential Need for DASC Extensions.
      (3) Develop Mission Statement/ Commander's Intent.
   b. Create Employment Plan.
      (1) Coordinate With External Entities (and / or Agencies).
      (2) Identify Required Personnel and Equipment.
      (3) Conduct Site Reconnaissance and Selection.
      (4) Identify and Coordinate External Support Requirements.
      (5) Plan for any/all required DASC Extensions.
   c. Create Supporting Planning Products.
      (1) Create / Publish POA&M / LOI.
      (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
      (3) Conduct Required Briefs (IPC/MPC, Confirmation Brief, etc.).
2. Deploy a DASC:

a. Conduct Movement.
   (1) Conduct Embarkation (Unit to APOE).
   (2) Conduct Convoy Operations (APOD to TAA to tactical site).
b. Establish DASC Site.
   (1) Establish and Maintain Site Security.
   (2) Establish External DASC Infrastructure.
   (3) Establish Internal DASC Infrastructure.
   (4) Establish Communications and Connectivity.
   (5) Establish Administrative and Logistics Functions.
3. Operate a DASC:
   a. Conduct DASC Operations.
      (1) Process Immediate Air Support Requests.
      (2) Integrate Aircraft Employment with Other Supporting Arms.
      (3) Manage Terminal Control Assets.
      (4) Procedurally Control Aircraft within Assigned Area of Operations.
   b. Manage DASC extensions.
4. Sustain a DASC:
   a. Conduct Staff Functions.
      (1) Conduct Administrative Functions.
      (2) Conduct Intelligence Functions.
      (3) Conduct Operations and Training.
      (4) Conduct Logistical Functions.
      (5) Conduct Communications Functions.
5. Re-Deploy a DASC:
   a. Plan for Re-Deployment.
      (1) Identify Logistics Requirements.
      (2) Identify External Support Requirements.
      (3) Identify Maintenance functions and Requirements.
      (4) Identify Administration functions and Requirements.
   b. Conduct Movement.
      (1) Conduct Convoy Operations (Tactical Site to TAA to APOE).
      (2) Conduct Embarkation (APOD to the unit).

Performance Standard.  Perform the requirement items listed and conduct DASC operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.  Two (2) CMMR DASC crews.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7415      3.0      730      B, R, M                                                    L/S

Goal.  Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the DASC.

Requirement.  Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operations order/initiating directive, conduct a RSOP for DASC operations to include the following:

1. Conduct a Map Survey selecting primary and alternate sites.
2. Identify environmental concerns that may affect DASC communication.
3. Coordinate with the FSCC to provide DASC requirements.
4. Coordinate site security, camouflage, dispersion, and trafficability.
5. Identify locations for emplacement of communications and support equipment.
5. Coordinate priorities for equipment emplacement.
7. Identify echelon considerations.
8. Identify Advanced Party/RSOP Team.
9. Occupy the site.
10. Emplace the DASC.

Performance Standard. Perform the requirement items. The RSOP team will be prepared to discuss decisions/actions.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. MASS Detachment Commander, DASC Chief, security team, Representatives from the following sections: S-4, S-2, S-5.

Reference.
1. MCWP 3-15.3, TTP for the Field Artillery Cannon Battery
2. MCWP 3-25.5, DASC Handbook
3. MCWP 3-15.3, Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
4. Squadron SOP

COND-7420    3.0    730    B, R, M                                    L/S

Goal. Conduct Echelon Operations.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operations order/initiating directive, conduct echelon operations to include the following:

1. Continue DASC operations without pause or loss of situational awareness.
2. Checklists for the transfer of control are on hand and are utilized.
3. Deploy the echelon element to the new position.
4. Brief the operational crew concerning their duties for passage of control.
5. Establish and maintain required communications and connectivity.
5. Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted.
7. Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place.
8. Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft is verified.
9. Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft is verified.
10. Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand.
11. Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for

naval gunfire assets.
12. Maintain continuous coordination with adjacent and higher agencies during preparation for and transfer of OAS/AS control, if required.
13. Pass control of DASC functions to the echelon element.
14. Notify the TACC, FSCC, and other agencies, as necessary, control has been passed.
15. Recover the rear element into the DASC when echelon operations have concluded.
15. Debrief with the DASC OIC and DASC Chief.

Performance Standard. Perform the requirement items listed to conduct echelon operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. Two (2) CMMR DASC crews.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7425        3.0        730        B, M, R                                                        S/L

Goal. Conduct Phasing of Control Ashore.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operations order/initiating directive, conduct phasing of control ashore to include the following:

1. Conduct a Map Survey selecting primary and alternate sites.
2. Checklists for the transfer of control ashore are on hand and utilized.
3. Review the procedures delineated in the operation plan/other directives for the phasing of control ashore and keeps the Naval Tactical Air Control Center informed of current status.
4. Deploy ashore.
5. Brief the operational crew concerning their duties for the passage of control.
5. Establish and maintain required communications and connectivity.
7. Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted.
8. Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place.
9. Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft.
10. Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft.
11. Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand.
12. Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets.
13. Ensure all requirements have been met and then advise the TACC (afloat) and FSCC that the DASC is prepared for the phasing of control of OAS/AS ashore.
14. Ensure the preplanned sequence of phasing control of OAS/AS ashore is completed and the SAD acknowledges/produces any reports required.

15.  Advise CLF when ready to assume control of all or a portion of direct air support ashore (specify OAS, Assault Support, Air Recce, EW) at a specified date and time.

15.  Advise CLF that control has been transferred and the date/time group that transfer was accomplished.

17.  Advise the TACC (afloat)/TADC (ashore) and FSCC that the DASC now has control referencing date and time (local).

18.  Maintain continuous coordination with adjacent and higher agencies.

19.  Notify all adjacent agencies when transfer of control is completed.

20.  As necessary, DASC/SACC liaison team provides further updates of information upon arrival at DASC site.

Performance Standard.  Perform the requirement items listed to conduct phasing control ashore during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.  (1) CMMR ASE crew or (1) CMMR DASC crew.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, Navy TACC, FSCC, Marine TACC, LFOC, SACC/HCS.

Reference.
1.  JP 3-02.1, Joint Doctrine for Landing Forces Operations
2.  MCWP 3-15.3, Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
3.  MCWP 3-25.5, DASC Handbook
4.  MCWP 3-40.3, MAGTF Communications System
5.  Squadron SOP


5.16  AVIATION CAREER PROGRESSION MODEL (8000).

5.16.1  Purpose.  To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

> Marine Air Command and Control System (MACCS)
> Aviation Ground Support
> Joint Air Operations
> ACE Battle Staff
> MAGTF
> Seabased Operations
> Combatant Commander Organizations

5.16.2  General.  The ACPM is intended to be an integrated series of academic events contained within each phase of training.  Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages.  Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction.  In the future, courses may be consolidated or revised to meet changing requirements.  Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/Aviation%20Career%20Progression%20Model/Forms/All Items.aspx

Completed events shall be manually logged and tracked in M-SHARP.

ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

| STAGE | TRNG CODE | T&R DESCRIPTION | | ACAD TIME | TO BE COMPLETED DURING |
|-------|-----------|-----------------|---|-----------|------------------------|
| ACPM | 8000 | **MACCS** | | 1 | 2000 PHASE |
| ACPM | 8001 | MARINE AIR COMMAND AND CONTROL SYSTEM | | 4 | 2000 PHASE |
| ACPM | 8002 | TACTICAL AIR COMMAND CENTER (TACC) | | 4 | 2000 PHASE |
| ACPM | 8003 | DIRECT AIR SUPPORT CENTER (DASC) | | 4 | 2000 PHASE |
| ACPM | 8004 | TACTICAL AIR OPERATIONS CENTER (TAOC) | | 4 | 2000 PHASE |
| ACPM | 8005 | MARINE AIR TRAFFIC CONTROL (MATC) | | 4 | 2000 PHASE |
| ACPM | 8006 | LOW ALTITUDE AIR DEFENSE (LAAD) | | 4 | 2000 PHASE |
| ACPM | 8007 | Marine Unmanned Aerial Vehicle Squadron (VMU) | | 4 | 2000 PHASE |
| ACPM | 8008 | MARINE WING COMMUNICATION SQUADRON (MWCS) | | 4 | 2000 PHASE |
| ACPM | 8020 | **ACE** | | 1 | 2000 PHASE |
| ACPM | 8021 | AVIATION OPERATIONS | | 4 | 2000 PHASE |
| ACPM | 8022 | CONTROL OF AIRCRAFT AND MISSILES | | 4 | 2000 PHASE |
| ACPM | 8023 | OFFENSIVE AIR SUPPORT (OAS) | | 4 | 2000 PHASE |
| ACPM | 8024 | ASSAULT SUPPORT | | 4 | 2000 PHASE |
| ACPM | 8025 | AIR RECONNAISSANCE | | 4 | 2000 PHASE |
| ACPM | 8026 | ELECTRONIC WARFARE | | 4 | 2000 PHASE |
| ACPM | 8027 | ANTI-AIR WARFARE | | 4 | 2000 PHASE |
| ACPM | 8028 | AVIATION GROUND SUPPORT | | 4 | 2000 PHASE |
| ACPM | 8040 | **THREAT** | | 1 | 3000 PHASE |
| ACPM | 8041 | SURFACE TO AIR THREAT TO THE MAGTF | | 4 | 3000 PHASE |
| ACPM | 8042 | FIXED WING THREAT TO THE MAGTF | | 4 | 3000 PHASE |
| ACPM | 8043 | ROTARY WING THREAT TO THE MAGTF | | 4 | 3000 PHASE |
| ACPM | 8044 | MISSILE AND UAS THREAT TO THE MAGTF | | 4 | 3000 PHASE |
| ACPM | 8060 | **MAGTF** | | 1 | 4000 PHASE |
| ACPM | 8061 | GROUND COMBAT OPERATIONS | | 4 | 4000 PHASE |
| ACPM | 8062 | FIRE SUPPORT COORDINATION IN THE GCE | | 4 | 4000 PHASE |
| ACPM | 8063 | MAGTF COMMAND AND CONTROL | | 4 | 4000 PHASE |
| ACPM | 8064 | MAGTF COMMUNICATIONS | | 4 | 4000 PHASE |
| ACPM | 8065 | PHASING CONTROL ASHORE | | 4 | 4000 PHASE |
| ACPM | 8066 | INFORMATION MANAGEMENT | | 4 | 4000 PHASE |
| ACPM | 8067 | UAS SUPPORT OF THE MAGTRF | | 4 | 4000 PHASE |
| ACPM | 8080 | **JOINT AIR OPERATIONS** | | 1 | 4000 PHASE |
| ACPM | 8081 | COMMAND AND CONTROL OF JOINT AIR OPERATIONS | | 4 | 4000 PHASE |
| ACPM | 8082 | THEATER AIR CROUND SYSTEM (TAGS) | | 4 | 4000 PHASE |

| ACPM | 8083 | JOINT FIRE SUPPORT | | 4 | 4000 PHASE |
|------|------|--------------------|---|---|------------|
| ACPM | 8084 | CLOSE AIR SUPPORT | | 4 | 4000 PHASE |
| ACPM | 8085 | JOINT TARGETING | | 4 | 4000 PHASE |
| ACPM | 8086 | NORTH ATLANTIC TREATY ORGANIZATION (NATO) | | 4 | 4000 PHASE |
| ACPM | 8087 | JOINT AIRSPACE CONTROL | | 4 | 4000 PHASE |
| ACPM | 8088 | COUNTERING AIR AND MISSILE THREATS | | 4 | 4000 PHASE |
| TOTAL ACPM STAGE | | | 40 | 145 | |

5.17  T&R SYLLABUS MATRIX

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | N O T E S | C H A I N | EVE NT CO NV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO DE | TITLE | | | T Y P E | # | O P T I O N | | | # | TIM E | # | TIM E | # | TIM E | | | | |
| CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS) |
| 59CM | 1500 | Describe the characteristics of the Marine Air Command and Control System (MACCS). | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1501 | Measure circuit performance. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1502 | Establish secure RF communications using radios within the MACCS. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1503 | Manage UNIX based systems. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1504 | Provide cyberwarfare technical support for MACCS specific equipment. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1505 | Repair common cables. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| 59CM | 1506 | Demonstrate an earth ground installation. | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| colspan=9 | TOTAL CORE INTRODUCTION STAGE (1000 PHASE EVENTS) | 7 | 0 | 0 | | 0 | | 0 | | | | |
| CORE SKILLS TRAINING (2000 PHASE EVENTS) |
| SECURITY (SEC) |
| SEC | 2000 | Describe proper handling and storage of classified materials. | B,R,M | | L | - | - | - | 365 | | 0 | | 0 | | 2 | - | - | - | - |
| SEC | 2002 | State the physical security requirements for classified areas. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| SEC | 2003 | Extract key material information from EKMS/KMI COMSEC callout. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2000 | - | - | - |
| SEC | 2004 | Create a classified area physical security diagram. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2000,2002 | - | - | - |
| SEC | 2005 | Ensure classified material handling procedures are followed. | B,M | | L | - | - | - | * | | 0 | | 0 | | 3 | 2000 | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | | | |
| SEC | 2006 | Configure the Link Management System Multi Tactical Data Link (LMS-MT) | B | | L | - | - | - | * | | 0 | | 0 | | 4 | 2000 | - | - | - |
| TOTAL SECURITY STAGE (SEC) | | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 17 | | | | |
| FAMILIARIZATION (FAM) | | | | | | | | | | | | | | | | | | | |
| FAM | 2022 | Describe the characteristics of unit T/E generators. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| FAM | 2023 | Describe TACLANE | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| TOTAL FAMILIARIZATION STAGE (FAM) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 8 | | | | |
| COMPUTER AND NETWORK TRAINING (CANT) | | | | | | | | | | | | | | | | | | | |
| CANT | 2040 | Explain application, data, and host security. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2042 | Explain Network Security | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2043 | Explain Network Operational Security. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2044 | Explain threats and vulnerabilities. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2045 | Explain computer and network cryptography. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| CANT | 2046 | Explain access control and identity management security measures. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| TOTAL COMPUTER AND NETWORK STAGE (CANT) | | | | | | | | | | 0 | 0 | 0 | 0 | 6 | 26 | | | | |
| COLLATERAL DUTY (CD) | | | | | | | | | | | | | | | | | | | |
| CD | 2060 | Identify the Maintenance Calibrations program. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2100 | - | - | - |
| CD | 2061 | Identify the Maintenance Modification program. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2062 | Manage the Tool Control program. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2063 | Identify the Maintenance Publication Library | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |

DASC MAINTENANCE MOS 5970 T&R SYLLABUS MATRIX

Enclosure (1)

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |
|| | DASC MAINTENANCE MOS 5970 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | |
| CD | 2064 | Identify major Maintenance Safety Program elements. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2065 | Identify the key elements of the Maintenance Embarkation Program. | B | | L | - | - | - | * | | 0 | | 0 | | 3 | 2100 | - | - | - |
| CD | 2066 | Identify the equipment record jacket. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2100 | - | - | - |
| CD | 2067 | Identify Quality Control Procedures. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| CD | 2068 | Identify the Maintenance Training program. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2100 | - | - | - |
| TOTAL COLLATERAL DUTY STAGE (CD) | | | | | | | | | | 0 | 0 | 0 | 0 | 9 | 17 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | | | | | | | | | | |
| MMGT | 2100 | Complete Maintenance Management Program indoctrination training. | B | | G | - | - | - | * | | 40 | | 0 | | 0 | - | - | - | - |
| MMGT | 2101 | Conduct an SL-3 inventory. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2102 | Initiate a service request. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| MMGT | 2103 | Create a Preventive Maintenance Checks and Services (PMCS) schedule. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| MMGT | 2104 | Submit a Product Quality Deficiency Report (PQDR) | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2105 | Identify the SECREP management process. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2102 | - | - | - |
| MMGT | 2106 | Explain equipment disposition procedures. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | 2101, 2102 | - | - | - |
| MMGT | 2107 | Reconcile Global Combat Support System (GCSS) reports. | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| MMGT | 2108 | Verify inventory control procedures are implemented. | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2102 | - | - | - |

| STAGE | CODE | EVENT TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DASC MAINTENANCE MOS 5970 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | |
| MMGT | 2110 | Identify the Marine Corps Urgent Needs Process (MCUNP) | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2111 | Induct new equipment into service. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2112 | Identify the types of funds. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| MMGT | 2113 | Identify the requirement for a Demand Supported Items (DSI) | B | | L | - | - | - | * | | 0 | | 0 | | 6 | - | - | - | - |
| MMGT | 2114 | Develop a maintenance section budget. | B | | L | - | - | - | * | | 0 | | 0 | | 6 | - | - | - | - |
| MMGT | 2115 | Submit a Table of Organization and Equipment Change Request (TOECR). | B | | L | - | - | - | * | | 0 | | 0 | | 6 | - | - | - | - |
| MMGT | 2116 | Conduct a Consolidated Memorandum Reciept (CMR) Review. | B | | L | - | - | - | * | | 0 | | 0 | | 6 | - | - | - | - |
| MMGT | 2117 | Submit a Using Unit Responsibility Items (UURI) authorization request letter. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| MMGT | 2118 | Submit a maintenance cycle time extension leter. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| TOTAL MMGT STAGE (MMGT) | | | | | | | | | | 1 | 40 | 0 | 0 | 12 | 25 | | | | |
| DEPLOYMENT (DEPL) | | | | | | | | | | | | | | | | | | | |
| DEPL | 2130 | Write a packing list. | B,R | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2131 | Extract key information from communication planning documents. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2132 | Determine supply support requirements. | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 2133 | Identify power requirements. | B,R | | L | - | - | - | * | | 0 | | 0 | | 4 | 2022 | - | - | - |
| DEPL | 2134 | Fill out Logistics Support Request | B | | L | - | - | - | * | | 0 | | 0 | | 1 | - | - | - | - |
| DEPL | 2135 | Conduct a site survey. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2022, 2133 | - | - | - |

| STAGE | CODE | EVENT TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | DASC MAINTENANCE MOS 5970 T&R SYLLABUS MATRIX | | | | | | | | | |
| DEPL | 2136 | Write an Equipment Density List (EDL) | B | | L | - | - | - | * | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 2137 | Develop an embarkation plan. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | 2134, 2136 | - | - | - |
| DEPL | 2138 | Complete a Bill of Material (BOM) request. | B | | L | - | - | - | * | | 0 | | 0 | | 8 | 2132 | - | - | - |
| DEPL | 2139 | Describe common agency doctrinal nets. | B | | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| DEPL | 2140 | Identify spectrum management procedures. | B,R,M, | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2141 | Idenify communication service requirements. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2142 | Identify crew requirements and write a crew schedule. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| DEPL | 2143 | Develop data recovery management plan. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 2144 | Submit a Bill of material (BOM) request. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| TOTAL DEPLOYMENT STAGE (DEPL) | | | | | | | | | | 0 | 0 | 0 | 14 | | 54 | | | | |
| TACTICAL DATA LINKS (TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 2800 | Identify the purpose of documents that enable Tactical Data Link operations | B,M,R | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2801 | Identify TACC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2802 | Identify TAOC and EW/C voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2803 | Identify DASC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2805 | Identify LAAD voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | | | |
| TDL | 2806 | Identify MATC voice and data communications equipment. | B,R,M | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2808 | Describe the Joint Data Network | B,RM | | G | - | - | - | 1095 | | 10 | | 0 | | 0 | - | - | - | - |
| TDL | 2809 | Describe the Multi-Tactical Data Link (TDL) Interface. | B,R,M | | G | - | - | - | 1095 | | 20 | | 0 | | 0 | - | - | - | - |
| TDL | 2815 | State the Characteristics of Link | B | | G | - | - | - | 0 | | 10 | | 0 | | 0 | - | - | - | - |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
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| | | | | | DEVICE | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | | | |
| | | 11. | | | | | | | | | | | | | | | | | |
| TDL | 2816 | State the characteristics of Link 11B. | B | | G | - | - | - | 0 | | 10 | 0 | | | 0 | - | - | - | - |
| TDL | 2818 | State the characteristics of Link 15. | B | | G | - | - | - | 0 | | 30 | 0 | | | 0 | - | - | - | - |
| TDL | 2819 | State the characteristics f the Joint Range Extension Application Protocol (JREAP). | B | | G | - | - | - | 0 | | 20 | 0 | | | 0 | - | - | - | - |
| TDL | 2923 | State the characteristics of the Variable Messge Format(VMF). | B | | G | - | - | - | 0 | | 10 | 0 | | | 0 | - | - | - | - |
| TDL | 2826 | State the characteristcs of Cooperative Engagement Capability. | B | | G | - | - | - | 0 | | 10 | 0 | | | 0 | - | - | - | - |
| TOTAL TACTICAL DATA LINKS (TDL) | | | | | | | | | | 9 | 100 | 0 | 0 | 0 | 0 | | | | |
| TOTAL MISSION SKILL (2000 PHASE EVENTS) | | | | | | | | | | 88 | 140 | 0 | 0 | 0 | 189 | | | | |
| MISSION SKILL TRAINING (3000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| COMPUTER AND NETWORK TRAINING  (CANT) | | | | | | | | | | | | | | | | | | | |
| CANT | 3000 | Plan a Local Area Network | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |
| CANT | 3003 | Design network architecture. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2040, 2042, 2043, 2044, 2045, 2046 | - | - | - |
| TOTAL COMPUTER AND NETWORK TRAINING SKILLS STAGE (CANT) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 20 | | | | |
| MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | | | | | | | | | | |
| MMGT | 3020 | Ensure the corrective maintenance repair process is being conducted. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2100, 2101, 2102, 2103, 2104, 2105, 2107, 2108 | - | - | - |
| MMGT | 3022 | Validate SECREP assets in preparation for float re-computation conference. | B | | L | - | - | - | * | | 0 | | 0 | | 2 | 2102, 2105 | - | - | - |
| MMGT | 3023 | Assess maintenance shop performance. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2105, 2106, 2111, 2113, 2114, 2115, 2116, 2117, 2118 | - | - | - |
| MMGT | 3024 | Assess maintenance section funding requirement. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 2 | 2112 | - | - | - |
| TOTAL MAINTENANCE MANAGEMENT (MMGT) | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 24 | | | | |

DASC MAINTENANCE MOS 5970 T&R SYLLABUS MATRIX

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DASC MAINTENANCE MOS 5970 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | |
| DEPLOYMENT (DEPL) | | | | | | | | | | | | | | | | | | |
| DEPL | 3041 | Identify Operational Requirements. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142 | - | - | - |
| DEPL | 3042 | Develop disaster recovery plan. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | 2000, 2002, 2022, 2143 | - | - | - |
| DEPL | 3043 | Design a site layout | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 6 | 2000, 2002, 2004, 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140 | - | - | - |
| DEPL | 3044 | Develop a Communications Plan for a MACCS agency. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2139 | - | - | - |
| DEPL | 3045 | Plan for the deployment of Tactical Data Systems. | B,M,R | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| DEPL | 3046 | Develop a Communications Plan for the MACCS | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | - | - | - | - |
| DEPL | 3047 | Conduct post deployment analysis. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 8 | 2022, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2143, 3042 | - | - | - |
| DEPL | 3048 | Organize and staff crew for deployment. | B,R,M | | L | - | - | - | 1095 | | 0 | | 0 | | 4 | - | - | - | - |
| | TOTAL DEPLOYMENT (DEPL) | | | | | | | | | 0 | 0 | 0 | 0 | 8 | 52 | | | | |
| | TOTAL MISSION SKILL PHASE (3000 PHASE) | | | | | | | | | 18 | 0 | 0 | 0 | 0 | 116 | | | | |
| CORE PLUS SKILL TRAINING (4000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | |
| TDS REMOTE (TDSR) | | | | | | | | | | | | | | | | | | |
| TDL | 4820 | Identify mission essential segments, sets, and fields within the OPTASKLINK. | B | | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4821 | State the purpose of Interface Coordination | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |

| STAGE | EVENT | | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | procedures. | | | | | | | | | | | | | | | | | | |
| TDL | 4824 | Identify elements of Combat Net Radios (CNR) Networks. | B | | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4825 | Identify elements of the OPTASK LINK Combat Net Radios (CNR) Segment/Supplyment. | B | | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4849 | Conduct tactical data link planning for an agency. | B | | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4850 | Conduct tactical data link coordination for an agency. | B | | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4851 | Perform track data coordination for a track producing agency. | B | | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4852 | Perform Link Management Functions. | B | | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4853 | Perform as the Track Data coordinator. | B | | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4854 | Perform Interface Control Officer planning functions. | B | | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4855 | Perform Interface Control Officer execution functions. | B | | | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TOTAL TDL (TDL) SKILLS STAGE | | | | | | | | | | | 11 | 17 | 0 | 0 | 12 | 72 | | | | |
| TOTAL CORE PLUS SKILL PHASE (4000 PHASE) | | | | | | | | | | | 11 | 17 | 0 | 0 | 18 | 84 | | | | |
| TOTAL 2000, 3000, AND 4000 PHASE | | | | | | | | | | | 21 | 157 | 0 | 0 | 114 | 389 | | | | |
| INSTRUCTOR UNDER TRAINING (IUT) | | | | | | | | | | | | | | | | | | | | |
| IUT | 5000 | Instroduce principals of instruction. | - | | | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5010 | Describe individual T&R requirements. | - | - | | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5020 | Perform T&R administration. | - | - | | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5100 | Describe the Aviation Training & readiness | - | - | | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | DEVICE # | DEVICE OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | GROUND/ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Program. | | | | | | | | | | | | | | | | | |
| IUT | 5110 | Conduct instructor evaluation. | - | - | - | - | - | - | - | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5120 | Perform T&R administration. | - | - | - | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| IUT | 5130 | Develop a training plan. | - | - | - | - | - | - | - | | 0 | | 0 | | 0 | - | - | - | - |
| TOTAL INSTRUCTOR UNDER TRAINING (IUT) | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| DESIGNATIONS (DESG) | | | | | | | | | | | | | | | | | | | |
| DESG | 6250 | INFORMATION ASSURANCE TECHNICIAN LEVEL I (IAT I) (DESG 6250) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2064, 2100 | - | - | - |
| DESG | 6251 | INFORMATION ASSURANCE TECHNICIAN LEVEL II (IAT II) (DESG 6251) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2064, 2100 | - | - | - |
| DESG | 6253 | INFORMATION ASSURANCE MANAGER LEVEL I (IAT I) (DESG 6253) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2063, 2100 | - | - | - |
| DESG | 6320 | BASIC INSTRUCTOR (BI) (DESG 6320) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2062, 2100 | - | - | - |
| DESG | 6321 | SENIOR INSTRUCTOR (SI) (DESG 6321) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2060, 2100 | - | - | - |
| DESG | 6322 | WEAPONS AND TACTICS INSTRUCTOR (DESG 6322) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2061,2100 | - | - | - |
| DESG | 6520 | DATA SYSTEMS MAINTENANCE OFFICER (DESG 6520) | B | - | - | - | - | - | * | | 0 | | 0 | | 1 | 2065, 2100 | - | - | - |
| TOTAL DESIGNATIONS (DESG) | | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 7 | | | | |
| CERTIFICATION STAGE (CERTS) | | | | | | | | | | | | | | | | | | | |

| STAGE | EVENT | | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | N O T E S | C H A I N | EVE NT CO NV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO DE | TITLE | | | | T Y P E | # | O P T I O N | | | # | TIM E | # | TIM E | # | TIM E | | | | |
| CERT | 6260 | COMPTIA A+ Certification | B | - | L | - | - | - | | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| CERT | 6261 | COMPTIA Network+ Certification | B | - | L | - | - | - | | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| CERT | 6262 | COMPTIA Security+ Certification | B | - | L | - | - | - | | * | | 0 | | 0 | | 4.0 | - | - | - | - |
| TOTAL CERTIFICATION STAGE | | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 12.0 | | | | |

Table title: DASC MAINTENANCE MOS 5970 T&R SYLLABUS MATRIX

5.18  <u>ADDITIONAL MATRICES</u>.  None

5.19  <u>ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS</u>.  None

5.20  <u>AVIATION TRAINING FORMS (ATF)</u>.  A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3
website,

<u>https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx</u>

5.21  <u>TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM)</u>.  None

CHAPTER 6

AIR COMMAND AND CONTROL OFFICER MOS 7202
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

THIS CHAPTER RESERVED FOR FUTURE USE

CHAPTER 7

AIR SUPPORT CONTROL OFFICER (ASCO) MOS 7208
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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CHAPTER 7

AIR SUPPORT CONTROL OFFICER (ASCO) MOS 7208
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

7.0  <u>ASCO INDIVIDUAL TRAINING AND READINESS REQUIREMENTS</u>.  This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills.  The goal of this chapter is to develop individual and unit warfighting capabilities.

7.1  <u>ASCO TRAINING PROGRESSION MODEL</u>.  This model represents the recommended training progression for the average 7208 crew member.  Units should use the model as a point of departure to generate individual training plans.



7208 Career Progression Model
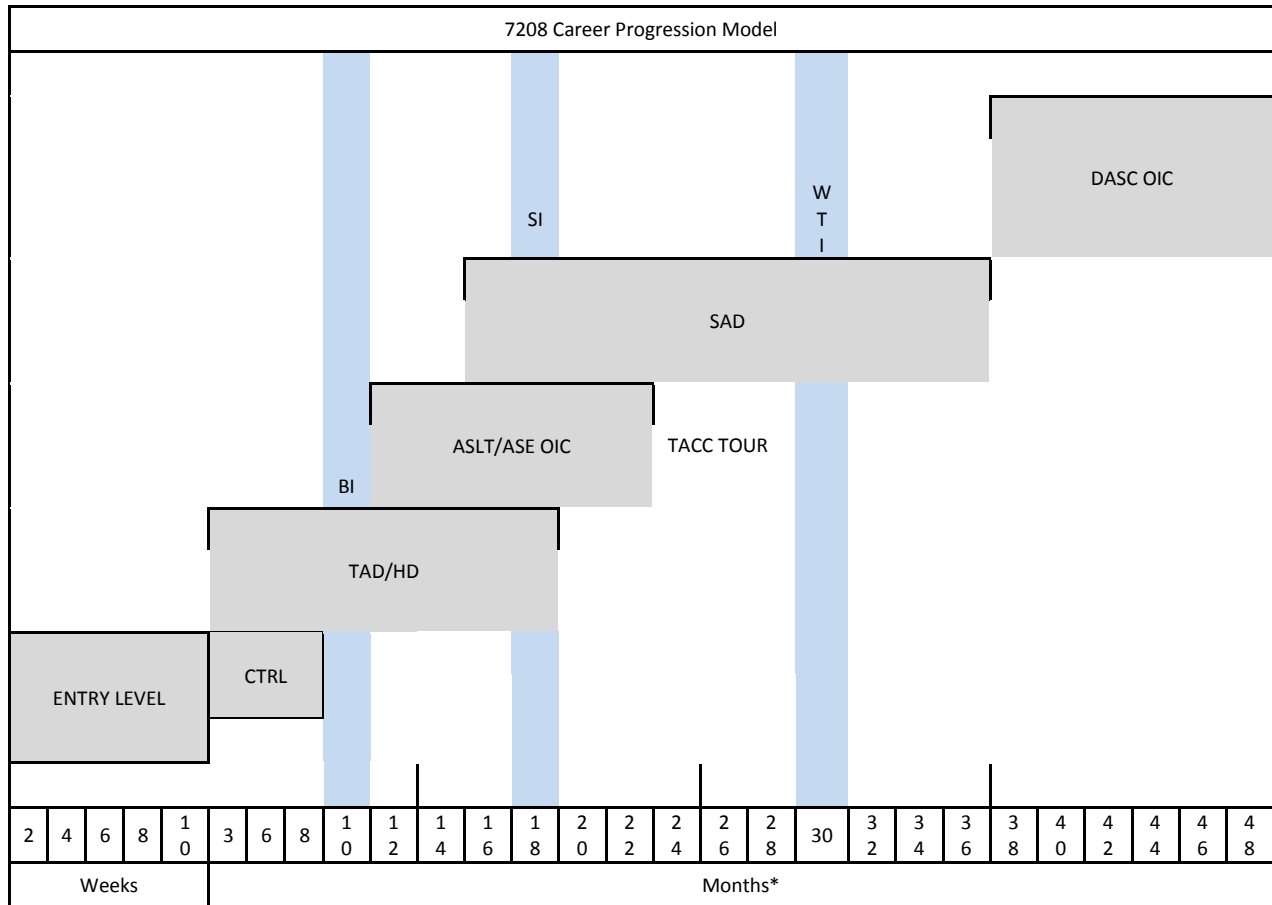
* Months indicated are training months, not calendar months.

7.2  <u>7208 PROGRAMS OF INSTRUCTION</u>

7.2.1  <u>BASIC POI</u>

| DASC 7208 BASIC POI | | |
|---|---|---|
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |

| 1-10 | CORE SKILL INTRODUCTION TRAINING | MCCES |
| 11-34 | CORE SKILL TRAINING | TACTICAL SQUADRON |
| 35-104 | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| 105-208 | CORE PLUS | TACTICAL SQUADRON |

7.2.2 <u>REFRESHER POI</u>

| DASC 7208 REFRESHER POI | | |
|---|---|---|
| WEEKS[1] | PHASE OF INSTRUCTION | UNIT RESPONSIBLE |
| VARIES | CORE SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | CORE PLUS | TACTICAL SQUADRON |

NOTE 1:  TRAINING DURATIONS VARIES BY POSITION BEING TRAINED.
SEE PROGRESSION MODEL FOR NOTIONAL TRAINING TIMES.

7.3 <u>INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS</u>

7.3.1  Management of individual CSP/MSP/CPMP serves as the foundation for developing proficiency requirements in DRRS.

7.3.2  Crew position proficiency, or core skill, is a "Yes/No" status assigned to a Marine based on their CMMR currency and proficiency.  When an individual attains and maintains crew position proficiency, the Marine is eligible to count towards Unit CMMR.

7.3.3  Proficiency is attained by individual Core/Mission/Core Plus skill where the training events for each skill are determined by POI assignment.

7.3.4  Once proficiency has been attained by Core/Mission/Core Plus Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the maintain table and in the "Maintain POI" column of the T&R syllabus matrix.  An individual maintains proficiency by individual Core/Mission/Core Plus Skill.

**\*Note\***
Individuals may be attaining proficiency in
some Core/Mission/Core Plus Skills while
maintaining proficiency in other
Core/Mission/Core Plus Skills.

7.3.5  Once proficiency has been attained, should one lose proficiency in an event in the "Maintain POI" column, proficiency can be re-attained by demonstrating proficiency in the delinquent event.  Should an individual lose proficiency in all events in the "Maintain POI" column by Core/Mission/Core Plus Skill, the individual will be assigned to the Refresher POI for that skill.  To regain proficiency for that Core/Mission/Core Plus Skill the individual must demonstrate proficiency in all R-coded events for that skill.

**\*Note\***
See NAVMC 3500.14D, Chapter 2 of the
Aviation Program Manual for amplifying

information on POI updating.

| DASC MOS 7208 | | | | | |
|---|---|---|---|---|---|
| ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI | | | | | |
| ATTAIN PROFICIENCY | | | | MAINTAIN | |
| BASIC POI | | REFRESHER POI | | PROFICIENCY | |
| STAGE | CODE | STAGE | CODE | STAGE | CODE |
| CORE SKILL (2000 Phase) | | | | | |
| ACAD | 2045 | ACAD | | ACAD | |
| | 2050 | | | | |
| | 2055 | | | | |
| | 2060 | | | | |
| | 2065 | | | | |
| COMM | 2115 | COMM | | COMM | |
| | 2120 | | | | |
| | 2130 | | | | |
| EQUIP | 2150 | EQUIP | | EQUIP | |
| | 2155 | | | | |
| | 2160 | | | | |
| | 2165 | | | | |
| | 2170 | | | | |
| ASE | 2200 | ASE | | ASE | |
| | 2205 | | | | |
| | 2210 | | | | |
| | 2215 | | | | |
| | 2220 | | | | |
| | 2225 | | | | |
| ASLT | 2250 | ASLT | | ASLT | |
| | 2255 | | | | |
| | 2260 | | | | |
| DOIC | 2300 | DOIC | | DOIC | |
| | 2305 | | | | |
| | 2310 | | | | |
| | 2315 | | | | |
| | 2320 | | | | |
| | 2325 | | | | |
| FAM | 2350 | FAM | | FAM | |
| | 2355 | | | | |
| | 2365 | | | | |
| | 2370 | | | | |
| | 2375 | | | | |

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|---|---|---|---|---|---|
| CTRL | 2400 | CTRL | | CTRL | |
| | S2405 | | | | |
| | 2410R | | 2410R | | 2410R |
| | 2415R | | 2415R | | 2415R |
| | 2420 | | | | |
| | 2425 | | | | |
| SAD | S2455 | SAD | | SAD | |
| | 2460 | | | | |
| | 2465 | | | | |
| | 2470 | | | | |
| | 2475 | | | | |
| TDL | 2800 | TDL | | TDL | |
| | 2803 | | | | |
| | 2808 | | | | |
| | 2809 | | | | |
| | 2811 | | | | |
| | 2812 | | | | |
| | 2813 | | | | |
| | 2814 | | | | |
| | 2817 | | | | |
| | 2818 | | | | |
| | 2819 | | | | |
| | 2820 | | | | |
| | 2822 | | | | |
| | 2823 | | | | |
| C2SYS | 2900R | C2SYS | 2900R | C2SYS | 2900R |
| | 2901R | | 2901R | | 2901R |
| | 2902R | | 2902R | | 2902R |
| | 2910R | | 2910R | | 2910R |
| | 2911R | | 2911R | | 2911R |
| | 2921R | | 2921R | | 2921R |
| | 2940R | | 2940R | | 2940R |
| **MISSION SKILL (3000 Phase)** | | | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| HD | 3000 | HD | | HD | |
| | 3005 | | | | |
| | 3010R | | 3010R | | 3010R |
| | 3015 | | | | |
| | 3020 | | | | |
| TAD | 3100 | TAD | | TAD | |
| | 3105 | | | | |

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|---|---|---|---|---|---|
| | 3110R | | 3110R | | 3110R |
| | 3115 | | | | |
| | 3120 | | | | |
| SAD | 3200 | SAD | | SAD | |
| | 3205 | | | | |
| | 3210R | | 3210R | | 3210R |
| | 3215 | | | | |
| | 3220 | | | | |
| | 3225 | | | | |
| | S3230R | | S3230R | | S3230R |
| | S3235 | | | | |
| | 3240 | | | | |
| ASLT | 3300R | ASLT | 3300R | ASLT | 3300R |
| ASE | 3350R | ASE | 3350R | ASE | 3350R |
| DOIC | 3400R | DOIC | 3400R | DOIC | 3400R |
| **CORE PLUS (4000 Phase)** | | | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| ASE | 4100 | ASE | | ASE | |
| SAD | 4150 | SAD | | SAD | |
| FAM | 4300 | FAM | | FAM | |
| | 4305 | | | | |
| | 4310 | | | | |
| | 4315 | | | | |
| | 4320 | | | | |
| TDL | 4801 | TDL | | TDL | |
| | 4802 | | | | |
| | 4804 | | | | |
| | 4805 | | | | |
| | 4806 | | | | |
| | 4807 | | | | |
| | 4810 | | | | |
| | 4815 | | | | |
| | 4816 | | | | |
| | 4821 | | | | |
| | 4824 | | | | |
| | 4825 | | | | |
| | 4826 | | | | |
| | 4828 | | | | |
| | 4830 | | | | |
| | 4832 | | | | |
| | 4834 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | 4836 | | | | | |
| | 4838 | | | | | |
| | 4840 | | | | | |
| | 4842 | | | | | |
| | 4843 | | | | | |
| | 4844 | | | | | |
| | 4845 | | | | | |
| | 4846 | | | | | |
| | 4847 | | | | | |
| | 4848 | | | | | |
| | 4849 | | | | | |
| | 4850 | | | | | |
| | 4851 | | | | | |
| | 4852 | | | | | |
| | 4853 | | | | | |
| | 4854 | | | | | |
| | 4855 | | | | | |
| | 4904 | | | | | |
| | 4905 | | | | | |
| | 4906 | | | | | |
| | 4907 | | | | | |
| | 4908 | | | | | |
| | 4909 | | | | | |
| | 4912 | | | | | |
| | 4913 | | | | | |
| C2SYS | 4914 | C2SYS | | C2SYS | | |
| | 4915 | | | | | |
| | 4916 | | | | | |
| | 4917 | | | | | |
| | 4920 | | | | | |
| | 4922 | | | | | |
| | 4924 | | | | | |
| | 4925 | | | | | |
| | 4941 | | | | | |
| "S" PREFIX AND BLUE FONT = SIMULATOR EVENT | | | | | | |
| "R" SUFFIX AND GREY HIGHLIGHT = R-CODED "REFRESHER" EVENT | | | | | | |

7.4 <u>REQUIREMENT, CERTIFICATION, QUALIFICATION AND DESIGNATION TABLES</u>.  The tables below delineate T&R events required to be completed to attain proficiency for select certifications, qualifications, and designations.  Certification, qualification and designation letters signed by the commanding officer shall be placed in training Performance Records and NATOPS.  See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

7.4.1 <u>Instructor Designations</u>

| DASC 7208 INSTRUCTOR DESIGNATIONS (5000 Phase) | |
|---|---|
| **INSTRUCTOR DESIGNATION** | **EVENTS** |
| BASIC INSTRUCTOR (BI) | 5000, 5010, 5020 |
| SENIOR INSTRUCTOR (SI) | 5100, 5110, 5120, 5130, M-SHARP FORMAL TRAINING |
| WEAPONS AND TACTICS INSTRUCTOR (WTI) | 6000 |

7.4.2 <u>REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS</u>

| DASC 7208 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase) | |
|---|---|
| **RCQD** | **EVENTS** |
| Qualify as a Controller (CTRL) (QUAL-6255) | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2165, 2400, 2415, 2420, 2425, 3000, 3100, 8000, 8020, 8040, 8062, 6255 |
| Qualify as a Helicopter Director (HD) (QUAL-6230) | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8062, 6230 |
| Qualify as a Tactical Air Director (TAD) (QUAL-6235) | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6255, 8000, 8020, 8040, 8062, 6235 |
| Qualify as a Senior Air Director (SAD) (QUAL-6240) | 2250, 2255, 2260, 3300, 6245<br><br>OR<br><br>2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250<br><br>AND<br><br>2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2375, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080, 6240. |
| Qualify as an ASLT OIC (ASLT OIC) (QUAL-6245) | 3005, 3010, 3015, 3020, 6230<br><br>OR<br><br>3105, 3110, 3115, 3120, 6235<br><br>AND<br><br>2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2250, 2255, 2260, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 3300, 6020, 6023, 6255, 8000, 8020, 8040, 8060, 6245 |

| | |
|---|---|
| Qualify as an ASE OIC (ASE OIC) (QUAL-6250) | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2215, 2220, 2225, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3350, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8060, 6250 |
| Designation as a DASC OIC (DESG-6300) | 2250, 2255, 2260, 3300, 6245<br><br>OR<br><br>2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250<br><br>AND<br><br>2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2315, 2320, 2325, 2350, 2355, 2365, 2370, 2375, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 3400, 6020, 6023, 6230, 6235, 6240, 6255, 8000, 8020, 8040, 8060, 8080, 6300 |
| Basic Instructor (DESG-6320) | 5000, 5010, 5020, 6320 |
| Senior Instructor (DESG-6321) | 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6321 M-SHARP FORMAL TRAINING |
| Designation as a Weapons and Tactics Instructor (WTI) (DESG-6322) | 6000, 6322 |

7.5 <u>SYLLABUS NOTES</u>.

7.5.1 <u>Environmental Conditions Matrix</u>.

| Environmental Conditions | |
|---|---|
| **Code** | **Meaning** |
| D | Shall be conducted during hours of daylight: (by exception - there is no use of a symbol) |
| N | Shall be conducted during hours of darkness, may be aided or unaided |
| N* | Shall be conducted during hours of darkness must be unaided |
| (N*) | May be conducted during hours of darkness – If conducted during hours of darkness must be unaided |
| (N) | May be conducted during darkness – If conducted during hours of darkness; may be aided or unaided |
| NS | Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices |
| (NS) | May be conducted during darkness – If conducted during hours of darkness; must be with Night Vision Devices |
| Note – If the event is to be conducted in the simulator, the Instructor shall ensure the proper environmental conditions for the event. | |

7.5.2 <u>Device Matrix</u>.

| DEVICE | |
|---|---|
| **Symbol** | **Meaning** |
| **L** | Event shall be conducted live (conducted in the field/garrison, during an exercise, etc.). Requires live (non-simulated) execution of the event. |
| **L/S** | Event performed live preferred/simulator optional. |
| **S/L** | Event performed in simulator preferred/live optional. |
| **G** | Ground/academic training. May include Distance Learning, CBT, lectures, or self-paced. |
| **CBT** | Computer Based Training |
| **LAB** | Laboratory |
| **LEC** | Lecture |
| **CP** | Command Post |
| **TEN** | Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station. |
| **TEN+** | Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement. |
| Note – If the event is to be conducted in the simulator, the Instructor shall set the desired environmental conditions for the event. | |

7.5.3 <u>Program of Instruction Matrix</u>.

| PROGRAM OF INSTRUCTION MATRIX | | |
|---|---|---|
| **Program of Instruction (POI)** | **Symbol** | **Aviation Ground** |
| Basic | **B** | Initial MOS Training |
| Refresher | **R** | Return to community from non (MOS/Skill) associated tour |
| Maintain | **M** | All individuals who have attained CSP/MSP/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency. |

7.5.4 <u>Event Terms</u>.

| EVENT TERMS | |
|---|---|
| **TERM** | **DESCRIPTION** |
| Discuss | An explanation of systems, procedures, or tactics during the brief, exercises, or debrief. Student is responsible for knowledge of procedures. |

| Demonstrate | The description and performance of a particular event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required event. |
|---|---|
| Introduce | The instructor may demonstrate a procedure or event to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures. |
| Practice | The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance. |
| Review | Demonstrated proficiency of an event by the student. |
| Evaluate | Any event designed to evaluate team/crew standardization that does not fit another category. |
| E-Coded | This term means an event evaluation form is required each time the event is logged. Requires evaluation by a certified standardization instructor (NATOPS I, WTI, INST Evaluator etc.) |

7.6  CORE SKILL INTRODUCTION PHASE (1000)

7.6.1  Purpose.  To provide classroom entry-level instruction to develop the basic skills necessary for an officer to have a general working knowledge on the characteristics, capabilities, limitations, and operations of DASC related systems and equipment that Air Support Control Officers are required to operate.  This training is complete upon graduation from the Air Support Control Officer Course (ASCOC).  Upon completion the Marine is designated MOS 7208.

7.6.2  General

7.6.2.1  Admin Notes.  Air Support Control Officer Course (CID M09T0A1) located at Marine Corps Communication-Electronics School (MCCES) in 29 Palms, CA.

7.6.2.2  Prerequisites.  Meet the 7208 requirements delineated in MCO 1200.16 (Military Occupational Specialties (MOS) Manual).

7.6.2.3  Stages.  The following stages are included in the Core Skill Introduction Phase.

| CORE SKILL INTRODUCTION PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| AIR SCHOOL (AIRS) | 7.6.3 | 7-12 |

7.6.3  AIR SCHOOL (AIRS)

7.6.3.1  Purpose.  To teach the Marine Officer in the required skills to perform as a basic Air Support Control Officer, MOS 7208.

7.6.3.2  General.

Admin Notes.  All exams will be taken without the aid of references and require a minimum score of 80% to pass unless specifically changed in an event.

Prerequisites.  None.

AIRS-1000              *          B                                                              G

Goal.  Explain the fundamentals of Aviation Command and Control (AC2) employment.

Requirement.  Given a scenario-based Tactical Decision Game (TDG), required documents, and references perform the following:

1.  Discuss planning considerations for Marine Air Command and Control System (MACCS) establishment and employment in support of the MAGTF mission.
2.  Discuss how the Marine Corps implements its AC2 philosophy via the MACCS.
3.  Discuss the role of each MACCS agency and how each supports the six functions of Marine aviation.
4.  Discuss MACCS communication planning requirements.
5.  Discuss the major end items provided by each MACCS agency.
6.  Present a MACCS employment plan.

Performance Standard.  Complete all the requirement items IAW the references.  Instructor will discuss each item with the trainee.  The presented plan must support the scenario.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-22, Anti-Air Warfare
2.  MCWP 3-23, Offensive Air Support
3.  MCWP 3-24, Assault Support
4.  MCWP 3-25, Control of Aircraft and Missiles
5.  MCWP 3-25.3, MACCS Handbook
6.  MCWP 3-25.4, TACC Handbook
7.  MCWP 3-25.5, DASC Handbook
8.  MCWP 3-25.7, TAOC Handbook
9.  MCWP 3-25.8, MATCD Handbook
10.  MCWP 3-25.10, LAAD Handbook
11.  MCWP 3-26, Air Reconnaissance
12.  MCWP 3-40.5, Electronic Warfare
13.  MCWP 3-42.1, Unmanned Aerial Vehicle Operations

AIRS-1100                    *            B                                              G

Goal.  Identify components of MAGTF Operations.

Requirement.  Identify the following:

1.  MAGTF Composition.
2.  Composition and mission of the Marine Division.
3.  The types of Expeditionary Operations and how/when the DASC phases control ashore.
4.  The purpose of the FSCC.
5.  How supporting Arms are used within the MAGTF, specific to direct air support operations.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 1-02, Joint Dictionary of Definition and Terms
2.  JP 3-09, Joint Fire Support
3.  MCDP 1-0, Operations
4.  MCDP 3, Expeditionary Operations
5.  MCWP 3-25, Control of Aircraft and Missiles
6.  MCWP 3-25.5, Direct Air Support Center Handbook
7.  MCWP 3-43.1, Radio Operations
8.  MCWP 3-16, Fire Support Coordination in the Ground Combat Element
9.  MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1102 \*  B  G

Goal.  Identify how the Marine Aircraft Wing supports the MAGTF.

Requirement.  Identify the following:

1.  Concepts for aviation support to the MAGTF.
2.  Squadron nomenclature and missions assigned.
3.  Marine Wing composition.
4.  Manned and Unmanned Aircraft capabilities and limitations.
5.  Aviation Ordinance.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 1-02, Joint Dictionary of Definition and Terms
2.  MCWP 3.2, Aviation Operations
3.  MCWP 3-25.5, DASC Handbook
4.  MCRP 3-16.6A, TTP for Joint Application of Firepower
5.  MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1104 \*  B  G

Goal.  Identify Offensive Air Support (OAS).

Requirement.  Identify the following:

1.  Purpose of OAS.
2.  Requirements for Deep Air Support (DAS).
3.  Requirements for Close Air Support (CAS).
4.  Differences between immediate and pre-planned OAS.
5.  Marine Corps airframes that have the primary mission of OAS.
6.  The unit(s)/agency(ies) within the MACG/MACCS that coordinate(s) OAS.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. JP 3-09.3, Close Air Support
3. MCWP 3-23, Offensive Air Support
4. MCWP 3-23.2, Deep Air Support
5. MCWP 3-25.5, DASC Handbook
6. MCRP 3-16.6A, TTP for Joint Application of Firepower
7. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1106                 *          B                                  G

Goal.  Identify Assault Support Doctrine.

Requirement.  Identify the following:

1. Purpose of Assault Support.
2. Sub-categories of Assault Support.
3. Differences between immediate and pre-planned Assault Support.
4. Marine Corps airframes that have the primary mission of Assault Support.
5. The unit(s)/agency(ies) within the MACG/MACCS that coordinate(s) Assault Support.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. JP 3-50, Personnel Recovery
3. JP 3-52, Joint Airspace Control
4. MCWP 3-11.4, Helicopterborne Operations
5. MCWP 3.2, Aviation Operations
6. MCWP 3-24, Assault Support
7. MCWP 3-25.5, DASC Handbook
8. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1108                 *          B                                  G

Goal.  Identify Aerial Reconnaissance.

Requirement.  Identify the following:

1. Purpose of aerial reconnaissance.
2. Two types of aerial reconnaissance.
3. Which aviation platforms can conduct aerial reconnaissance.
4. The unit and system within the MACG that has the primary mission of aerial reconnaissance.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. MCWP 3-25.5, DASC Handbook
3. MCWP 3-26, Air Reconnaissance
4. MCWP 3-42.1, Unmanned Aerial Vehicle Operations
5. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1110          *          B                                                        G

Goal. Identify Anti-Air Warfare (AAW).

Requirement. Without the aid of reference, identify the following:

1. The definition of AAW.
2. The two types of AAW.
3. Which units within the MACG have the primary mission of AAW.
4. The Marine Corps' air defense systems responsible for conducting AAW operations.
5. The basic construct of an Integrated Air Defense System (IADS).
6. Alert conditions.
7. Air Defense Communication/data link methods.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. JP 6-0, Communications Systems
2. MCWP 3-22, Anti-Air Warfare
3. MCWP 3-25, Control of Aircraft and Missiles
4. MCWP 3-25.3, MACCS Handbook
5. MCWP 3-25.5, DASC Handbook
6. MCWP 3-40.1, MAGTF C2
7. MCWP 3-40.2, Information management
8. MCWP 3-40.3, MAGTF Communication System

9.  MCRP 3-25E, Integrated Air Defense System
10.  CJCSM 6120.01, Joint Multi TDL Operating Procedures

AIRS-1112        *       B                                G

Goal.  Identify Electronic Warfare (EW).

Requirement.  Without the aid of reference, identify the following:

1.  Identify the definition and purpose for EW.
2.  Identify the sub-sets of EW.
3.  Identify which units within the Marine Corps conduct EW.
4.  Identify the procedures used within the DASC to report enemy Electronic Attack operations.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. JP 3-13.1, Electronic Warfare
3. MCWP 3-22.2, Suppression of Enemy Air Defenses
4. MCWP 3-25.5, DASC Handbook
5. MCWP 3-40.5, Electronic Warfare
6. MCRP 3-22.2A, TTP for Joint-SEAD
7. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1114        *       B                                G

Goal.  Identify Control of Aircraft and Missiles.

Requirement.  Without the aid of reference, identify the following:

1.  Marine Corps' philosophy for Command and Control.
2.  Purpose for Control of Aircraft and Missiles.
3.  Structure of the MACCS and each agency's purpose.
4.  Which agencies of the MACCS utilize positive control.
5.  Which agencies of the MACCS utilize procedural control.
6.  Agencies responsible for command and control of expeditionary operations.
7.  Definitions of Air Direction and Air Control.
8.  Become familiar with the Theater Air-Ground System (TAGS).
9.  Become familiar with the doctrine for command and control of expeditionary operations.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support. None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. JP 3-02, Amphibious Operations
3. JP 3-30, Command and Control of Joint Air Operations
4. JP 3-52, Joint Doctrine for Airspace Control in the Combat Zone
5. MCDP 3, Expeditionary Operations
6. MCWP 3-25, Control of Aircraft and Missiles
7. MCWP 3-25.5, DASC Handbook
8. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms
9. MCRP 3-25F, TTP for Theater Air-Ground System

AIRS-1116                  *            B_                                                        G

Goal. Identify threats to the MAGTF.

Requirement. Without the aid of reference, identify the following:

1. Surface-to-air threats.
   a. Categories of AAA.
   b. Categories of SAMs (MANPADS, Optical and RF Guided).
2. Air-to-ground threats.
   a. F/W.
   b. R/W.
3. Surface-to-surface threats.
   a. Armor.
   b. APC.
   c. Artillery.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. AFTTP 3-1, Threat Guide

AIRS-1118                  *            B_                                                        G

Goal. React to threats affecting DASC Operations.

Requirement. React to the following:

1. Surface-to-air threats.
2. Air-to-ground threats.
3. Surface-to-surface threats.

Performance Standard. Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  AFTTP 3-1, Threat Guide

AIRS-1120        *       B                               G

Goal.  Extract critical information from operations documents for the DASC.

Requirement.  With the aid of references, perform the following:

1.  Extract direct air support information from an Air Tasking Order (ATO).
2.  Extract direct air support information from an Airspace Control Order (ACO).
3.  Extract Multi-TDL network information from an OPTASK LINK.
4.  Extract information from ANNEX K of an Operations Order.
5.  Extract direct air support communication information from the ACEOI.
6.  Identify the communication path established between agencies.

Performance Standard.  With the aid of references, pass a practical application exam without error.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 6-0, Communications Systems
2.  MCWP 3-25, Control of Aircraft and Missiles
3.  MCWP 3-25.3, MACCS Handbook
4.  MCWP 3-25.5, DASC Handbook
5.  MCWP 3-40.1, MAGTF C2
6.  MCWP 3-40.2, Information Management
7.  MCWP 3-40.3, MAGTF Communication System
8.  Guide to the USMTF User Formats - OPERATIONAL TASKING LINKS
9.  DISA USMTF Baseline, https://www.us.army.mil/suite/community/15897960
10.  CJCSM 6120.01, Joint Multi TDL Operating Procedures
11.  MIL-STD-6040, USMTF Interface Standard

AIRS-1122        *       B                               G

Goal.  State the proper procedures for handling and storage of classified materials.

Requirement.  Without the aid of reference, perform the following:

1.  State the different levels of classification.
2.  State the marking requirements for each level of classification.
3.  State the two-person integrity (TPI) rule.

4.  State storage procedures for each level of classification.
5.  Identify transportation requirements for classified material.
6.  State the sections of the SF-702.
7.  Identify the approved security containers utilized for storage.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  SECNAVINST 5510, Physical Security
2.  MCO P5510.1A, Physical Security
3.  EKMS-1

AIRS-1124                    *            B                                                    G

Goal.  Identify Air Support Communications Equipment.

Requirement.  Without the aid of reference, identify each of the following:

1.  DASC Single Channel Radio Equipment, to include:
    a.  Receiver/Transmitter Nomenclatures.
    b.  Frequency Spectrum(s).
    c.  Cryptographic Security Capabilities.
    d.  Transmission Security Capabilities.
    e.  Data Capabilities.
    f.  Radio Set Nomenclatures.
    g.  Communication Range.
    h.  Power Requirements.
    i.  Antenna Configurations.
2.  Common Aviation Command and Control System (CAC2S) Equipment, to include:
    a.  The Process and Display System (PDS).
        (1) Components of an Operation Facility (OpFac).
        (2) OpFac emplacement options.
        (3) Components of the Warfighter Console.
    b.  The Communication System (CS).
        (1) The radio components within a CS.
        (2) The antenna components within a CS.
        (3) Identify the number of external radio sets available per CS.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. TM 11927A-OR, AN/PRC-117G
2. TM 10597A-OR/4, AN/PRC-117F
3. SL-3-10597A, AN/PRC-117F
4. TM 10822A-OR, AN/PRC-150
5. SL-3-10822A, AN/PRC-150
6. SL-3-11305A, AN/TRC-209A
7. SL-3-11216A, AN/MRC-148
8. TM 11255A-OR/1, AN/VRC-103
9. TM 10746B-OI/23, AN/PRC-148
10. TM 11496A-OI/3, AN/PRC-152
11. SL-3-11496A, AN/VRC-110
12. SL-3-09730B, AN/MRC-145
13. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1126          *       B                         G

Goal. Identify the purpose of Common Aviation Command and Control System (CAC2S) components.

Requirement. Without the aid of reference, identify the purpose of each of the following:

1. PDS.
2. Data Link equipment.
3. Command Tactical Picture equipment.
4. Multi-Source Correlator Tracker (MSCT).
5. CS.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 12041A/12050A-OD2, CAC2S User Manual
2. MSCT Display User's Manual

AIRS-1128          *       B                         G

Goal. Conduct communications utilizing CAC2S.

Requirement. With the aid of reference, perform the following:

1. Prepare a communication device for operation.
2. Conduct inter-system communication.
3. Configure a radio to receive.
4. Configure a radio transmit.
5. Operate a radio network.

Performance Standard. With the aid of reference, pass an exam.

Prerequisite. None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-40.3, MAGTF Communication System
2.  CJCSM 3320.02B, Joint Spectrum Interference Resolution (JSIR) Procedures
3.  KTCL Handling and Operating Instructions
4.  TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1130               *           B                                    G

Goal.  Conduct Information Security during DASC operations.

Requirement.  With the aid of reference, perform the following:

1.  Define information security.
2.  Identify the components of information security.
3.  Define communications security (COMSEC).
4.  Identify the purpose of cryptographic security (CRYPTOSEC).
5.  Identify the purpose of cryptographic keys.
6.  Identify the purpose of code words.
7.  Identify the purpose of user encryption keys.
8.  Conduct message encryption.
9.  Conduct message decryption.
10.  Identify source documents for code words.
11.  Identify the purpose of transmission security (TRANSSEC).
12.  Describe the theory of frequency hopping operations.
13.  Identify the purpose of radio discipline.
14.  Identify the purpose of Radio/Telephone procedures.
15.  Identify the purpose of brevity code words.
16.  Describe the meaning of a given direct air support brevity code word.
17.  Describe the appropriate response to enemy jamming.
18.  Describe the method to report enemy jamming.
19.  Identify the purpose of user authentication systems.
20.  Conduct user authentication.
21.  Conduct user time authentication.
22.  Identify the purpose for disbursing communications equipment.
23.  Identify the security concerns for wire transmissions.
24.  Describe emission security techniques.
25.  Define physical security.
26.  Describe physical security measures.

Performance Standard.  With the aid of reference, pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-40.3, MAGTF Communication System
2.  CJCSM 3320.02B, Joint Spectrum Interference Resolution (JSIR) Procedures
3.  KTCL Handling and Operating Instructions
4.  TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1132                *          B                                         G

Goal.  Plot direct air support information.

Requirement.  Without the aid of reference, perform the following:

1.  Locate a MGRS coordinate.
2.  Plot a MGRS coordinate.
3.  Locate a Latitude/Longitude coordinate.
4.  Plot a Latitude/Longitude coordinate.
5.  Plot friendly/enemy units using appropriate symbols.
6.  Plot FSCM/ACMs using appropriate symbols.
7.  Plot DASC specific symbols (JTAR/ASR/etc.).
8.  Plot direct air support information using J-Series track options.
9.  Maintain TAD/HD aircraft mission status boards.
10.  Locate tracks using Global Area Reference System (GARS).

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 2-03, Geospatial Intelligence Support to Joint Operations
2.  MCWP 3-25.5, Control of Aircraft and Missiles
3.  MCRP 5-2A, (Operational Terms and Graphics)
4.  MIL-STD-6016, TDL 16 Interface Standard
5.  TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1134                *          B                                         G

Goal.  Receive and process immediate air support requests.

Requirement.  Without the aid of reference, conduct the following:

1.  Receive and process JTARs.
2.  Receive and process ASRs.
3.  Receive and process CASEVACs.
4.  Exchange direct air support information with requesting unit.
5.  Identify the components of the request forms.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

AIRS-1136                   *           B                                               G

Goal.  Operate Tactical Display Framework (TDF).

Requirement.  With the aid of reference, perform the following:

1.  Check system connectivity.
2.  Configure the software for operation.
3.  Load an Air Tasking Order.
4.  Load an Airspace Control Order.
5.  Load map data.
6.  Configure track tags.
7.  Configure track details.
8.  Configure a track list.
9.  Apply local display filters.
10.  Import Common Tactical Picture Overlays.
11.  Utilize system overlays.
12.  Hook tracks.
13.  Utilize range-bearing lines.
14.  Create a track.
15.  Create a direct air support request.

Performance Standard.  With the aid of reference, pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  TM 12041A/12050A-OD2, CAC2S User Manual
2.  MSCT Display User's Manual

AIRS-1138                   *           B                                               G

Goal.  Operate Joint Tactical Common Operational Picture Workstation (JTCW) Client.

Requirement.  With the aid of reference, perform the following:

1.  Start JTCW client.
2.  Configure the client for operation.
3.  Configure a Client to Gateway connection.
4.  Load injector mangers required for DASC operations.
5.  Load map data.

6. Load an Airspace Control Order.
7. Create overlays.
8. Manage overlays.
9. Share overlays.
10. Apply local display filters.
11. Utilize range-bearing lines.
12. Configure track details.
13. Create a track.

Performance Standard. With the aid of reference, pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Software User's Manual (SUM) for Command and Control PC (JTCW)
2. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1144         *        B                                       G

Goal. Familiarize the operator on Theater Battle Management Core System (TBMCS) for direct air support operations.

Requirement. Utilizing a TBMCS terminal, with the aid of references, perform the following:

1. Login and Subscribe to Alerts.
2. Login to the CAOC Central Webpage (CCWeb).
3. Send/receive email using Iris For Outlook (IFO).
4. Utilizing CCWeb:
    a. Operate Execution Status and Monitoring Tool (ESTAT).
        (1) Open the appropriate Air Battle Plan (ABP).
        (2) Update aircraft mission status
        (3) Access mission Operational Support Pages (Opages)
    b. Operate Web Air Request Processor (WARP).
        (1) Load appropriate ABP.
        (2) Input an immediate Air Support Request.
        (3) Pair aircraft mission data with request.
        (4) Apply BDA to request.
    c. Access the ATO/ACO using the ATO/ACO Tool (AAT).

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1.  MCTSSA's Marine Corps Tactical Data Systems Reference Guide

AIRS-1146       *       B       G

Goal.  Operate the Effects Management Tool (EMT).

Requirement.  With the aid of reference, perform the following:

1.  Set up the EMT.
2.  Start the EMT.
3.  Configure EMT for operation.
4.  Provide Advanced Field Artillery Tactical Data System (AFATDS) units to CAC2S.
5.  Provide AFATDS overlays to CAC2S.
6.  Provide geometries to AFATDS.
7.  View targets.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  Software User's Manual (SUM) for Command and Control PC (JTCW)
2.  TM 12041A/12050A-OD2, CAC2S User Manual
3.  TB 11-7010-349-10, EMT User's Manual
4.  TB 11-7025-354-10-4, Air Operations for AFATDS
5.  TM 7025-OR/1/2/4, AFATDS

AIRS-1148       *       B       G

Goal.  Define elements of information exchange within the MAGTF Communications System.

Requirement.  With the aid of reference, perform the following:

1.  Identify the four classes of information.
2.  Identify the characteristics of quality information.
3.  Define situational awareness.
4.  Define a commander's critical information requirement.
5.  Define a priority intelligence requirement.
6.  Define a friendly force information requirement.
7.  Define an essential element of friendly information.
8.  Identify the purpose of information flow.

Performance Standard.  With the aid of reference, pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-40.2, Information Management
2.  MCWP 3-40.3, MAGTF Communication Systems

AIRS-1150          *       B                               G

Goal.  Identify the components of the air picture.

Requirement.  With the aid of reference, perform the following:

1.  Define a track.
2.  Identify the purpose of a track number.
3.  Identify the definition of the Common Tactical Picture.
4.  Describe the purpose of the Multi-TDL Network.
5.  Describe the characteristics of Link 11.
6.  Describe the characteristics of Link 11B.
7.  Describe the characteristics of Link 16.
8.  Describe the Joint Range Extension Application Protocols (JREAP).
9.  Identify the TDL capabilities of the agencies provided by MACG units.
10.  Identify TDL capabilities of USMC air platforms.

Performance Standard.  With the aid of reference, pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 3115.01, Joint Data Network Operations
2.  CJCSM 6120.01, Joint Multi-TDL Operating Procedures
3.  MCWP 3-22, Anti Air Warfare
4.  MCWP 3-23, Offensive Air Support
5.  MIL-STD-6016, TDL 16 Interface Standard
6.  MIL-STD-6017, VMF Interface Standard
7.  MIL-STD-3011, JREAP Interface Standard
8.  MIL-STD-6020, Data Forwarding between TDLs

AIRS-1152          *       B                               G

Goal.  Perform as a Tactical Air Director (TAD).

Requirement.  In a DASC, perform the following:

1.  Parse the ATO to create accurate soft frags.
2.  Route aircraft in accordance with ATO.
3.  Deconflict aircraft with surface to air threats, other aircraft, and combined arms fires.
4.  Use proper terminology associated with procedural control.
5.  Use the DASC CONTROL BRIEF brief to RIO F/W aircraft.
6.  Accurately control common F/W missions:
    a.  CAS.

   b.  XCAS.
   c.  FAC(A).
   d.  Reconnaissance.
   e.  Refueling.
   f.  SCR.
   g.  UAS.
   h.  Downed A/C.
7.  Pass and receive air support requests to and from F/W aircraft.
8.  Give a crew brief.

Performance Standard.  Without the aid of reference, pass a test and apply knowledge gained in practical application using the DASC.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

AIRS-1154                   *            B                                                    G

   Goal.  Perform as a Helicopter Director (HD).

   Requirement.  In a DASC, perform the following:

   1.  Parse the ATO to create accurate soft frags.
   2.  Route aircraft in accordance with ATO.
   3.  Deconflict aircraft with surface to air threats, other aircraft, and combined arms fires.
   4.  Use proper terminology associated with procedural control.
   5.  Use the DASC CONTROL BRIEF brief to RIO R/W aircraft.
   6.  Accurately control common R/W missions:
       a.  CASEVAC.
       b.  CAS.
       c.  ASC(A).
       d.  Reconnaissance.
       e.  VIP.
       f.  Troop Insert.
       g.  UAS.
       h.  Logistics.
   7.  Pass and receive air support requests to and from R/W aircraft.
   8.  Give a crew brief.

   Performance Standard.  Without the aid of reference, pass a test and apply knowledge gained in practical application using the DASC.

   Prerequisite.  None.

   Ordnance.  None.

   Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

7.7  CORE SKILL TRAINING (2000)

7.7.1  Purpose.  Core Skills are intended to train the individual to utilize the tools and systems required during performance as a DASC crewmember.  Core Skills require a set of events to be completed to ensure a level of proficiency is achieved before the trainee proceeds to Mission Skill training.

7.7.2  General

7.7.2.1  Admin Notes

    (1)    All events' exams will be without the aid of reference(s) and a minimum score of 80% to pass unless specifically changed in an event.

    (2)    The following requirements apply to the Levels of DASC Operational Tempo, where applicable:

Level 1:  Minimum per hour: 2 F/W ATO missions, 2 R/W ATO missions, 2 immediate requests, and 1 fire mission.

Level 2:  Minimum per hour: 4 F/W ATO missions, 4 R/W ATO missions, 3 immediate requests, and 2 fire missions.

Level 3:  Minimum per hour: 6 F/W ATO missions, 6 R/W ATO missions, 4 immediate requests, and 3 fire missions.

Level 4:  Minimum per hour: 8 F/W ATO missions, 8 R/W ATO missions, 5 immediate requests, and 4 fire missions.

Level 5:  Minimum per hour: 10 F/W ATO missions, 10 R/W ATO missions, 6 immediate requests, and 5 fire missions.

7.7.2.2  Prerequisite.  None

7.7.2.3  Stages.  The following stages are included in the Core Skill Phase of training.

| CORE SKILL PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| ACADEMIC (ACAD) | 7.7.3 | 7-30 |
| COMMUNICATIONS (COMM) | 7.7.4 | 7-32 |
| EQUIPMENT (EQUIP) | 7.7.5 | 7-34 |
| AIR SUPPORT ELEMENT (ASE) | 7.7.6 | 7-37 |
| AIR SUPPORT LIAISON TEAM (ASLT) | 7.7.7 | 7-41 |
| DASC OIC (DOIC) | 7.7.8 | 7-44 |
| FAMILIARIZATION (FAM) | 7.7.9 | 7-48 |
| PROCEDURAL CONTROL (CTRL) | 7.7.10 | 7-50 |
| SENIOR AIR DIRECTOR (SAD) | 7.7.11 | 7-54 |
| TACTICAL DATA LINKS (TDL) | 7.7.12 | 7-58 |
| COMMAND AND CONTROL SYSTEMS (C2SYS) | 7.7.13 | 7-69 |

7.7.3 ACADEMICS (ACAD)

7.7.3.1 Purpose. To review, develop and evaluate knowledge of DASC operations, systems and procedures.

7.7.3.2 General

Admin Notes. The academic events in this phase are intended to complement and supplement those in the ACPM. In addition to the events listed in this phase, all trainees will also complete ACPM-8003 (DASC) and complete a self-paced reading of MCWP 3-25.5, DASC Handbook.

Prerequisites. None.

Crew Requirements. None.

ACAD-2045     1.0     *     B                                              G

Goal. Identify DASC crew positions.

Requirement. For each doctrinal crew position within the DASC:

1. Identify the duties and responsibilities of the position.
2. Identify and describe the doctrinal net(s) used.
3. Identify the frequency spectrum of the net.
4. Identify the agencies/units operating on the net.
5. Provide examples of information passed/received from those agencies/units.

Performance Standard. Pass an exam.

Instructor. BI

Prerequisite. 8003.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. MCWP 3-40.3, Communications

ACAD-2050     1.0     *     B                                              G

Goal. Identify the proper handling and storage of classified materials.

Requirement. Perform the following:

1. State the different levels of classification.
2. State the marking requirements for each level of classification.
3. State the two-person integrity (TPI) rule.
4. State storage procedures for each level of classification.
5. Identify transportation requirements for classified material.
6. State the sections of the SF-702.
7. Identify the approved security containers utilized for classified materials.

Performance Standard.  Pass an exam.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  SECNAV 5510.36, DoN Information Security Program Instruction
2.  EKMS-1

ACAD-2055      1.0      *      B                                                      G

Goal.  Identify Airspace Coordination Measures (ACMs) / Fire Support Coordination Measures (FSCMs).

Requirement.  Perform the following:

1.  Identify the elements of an airspace coordination means request.
2.  Identify the 8 types of ACMs, describe and provide examples of each.
3.  Given a list of 25 ACMs from the reference, provide the definition and purpose for each.
4.  Identify FSCMs commonly used by the MAGTF.

Performance Standard.  Pass an exam.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 3-52, Joint Doctrine for Airspace Control
2.  MCWP 3-16, Fire Support Coordination in the GCE

ACAD-2060      1.0      *      B                                                      G

Goal.  Identify weather reports and impacts of weather on aviation operations.

Requirement.  Perform the following:

1.  Identify the common aviation related weather reports.
2.  Interpret a Meteorological Aviation Report (METAR).
3.  Given a scenario by the instructor, identify the potential impacts to aviation operations of various weather conditions.

Performance Standard.  Pass an exam.

      Instructor.  BI

      Prerequisite.  None.

      Ordnance.  None.

      Range.  None.

      External Syllabus Support.  None.

      Reference.
      1.  MCWP 3-35.7 MAGTF Meteorological and Oceanographic Support
      2.  Federal Meteorological Handbook No. 1

ACAD-2065    1.0    *    B                              G

      Goal.  Describe aviation ordnance.

      Requirement.  Provided a list of 25 examples of air-to-ground ordnance, describe each to include:

      1.  Nomenclature and/or short title.
      2.  Description.
      3.  Guidance scheme.
      4.  Provide examples of targets it is effective against.
      5.  Provide examples of USMC aircraft that can employ it.

      Performance Standard.  Pass an exam.

      Instructor.  BI

      Prerequisite.  None.

      Ordnance.  None.

      Range.  None.

      External Syllabus Support.  None.

      Reference.
      1.  JP 3-09, Joint Fire Support

7.7.4  COMMUNICATIONS (COMM)

7.7.4.1  Purpose.  To develop proficiency in utilizing MASS organic field radios and communications procedures.

7.7.4.2  General

      Admin Notes.  None.

      Prerequisites.  None.

      Crew Requirements.  None.

COMM-2115    0.5    *    B                              L

Goal. Describe current man portable radios.

Requirement. Given a current multi-band radio, state the following:

1. State the characteristics, capabilities, and limitations of the radio.
2. State the purpose and associated frequency spectrum for Frequency Hopping and HAVE QUICK.

Performance Standard. State the requirement items IAW the applicable Technical Manuals (TM); minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. Applicable technical manual or operator's manual.

COMM-2120      0.5      *      B                                              L

Goal. Describe current HF/VHF radios.

Requirement. Given an HF/VHF radio, state the following:

1. Identify capabilities and limitations of the HF/VHF radio.
2. Explain the functions and capability of chat.
3. Explain the purpose of waveforms.
4. State the characteristics of the radio.

Performance Standard. State the requirement items IAW the applicable TM(s); minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. Applicable technical manual or operator's manual.

COMM-2130      2.0      *      B                                              L

Goal. Identify communication problems.

Requirement. Given an operational DASC and a scenario with verifiable communications problems:

1. Identify Net restoration/maintenance priorities.
2. Determine the communications problems.

3. Determine source of the communication problem:
   a. Operator error.
   b. System degradation.
   c. System jamming.
   d. System intrusion.
   e. System interference.
4. Correct the problem by initiating appropriate action and/or reports.

Performance Standard. Complete requirement items IAW the reference; minor errors corrected by the trainee are acceptable. Instructor may evaluate trainee on naturally occurring communication problems without a scenario should they occur.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2170, 2400, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 3-40.3B, Radio operator's handbook
2. MCRP 3-40.3C, Antenna Handbook
3. MCWP 3-40.3, Communications and Information Systems

## 7.7.5 EQUIPMENT(EQUIP)

7.7.5.1 Purpose. To develop proficiency in utilizing DASC operational equipment and hardware.

7.7.5.2 General

Admin Notes. None.

Prerequisites. None.

Crew Requirements. None.

EQUIP-2150     1.5      *        B                                                    L

Goal. Identify the characteristics, capabilities, and limitations of the CS.

Requirement. Identify and explain the following:

1. Identify the nomenclature and number of radios.
2. Identify the number of radio nets and frequency spectrum breakdown.
3. Identify antennas.
4. Explain the power requirements.
5. Explain the remote capability.

Performance Standard. Identify and explain the required items IAW the reference and without error.

Instructor. BI

Prerequisite.  2115, 2120.

Ordnance.  None.

Range.  None.

External Syllabus Support.  Comm Section Support.

Reference.
1.  TM 10566C-OI/1
2.  TM 10566D-OI
3.  Harris quick reference pocket guide for the AN/PRC 116
4.  Harris quick reference pocket guide for the AN/PRC 150
5.  MCWP 3-25.5, DASC Handbook

EQUIP-2155      1.5      *      B                                                      L

Goal.  As part of a team, employ and maintain organic DASC shelter.

Requirement.  Given the site diagram, an operational shelter with required cables, and four to six Marines, complete the following:

1.  Emplace and expand shelter.
2.  Stake down shelter.
3.  Connect multiple shelters/vestibules/vehicle boots.
4.  Connect ECU ducting/plenum.
5.  Connect lighting subsystems.
6.  Connect internal power harness/MEPDS gear.
7.  Tear-down and repack shelter for retrograde.
8.  Conduct limited maintenance/repair.

Performance Standard.  Demonstrate the ability to properly set up (20 minutes) and tear down (20 minutes) a DASC Shelter and perform proper maintenance.  Units will conduct this event for each type of shelter on the CMR.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  BASE-X manual
2.  Unit generated exercise/operation site diagram

EQUIP-2160      0.5      *      B                                                      L

Goal.  Identify the characteristics, capabilities and limitations of Motor Transport and Utilities (MT/UT) equipment associated with the MASS.

Requirement.  Identify the MT/UT equipment as follows:

1. Identify rolling stock organic to the MASS.  Conduct the following for each:
    a. State the proper nomenclature.
    b. State the power capabilities/requirements.
    c. Explain the purpose of SL-3 gear and where to find the list.
    d. Identify what equipment the vehicles can tow/carry.
2. Identify utility equipment organic to the MASS.  Conduct the following for each:
    a. State the proper nomenclature.
    b. State the power capabilities/requirements.
    c. State the relationship between utility equipment and specific DASC configurations.
3. Explain proper hazardous material handling.

Performance Standard.  Identify and explain the required items IAW the references; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MSTP Pamphlet, MAGTF Planner's Guide

EQUIP-2165        0.5        *        B                                                             L

Goal.  Identify the characteristics, capabilities and limitations of MRC vehicles.

Requirement.  Without the aid of reference, complete the following:

1. State the proper nomenclature.
2. State the frequency spectrum.
3. State expected range and factors affecting range.
4. Identify power requirements and output.
5. Identify compatible antennae.
6. Identify MRC employment options for a MASS.

Performance Standard.  Without the aid of reference, pass an exam.

Instructor.  BI

Prerequisite.  2115, 2120.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

EQUIP-2170        2.0        *        B                                                             L

Goal. Emplace and displace the Processing and Display System (PDS) Operations Facility (OPFAC).

Requirement. Given a DASC system diagram, CAC2S PDS OPFAC components, and the reference:

1. Set up the PDS OPFAC tents.
2. Set up the power distribution components.
3. Set up the network infrastructure components.
4. Set up the War Fighter Consoles (WFCs) and visual display equipment.
5. Initialize the OPFAC operator equipment to include startup and problem identification.
6. Displace the PDS OPFAC.

Performance Standard. With a DASC crew and reference, demonstrate the ability to perform requirement under general supervision.

Instructor. BI

Prerequisite. 2155.

Ordnance. None.

Range. None.

External Syllabus Support. COMM Section Support.

Reference.
1. TM 12041A/12050A-OD2, CAC2S User Manual

7.7.6 AIR SUPPORT ELEMENT (ASE)

7.7.6.1 Purpose. To develop technical expertise in ASE employment. At the conclusion of this stage of training, the trainee will have attained all the skills to be considered a core skill proficient Air Support Element Officer.

7.7.6.2 General

Admin Notes

1. The majority of these events are briefings to ensure that the trainee understands the basics of ASE duties before undertaking duties as a DASC extension or part of a MEU ACE. Therefore, all Core Skills events should be completed before Mission Skills events. Duties may take place at the CE, GCE, LCE, and NTACS.

2. Proper execution of liaison relies on knowledge of the appropriate orders and operations documents.

Prerequisites. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062.

Crew Requirements. None.

ASE-2200          1.0          *          B                                                    L

Goal. Brief a GCE Scheme of Maneuver.

Requirement. Given the references, a GCE scheme of Maneuver, supporting documents, and a tactical scenario:

1. Brief the structure of a MEU GCE.
2. Brief the structure of a MEU ACE.
3. Brief the structure of a MEU LCE.
4. Brief FSCMs, ACMs, and Maneuver Control Measures affecting operations.
5. Brief fire support assets, capabilities and limitations, and Fire Support Plan.
6. Brief direct air support requirements and friction points.
7. Brief priority of fires by phase of the operation.
8. Brief targeting products (RAGM, AGM, HPTL, etc) as required.

Performance Standard.  Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCDP 1-0, Marine Corps Operations
2. MCRP 5-12D, Organization of Marine Corps Forces

ASE-2205          1.0          *          B                                                                    L/S

Goal.  Brief the purpose, capabilities and limitations of an ASE to a GCE/ACE Commander.

Requirement.  Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Table of Organization (T/O), a GCE scheme of maneuver, and a GCE commander (live or simulated by instructor):

1. Brief the doctrinal purpose of an Air Support Element.
2. Brief the proper Crew Resource Management (CRM).
3. Brief the capabilities and limitations based on T/O and T/E.

Performance Standard.  Perform the requirement items.  Small conceptual errors are allowable, and should be corrected by the instructor; however, the presentation should contain no factual errors.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 3-02, Amphibious Operations
2.  MCDP 1-0, Operations
3.  MCWP 3-25.5, DASC Handbook
4.  MCWP 3-31.6, Supporting Arms Coordination in Amphibious Operations

ASE-2210         3.0      *        B                                                                    L

Goal.  Explain the targeting cycle.

Requirement.  Given the references, discuss the targeting process, to include:

1.  Decide, Detect, Deliver, and Assess (D3A).
2.  Inputs and products of the cycle.
3.  ASE role in D3A (as required).
4.  Key players.

Performance Standard.  Perform the required items, small conceptual errors are allowable, and should be corrected by the instructor; however, the presentation should contain no factual errors.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-16 Fire Support Coordination in the GCE

ASE-2215         3.0      *        B                                                                    L

Goal.  Explain the purposes of Navy Amphibious Ships.

Requirement.  Given the references, discuss key features of:

1.  LCC.
2.  LHA.
3.  LHD.
4.  LPD.
5.  LSD.
6.  LCAC.
7.  LCU.

Performance Standard.  Brief the characteristics of each ship.

Instructor.  BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 3-31B, Amphibious Ships and Landing Craft Data Book

ASE-2220        1.0      *        B                                                    L

Goal. Brief the roles and responsibilities of Key Personnel in the SACC/LFOC/FSCC.

Requirement. In accordance with the references, brief the Following:

1. Key personnel within the SACC/LFOC/FSCC.
2. Roles and responsibilities within an SACC/LFOC/FSCC.

Performance Standard. Perform the required items. Small conceptual errors are acceptable and should be corrected by the instructor; however, there should be no factual errors.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. JP 3-02, Amphibious Operations
2. MCWP 3-31.6, Supporting Arms Coordination in Amphibious Operations

ASE-2225        1.0      *        B                                                    L

Goal. Define the Navy Tactical Air Control System.

Requirement. Without the aid of reference, state the purpose, roles, and responsibilities of:

1. Navy Tactical Air Command Center (TACC).
2. Navy Tactical Air Direction Center (TADC).
3. Air Traffic Control Section (ATCS).
4. Helicopter Coordination Section (HCS).
5. Air Support Coordination Section (ASCS).
6. Air Defense Section (ADS).

Performance Standard. Without the aid of references, pass an exam.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. JP 3-02, Amphibious Operations

7.7.7 AIR SUPPORT LIAISON TEAM (ASLT)

7.7.7.1 Purpose. To develop technical expertise in ASLT employment, DASC/FSCC information exchange requirements, and management of liaison teams. At the conclusion of this stage of training, the trainee will have attained all the skills to be considered a core skills proficient Liaison Officer.

7.7.7.2 General

Admin Notes

1. The majority of these events are briefings to ensure that the trainee understands the basics of ASLT duties before undertaking duties as a liaison. Therefore, all Core Skills events should be completed before Mission Skills events. Liaison duties can take place at the CE, GCE, LCE, and NTACS.

2. Proper execution of liaison relies on knowledge of the appropriate orders operations documents. Complete ACPM training and Utilize academic courseware as outlined in the MAWTS-1 C3 Course Catalog.

Prerequisites.

3005, 3010, 3015, 3020, 6230

OR

3105, 3110, 3115, 3120, 6235

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Crew Requirements. None.

ASLT-2250        1.0        *        B                                                              L

Goal. Brief a GCE Scheme of Maneuver.

Requirement. Given the references, a GCE scheme of Maneuver, supporting documents, and a tactical

scenario, brief the following information and how it relates to the DASC:

1. Fire Support Coordination Measures, Airspace Coordination Measures, and Maneuver Control Measures affecting the operations.
2. Fire support assets, capabilities and limitations, and a fire support plan.
3. Direct air support requirements and friction points.
4. Priority of fires by phase of the operation.
5. Targeting products (RAGM, AGM, HPTL, etc) as required.

Performance Standard.  Complete all the required items IAW the references.  Instructor will discuss each item with the trainee.

Instructor.  BI

Prerequisite.  3005, 3010, 3015, 3020, 6230

OR

3105, 3110, 3115, 3120, 6235

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCDP 1-0, Marine Corps Operations
2. MCWP 3-16, Fire Support Coordination in the GCE
3. MCRP 3-16.2, Techniques and Procedures for Fire Support Coordination
4. MCWP 3-16.2, Procedures for Marine Corps Fire Support

ASLT-2255        1.0        *        B                                                            L

Goal.  Brief the purpose, capabilities, and limitations of the ASLT.

Requirement.  Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Table of Organization (T/O), a GCE scheme of maneuver, and a GCE commander (live or simulated by instructor):

1. Brief the doctrinal purpose of an ASLT.
2. Brief crew utilization.
3. Brief the capabilities and limitations.
4. Brief support requirements.

Performance Standard.  Perform the required items. Small conceptual errors are allowable, and should be corrected by the instructor; however, the presentation should contain no factual errors.

Instructor.  BI

Prerequisite.  3005, 3010, 3015, 3020, 6230

OR

3105, 3110, 3115, 3120, 6235

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCDP 1-0, Operations
2.  MCWP 3-16, Fire Support Coordination in the GCE
3.  MCWP 3-25.5, DASC Handbook
4.  Squadron SOP

ASLT-2260        1.0        *        B                                                        L

Goal.  State the configuration of a TACP.

Requirement.  Without the aid of reference, state the following:

1.  The purpose of a TACP.
2.  The members of a TACP and their responsibilities at each GCE echelon.
3.  The major end items of a TACP and their purpose.

Performance Standard.  Without the aid of references, pass an exam.

Instructor.  BI

Prerequisite.  3005, 3010, 3015, 3020, 6230

OR

3105, 3110, 3115, 3120, 6235

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 1-02, DOD Dictionary of Military and Associated Terms
2. JP 3-09.3, Close Air Support
3. MCWP 3-16, Fire Support Coordination in the GCE
4. MCWP 3-16.6, Supporting Arms Observer Spotter and Controller
5. MCRP 5-12D, Organization of Marine Corps Forces
6. MAWTS-1 TACP TACSOP dated 2 Mar 2012

7.7.8  DASC OIC (DOIC)

7.7.8.1  Purpose.  To develop technical expertise and proficiency in DASC employment, integration into the MACCS and coordination with elements of the MAGTF, and planning for and management of air support operations.

7.7.8.2  General

Admin Notes.  At the conclusion of this stage of training individuals will have attained proficiency in the skills required to conduct the duties of an Officer-in-Charge of a Direct Air Support Center (DASC) (with or without extensions/echelons).

Prerequisites.  None.

Crew Requirements.  None.

DOIC-2300      80.0      *      B                                                    L

Goal.  Direct the creation and conduct of a DASC Drill.

Requirement.  With the aid of references, given a list of training objectives; plan, coordinate, and execute a DASC simulation to include:

1. Develop a scenario IAW training objectives.
2. Build a DASC drill to support the scenario (use of a simulation generator is encouraged but not required).
3. Submit the scenario and DASC drill to the instructor.
4. Request required communications and support equipment.
5. Identify white cell requirements.
6. Oversee setup of the DASC and white cell.
7. Ensure execution and evaluation of the scenario.
8. Compile After-Action items.

Performance Standard.  Complete all the required items while working with an CC.

Instructor.  BI

Prerequisite.  8000, 8020, 8040.

Ordnance.  None.

Range.  None.

External Syllabus Support.  S-2, S-3, S-4, S-6, MHE.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. MCWP 5-1, Marine Corps Planning Process (MCPP)

3.  MCRP 3-0A, Unit Training Management (UTM) Guide
4.  MCRP 3-0B, How to Conduct Training
5.  MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

DOIC-2305        1.5      *        B                                                              L/S

Goal.  Conduct DASC site selection.

Requirement.  Given the reference, a Table of Equipment (T/E) and/or Equipment Density List (EDL) , Commander's guidance, and a general location, conduct a map survey and select a site that will support DASC operations and draw a site diagram accounting for the following considerations:

1.  Identify environmental concerns that may affect DASC communication.
2.  FSCC collocation/coordination.
3.  Site security.
4.  Camouflage and dispersion.
5.  Trafficability.
6.  Location of communications and support equipment.
7.  Priority for equipment emplacement.
8.  Echelon considerations.
9.  Identify composition of the advanced party/RSOP team.
10.  Identify alternate sites.

Performance Standard.  Brief the instructor and answer questions on the site selected.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting the DASC.

External Syllabus Support.  S-2, S-3, S-4, S-6.

Reference.
1.  MCWP 3-25.5, DASC Handbook

DOIC-2310        1.5      *        B                                                              L

Goal.  Describe DASC displacement operations.

Requirement.  Given a scenario-based Tactical Decision Game (TDG):

1.  Define DASC displacement operations.
2.  Define the factors associated with DASC displacement operations.
3.  Write a plan for the DASC to displace and annotate identified issues of concern.

Performance Standard.  Complete all the required items IAW the reference. Instructor will discuss each item with the trainee. The written plan must support the scenario.

Instructor.  BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8062.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. MCWP 5-1, Marine Corps Planning Process (MCPP)
3. EWS 8662, MAGTF Operations Ashore

DOIC-2315        2.0        *        B                                                                L

Goal. Determine DASC requirements.

Requirement. Given mission tasking and commander's guidance, determine requirements to support the DASC mission taking into account the following considerations:

1. Size of force supported.
2. Operational hours and duration of operation/exercise.
3. Communication requirements.
4. Size of ACE / sortie rate.
5. Size of GCE / expected rate of immediate requests.
6. Digital backbone.
7. Use of automated systems.
8. Use of DASC extensions.
9. Echelon requirements.
10. Information exchange requirements.
11. Coordinate with supporting sections to produce: BOM, EDL, LSR, Principle End Item (PEI) listing, physical security of the site.

Performance Standard. Complete all required items and brief the instructor.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3220, 3225, 3230, 3235, 3240, 6020. 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. None.

External Syllabus Support. S-2, S-3, S-4, S-6, and a FSCC/FFCC.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. MCWP 5-1, Marine Corps Planning Process (MCPP)
3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

DOIC-2320      2.0      *      B                                              L

    Goal.  Develop a load plan.

    Requirement.  Given a movement order, Equipment Density List (EDL), and manning document:

1.  Examine available personnel, equipment, vehicles, and trailers.
2.  Determine priorities for loading and unloading based on position occupation plan.
3.  Determine convoy order based on position occupation plan.
4.  Graphically display personnel and equipment carried in each vehicle or trailer.
5.  Ensure classified cargo, sensitive cargo, and hazardous material (HAZMAT) is properly loaded.
6.  Establish bump plan for personnel, equipment, and classified material should vehicle/trailer become disabled.
7.  Conduct Pre-Combat Inspections (PCI).

    Performance Standard.  Conduct all the items in accordance with the references.

    Instructor.  BI

    Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2315, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  S-3, S-4, S-6, and MHE.

    Reference.
1.  MCWP 3-16.3, Tactics, Techniques and Procedures for the Field Artillery Cannon Battery
2.  FM 4-01.011, Unit Movement Operations
3.  MCRP 4-11.3G, Unit Embarkation Handbook
4.  FORSCOM Form 285-R Vehicle Load Card
5.  Squadron SOP

DOIC-2325      2.0      *      B                                              L

    Goal.  State the procedures and challenges of Phasing Control Ashore.

    Requirement.  Given a scenario-based TDG, demonstrate the following:

1.  Define phasing control ashore.
2.  Explain each step of phasing control ashore.
3.  Determine common issues of concern.
4.  Write a plan to phase control ashore and annotate identified issues of concern.

    Performance Standard.  Complete all the required items while working with an SAD.  Instructor will discuss each item with the trainee.  The written plan must support the scenario.

    Instructor.  SI

    Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305,

2310, 2315, 2320, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 3-02, Joint Doctrine for Amphibious Operations
2.  MCWP 3-25.5, DASC Handbook
3.  MCWP 5-1, Marine Corps Planning Process (MCPP)
4.  EWS 8662, MAGTF Operations Ashore

7.7.9  FAMILIARIZATION (FAM)

7.7.9.1  Purpose.  To facilitate the understanding of DASC operations through the familiarization with and observation of agencies/ organizations external to the DASC involved in aviation operations.

7.7.9.2  General.

Admin Notes.  The familiarization events contained in this phase are intended to complement the MACCS (8000) Stage and the MAGTF (8060) Stage of the ACPM.  Each event is to be conducted as a tour of an operational facility under the guidance of a DASC SI or appropriate agency equivalent.

Prerequisites.  None.

Crew Requirements.  None.

FAM-2350          2.0          *          B                                                                    L

Goal.  Observe a Tactical Air Control Party (TACP).

Requirement.  While observing a TACP in a field environment discuss the positions, equipment, and operations in relation to the DASC.

Performance Standard.  Complete a tour of a TACP.

Instructor.  SI

Prerequisite.  8001, 8003, 8023.

Ordnance.  None.

Range.  None.

External Syllabus Support.  TACP.

Reference.
1.  MCWP 3-23.1, Close Air Support

FAM-2355          2.0          *          B                                                                    L

Goal.  Observe a TACC.

Requirement.  While observing a TACC, discuss the positions, equipment and operations in relation to the DASC.

Performance Standard.  Complete a tour of a TACC.

Instructor.  SI

Prerequisite.  8001, 8002, 8003.

Ordnance.  None.

Range.  None.

External Syllabus Support.  TACC.

Reference.
1.  MCWP 3-25.4, Marine Tactical Air Command Center Handbook

FAM-2365        2.0      *        B                                              L

Goal.  Observe a Fire Support Coordination Center (FSCC).

Requirement.  While observing an FSCC in a field environment discuss the positions, equipment, and operations in relation to the DASC.

Performance Standard.  Complete a tour of a FSCC.

Instructor.  SI

Prerequisite.  8001, 8003, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  An operational FSCC.

Reference.
1.  MCWP 3-16, Fire Support Coordination in the Ground Combat Element

FAM-2370        2.0      *        B                                              L

Goal.  Observe the Tactical Air Operations Center (TAOC) or an EW/C.

Requirement.  Observe TAOC or EW/C positions, equipment, and operations.

Performance Standard.  Complete a tour of a TAOC or an EW/C.

Instructor.  SI

Prerequisite.  8001, 8003, 8004.

Ordnance.  None.

Range. None.

External Syllabus Support. TAOC.

Reference.
1. MCWP 3-25.7, TAOC Handbook

FAM-2375  2.0  *  B             L

  Goal. Observe an Air Traffic Control Facility (ATCF).

  Requirement. While observing an Air Traffic Control Facility (ATCF) discuss the positions, equipment, and operations in relation to the DASC.

  Performance Standard. Complete a tour of an ATCF.

  Instructor. SI

  Prerequisite. 8001, 8003, 8005.

  Ordnance. None.

  Range. None.

  External Syllabus Support. None.

  Reference.
  1. MCWP 3-25.8, MATCD Handbook

7.7.10 PROCEDURAL CONTROL (CTRL)

7.7.10.1 Purpose. To develop proficiency in procedurally controlling manned and unmanned aircraft. Upon completion of this portion of the training syllabus the Air Support Control Officer will have attained all skills required to be considered a Core Skill proficient DASC Tactical Air Director and Helicopter Director.

7.7.10.2 General

  Admin Notes. None.

  Prerequisites. 8000, 8020, 8040.

  Crew Requirement. Core skill proficient DASC Crew.

CTRL-2400  2.0  *  B             L

  Goal. Extract critical information from the ATO, ACO, and SPINS documents.

  Requirement. Given an ATO, ACO, SPINS, OPERATIONS ORDER, and references, extract key information necessary for the control of fixed-wing, rotary wing and unmanned aircraft as follows:

  1. State the purpose, and use of each of each document.
  2. Identify the agencies that use it.
  3. Extract ATO information necessary to:
    a. Control.
    b. Route.
    c. Divert.

4. Document extracted control information in a RIO Log.
5. Extract ACO information.
6. Extract information pertinent to:
    a. Frequencies.
    b. Specific instructions for any deviations from OPORD and ACO.

Performance Standard.  Complete the requirement items without error.

Instructor.  BI

Prerequisite.  8000, 8020, 8040.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 6-0, Communications Systems
2. MCWP 3-25, Control of Aircraft and Missiles
3. MCWP 3-25.5, DASC Handbook
4. MCWP 3-40.1, MAGTF C2
5. MCWP 3-40.2, Information Management
6. MCWP 3-40.3, MAGTF Communications System

CTRL-2405     4.0     *     B                                             S

Goal.  Conduct Tactical Air Director (TAD) or Helicopter Director (HD) duties in a Chemical Biological Radiological Nuclear (CBRN) environment.

Requirement.  Given an operational DASC, begin in MOPP-0 and graduate to MOPP-IV over a four hour period.  While increasing MOPP levels:

1. Conduct an HD or TAD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF Brief using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  8000, 8020, 8040.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by the operational tempo, digital backbone, and a FFCC/FSCC.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  MCWP 3-37.3, MTTP for Chemical, Biological, Radiological, and Nuclear (CBRN) Decontamination Operations

CTRL-2410     2.0     365     B,R,M                                                                L/S

Goal.  Maintain information on the DASC Tactical Display.

Requirement.  Given a tactical data system (TDS), network initialization parameters, an OPTASK LINK, track supervision net (TSN), and data networks, demonstrate the ability to:

1.  Configure your local system track list.
2.  Import an Air Tasking Order.
3.  Apply the appropriate display filters.
4.  Plot land units/platforms as a track.
5.  Plot geometries as a track.
6.  Pair two or more tracks.
7.  Perform manual correlation actions.
8.  Drop a track.
9.  Apply a primary hook for a track.
10.  Apply a secondary hook for a track.
11.  Hook that specified track.
12.  Apply a pointer onto the interface.
13.  Provide a bearing and range between two objects.
14.  Create an overlay object.
15.  Import an Airspace Control Order as an overlay file.
16.  Create an overlay object.
17.  Organize an overlay file IAW unit SOP.
18.  Share an overlay.

Performance Standard.  With the aid of the CAC2S System user's manual, complete the listed requirements. Minor errors corrected by the Marine are acceptable.

Instructor.  BI

Prerequisite.  2808, 2809, 2811, 2814, 2819, 8000, 8020, 8040.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-6, air and fire support missions, digital backbone, FFCC/FSCC, and external JREAP capable system.

Reference.
1.  TM 12041A/12050A-OD/2, System User Manual for CAC2S
2.  MSCT Display User Manual, Raytheon / Solipsys
3.  CJCSM 3115.01, Joint Data Network Operations
4.  CJCSM 6120.01, Joint Multi TDL Operating Procedures
5.  Unit DASC SOP

CTRL-2415     4.0     730     B, R, M                                                              L/S

Goal. Level 1 - Control FW or RW aircraft.

Requirement. Given a scenario, supporting documentation, an ASE or DASC, conduct the following tasks while performing as a member of a DASC crew.
1. Conduct an HD or TAD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF Brief using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2400, 8000, 8020, 8040.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

CTRL-2420        4.0        *        B                                                    L/S

Goal. Level 2 - Control FW or RW aircraft.

Requirement. Given a scenario, supporting documentation, an ASE or DASC, conduct the following tasks while performing as a member of a DASC crew.
1. Conduct an HD or TAD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF Brief using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. 2400, 2415, 8000, 8020, 8040.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CTRL-2425        4.0        *        B                                                    L/S

Goal.  Level 3 - Control FW or RW aircraft.

Requirement.  Given a scenario, supporting documentation, an ASE or DASC, conduct the following tasks while performing as a member of a DASC crew.
1.  Conduct an HD or TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF Brief using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2400, 2415, 2420, 8000, 8020, 8040.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

7.7.11  SENIOR AIR DIRECTOR (SAD)

7.7.11.1  Purpose.  To develop proficiency in crew and system management involved in direct air support operations.

7.7.11.2  General

Admin Notes.  Upon completion of this portion of the training syllabus, the Air Support Control Officer will have attained all skills required to be considered a Core Skill proficient DASC Senior Air Director.

Prerequisites.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355,

2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8062.

Crew Requirement.  DASC Crew.

SAD-2455          8.0       *       B                                                                                    S/L

Goal.  Conduct the duties of Senior Air Director (SAD) during echelon operations and passage of control.

Requirement.  Given the references, a DASC, an execution checklist, and a minimum of an OpTempo 1 exercise, pass or receive control.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  JP 1-02, Joint Dictionary of Definition and Terms
2.  JP 3-09, Joint Fire Support
3.  MCDP 3, Expeditionary Operations
4.  MCWP 3-1, Ground Combat Operations
5.  MCWP 3-16, Fire Support Coordination in the Ground Combat Element
6.  MCWP 3-25.5, DASC Handbook
7.  MCWP 3-43.1, Radio Operations
8.  MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

SAD-2460          1.0       *       B                                                                                    L

Goal.  State the duties and responsibilities of a DASC Senior Air Director.

Requirement.  State the roles and responsibilities of a DASC Senior Air Director, to include at a minimum the following:

1.  Conduct crew brief/debrief.
2.  Maintain logbook.
3.  Ensure each crewmember are executing their duties.
4.  Match available aviation assets with requests.
5.  Pass information to crewmembers.
6.  Manage MAGTF information systems.
7.  Manage assigned radio nets.
8.  Coordinate with external agencies.

9. Coordinate supporting arms integration.
10. Phase control ashore as required.
11. Conduct a passage of control.
12. Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard. Pass an exam.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

SAD-2465          4.0          *          B                                                                    L

Goal. Match appropriate available aviation assets with requests.

Requirement. Given a map, a list of aircraft with ordnance loads (flying and on strip alert), and ten immediate air support requests for each of the following:  Assault Support Request, Joint Tactical Air Strike Request, and a Casualty Evacuation form:

1. Assign appropriate aircraft to each immediate air support request.
2. Explain rationale for pairing of aircraft with request to evaluator(s).

Performance Standard. All 30 requests are assigned to an appropriate aircraft and verbal explanation provided supports the decision to select that aircraft.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. MCWP 3-2, Aviation Operations
3. MCWP 3-25.5, DASC Handbook
4. MCRP 3-16.6A, TTP for Joint Application of Firepower
5. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

SAD-2470        1.0      *        B                                                    L

Goal.  Determine prioritization of communication links.

Requirement.  Given the reference, a list of communication paths, DASC scenario with communication link failures, perform the following:

1. Establish net restoration priority.
2. Explain restoration priorities.

Performance Standard.  The instructor will verbally inform the trainee of three radio, JRE, and data failures.  Trainee will brief the instructor on the restoration priority.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCWP 3-25.5, DASC handbook

SAD-2475        1.0      *        B                                                    L

Goal.  Extract critical information from supporting documents.

Requirement.  Demonstrate the ability to extract critical information required for Direct Air Support Center (DASC) operations including but not limited to Fire Support Coordination Measures (FSCMs), Airspace Coordination Measures (ACMs), Scheme of Maneuver, Communications nets and frequencies, and aircraft missions from the following documents:

1. Warning Orders, Operations Orders (OPORDs) and Fragmentary Orders (FRAGOs).
2. Communications Plans and Automated Communications-Electronics Operating Instructions (ACEOI).
3. Airspace Control Plans (ACPs).
4. Airspace Control Orders (ACOs).
5. Air Tasking Orders (ATOs) and Special Instructions (SPINS).
6. OPTASK Link.

Performance Standard.  Complete the required items IAW the reference. The instructor will verify the required information is extracted; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

7.7.12  TACTICAL DATA LINKS (TDL)

7.7.12.1  Purpose.  To develop DASC experience in establishing and operating advanced datalinks.

7.7.12.2  General

Admin Notes.  Tactical Data Link events are located in the MAWTS-1 C3 Course Catalog in order to maintain standardized training across the MACCS.  The below listed TDL events are to be completed by DASC personnel, position dependent.

Prerequisites.  None.

Crew Requirement.  None.

TDL-2800          1.0          *          B                                                                          G

Goal.  Identify the purpose of documents that enable Tactical Data Link (TDL) operations.

Requirement.  Given the documents below, identify their purpose:

1.  Guard Chart.
2.  Communication Electronic Operating Instruction (CEOI).
3.  Operations Order Annex K.
4.  Operations Order Annex U.
5.  Link 16 Network Description Document.
6.  Communications Security (COMSEC) Callout.
7.  Operational Tasking Data Link (OPTASK LINK).
8.  Satellite Access Authorization (SAA).
9.  Joint Multi-TDL Operating Procedures (JMTOP).

Performance Standard.  With the aid of references, complete the required items IAW the reference.  Minimal self-corrected errors allowed.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 5-1, Marine Corps Planning Process
2.  MCWP 3-40.3, MAGTF Communications Systems
3.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)

TDL-2803      1.0    *      B                                                                    G

Goal.  Identify DASC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1.  Radio systems.
2.  Data link systems.
3.  C2 Systems.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCRP 5-12D, Organization of Marine Corps Forces
2.  MCWP 3-25.5, Direct Air Support Center Handbook
3.  Approved Core METL applicable to the unit
4.  MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-2808      1.0    *      B                                                                    G

Goal.  Describe the Joint Data Network.

Requirement.
1.  Define the Joint Data Network (JDN).
2.  State the responsibilities of the Joint Data Network Operations Officer (JDNO).
3.  State the purpose of the Global Command and Control System (GCCS) Family of Systems (FoS).
4.  Define Common Operational Picture (COP).
5.  Define Common Tactical Picture (CTP).
6.  Define Tactical Picture.
7.  State the components of the CTP.
8.  Describe track management.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 3115.01: Volume 1, Joint Data Network Operations
2. CJCSM 3115.02: Volume 2, Common Tactical Picture Data Management
3. CJCSI 3115.01, CTP Reporting Requirements
3. CJCSI 3151.01B, GCCS COP Reporting Requirements

TDL-2809        2.0        *        B                                                        G

Goal. Describe the Multi-Tactical Data Link (TDL) Interface.

Requirement.
1. State the concept and information exchange of the Multi-TDL Interface.
2. State the technical functions of the Multi-TDL Interface.
3. List the three elements of the Multi-TDL Interface.
4. Define the Basic Interface and list its three data links.
5. Identify the characteristics of Link 11.
6. Identify the characteristics of Link 11B.
7. Identify the characteristics of Link 16.
8. Define the Extended Interface.
9. Identify the purpose of the Joint Range Extension Application Protocol (JREAP).
10. Define the following interface voice coordination nets:
    a. Air Defense Command and Control Net (ADCCN)
    b. Engagement Control Net (ECN)
    c. Datalink Coordination Net (DCN)
    d. Track Supervision Net (TSN)
    e. Voice Product Net (VPN)
11. Describe the delegation of responsibilities for the conduct of the Multi-TDL operations at the Joint Task Force (JTF) level and below.
12. State the two Interface Control Officer (ICO) execution functions.
13. State the responsibilities of the Link 16 Manager.
14. State the responsibilities of the Link 11/11B Manager.
15. State the responsibilities of the Track Data Coordinator (TDC).
16. List the minimum requirements for Services that operate the Multi-TDL Interface.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard

TDL-2811        2.0        *        B                                                        G

Goal.  Identify basic track data.

Requirement.  Perform the following:

1. Define track number.
2. Identify the value and purpose of the following:
   a. Low track numbers.
   b. High track numbers.
   c. Data forwarding track numbers.
2. Identify five track environments.
3. Identify the six standard track identifications.
4. Define Track Quality.
5. Define real-time track reports.
6. Identify how non real-time tracks are distinguished from real-time tracks.
7. Identify when non-real time tracks are used.
8. Define Reporting Responsibility (R2).
9. Define a common track.
10. Define correlation.
11. Define automatic correlation.
12. Describe track number negotiations during correlation.
13. Define Manual Correlation.
14. Explain de-correlation.
15. Define Dual Designation.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2812        2.0        *        B                                             G

Goal.  Identify information contained within J-Series Messages that may be displayed to the operator.

Requirement.  Define the following:

1. Identify the six Precise Participant Location and Identification (PPLI) message types.
2. Identify the information conveyed within J2.X PPLI messages.
3. Identify the main difference between a J2.0 Indirect PPLI message and the other J2.X PPLI messages.
4. Identify the five Platform Status and System Status message types.
5. Identify the information conveyed within J13.X Platform and System Status messages.
6. Identify the eight Surveillance message types.
7. Identify information conveyed within J3.X Surveillance messages.
8. Identify the characteristics of each IFF/SIF Code.

9.  Identify the differences between a sensor measured altitude, Mode IIIC altitude, and PPLI altitude.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2813        1.0      *        B                                                        G

Goal.  Identify tactical data link orders associated with Network Participating Group (NPG) 8 and 9.

Requirement.  With the aid of reference, perform the following:

1.  State the purpose of the J9.0 message.
2.  State the purpose of the J12.0 Message.
3.  State the purpose of the J10.3 message.
4.  State the purpose of the J10.2 message.
5.  State the purpose of the J12.6 message.
6.  State the relationship between the J9.0 and the J12.0.
7.  State the OPTASK LINK requirements for using NPG-9.
8.  Describe the handshake process and corresponding J series messages that are used while conducting Air Control (NPG-9).

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2814        2.0      *        B                                                        G

Goal.  Describe Data Filters.

Requirement.  With the aid of reference, perform the following:

1. Identify the purpose of data filters.
2. State operational factors that may dictate the use of data filters.
3. Describe transmit filters.
4. Describe forwarding filters.
5. Describe receive filters.
6. Explain why receive filters require an equally restrictive transmit filter.
7. Describe display filters.
8. State the difference between a force filter and a unit filter.
9. State the purpose of the following data filter types:
   a. Geographic filters.
   b. Fixed or slaved filters.
   c. Identification filters.
   d. Environment filters.
   e. Reference point filters.
   f. EW filters.
   g. Special Processing Indicator (SPI) filters.
10. Describe how Force Tell and Emergency Data interact with data filters.
11. State the personnel responsible for data filters and their associated duties.
12. Describe the characteristics of prearranged and non-prearranged data filters.
13. State the function of filter numbers and identify codes associated with the ten filter unit types.
14. List essential information that should be included when establishing a data filter.
15. State the doctrinal restrictions on the establishment of data filters.
16. State the difference between a data filter and a link connection.
17. Identify the unique filtering capabilities of different gateways IAW the references.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS
5. JRE Version 5.3.x Software User Guide
6. ADSI Version 14.1.1 Software Users Guide

TDL-2817          3.0          *          B                                                                  G

Goal. Define terms associated with Link 16.

Requirement. Given references, define:

1. Active Synchronization.
2. Backlink.
3. Command and Control JTIDS/MIDS Unit (C2 JU).
4. Conditional Radio Silence Mode.

5. Contention Access Mode.
6. Continuation Word.
7. Dedicated Access Mode.
8. Donor.
9. Dynamic Network Management.
10. Extension Word.
11. Geodetic Position Quality.
12. Header Message.
13. Host System.
14. Initial Entry.
15. Initial Entry JTIDS/MIDS Unit (IEJU).
16. Initial Word.
17. Machine Receipt.
18. Multifunctional Information Distribution System (MIDS).
19. Minimum Implementation.
20. Mode 1, 2, and 4 Communications.
21. Net Number.
22. Network Participation Group.
23. Network Time Reference.
24. Non-Command and Control JTIDS/MIDS Unit (NonC2 JU).
25. Pool.
26. Passive Synchronization.
27. Recurrence Rate.
28. Reed-Solomon Code.
29. Relative Position Quality.
30. Relay Block.
31. Round-Trip Timing (RTT).
32. Stacked Net.
33. Synchronization.
34. Time (System & Terminal).
35. Time Quality (QT).
36. Time Slot.
37. Time Slot Reallocation Access Mode.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2818        3.0        *        B _____ G

Goal.  State the characteristics of Link 16.

Requirement.  Perform the following:

1. Identify terminal capacity of a Link 16 terminal.
2. Identify spectral capacity of a Link 16 network.
3. Identify the two types of security used by Link 16.
4. Identify the organization of a Secure Data Unit (SDU).
5. Identify the purpose of the JANUS Table.
6. Identify the two range modes associated with Link 16.
7. Define direct connectivity.
8. Define relayed connectivity.
9. Identify the purpose of an Initialization Data Load (IDL).
10. Locate the website and phone number of the USMC Network Design Facility (NDF).
11. Define time division multiple access.
12. Identify the acceptable time error when initializing a Link 16 terminal.
13. Explain the synchronization process and the importance of each message in the synchronization process:
    a. Precise Participate Location and Identification (PPLI)
    b. Initial Entry Message (IEM)
    c. Round Trip Timing (RTT) Message
14. Identify the two Link 16 duties that transmit the IEM.
15. Identify the frequency range used by Link 16.
16. State the purpose of pulse deconfliction.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. CJCSI 6232.01_, Link 16 Spectrum Deconfliction

TDL-2819          2.0        *          B                                                                      G

Goal.  State the characteristics of the Joint Range Extension Application Protocol (JREAP).

Requirement.  Perform the following:

1. Describe JREAP A.
2. Select the data rates of JREAP A.
3. Describe JREAP A roles.
4. Describe the JREAP A Transmission Sequence List (TSL).
5. Explain the difference between JREAP A and Satellite J.
6. Describe JREAP B.
7. Describe JREAP B modes of operation.
8. Select JREAP B data rates.
9. Describe JREAP C.
10. Describe JREAP C modes of operation.

11. Define the following terms associated with JREAP:
   a. Common Time Reference
   b. Demand Assigned Multiple Access (DAMA)
   c. Joint Range Extension (JRE)
   d. JRE Network Controller
   e. JRE Source Track Number
   f. Link 16 Zone
   g. Multicast
   h. Packet
   i. Port
   j. Secondary Track Number
   k. Token Passing
   l. Unicast

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-3011, JREAP Interface Standard

TDL-2820      2.0      *      B                                              G

Goal. Identify mission essential segments, sets, and fields within the OPTASK LINK message.

Requirement. With the aid of reference, perform the following:

1. Identify the purpose of the OPTASK LINK.
2. Identify who is responsible for creating and disseminating the OPTASK LINK.
3. State the purpose of the Common Message Processor (CMP) and discuss its relationship to the OPTASK LINK.
4. Define Segment.
5. Define Set.
6. Define Field.
7. Identify the information contained in the Header of the OPTASK LINK to include the following sets:
   a. GENTEXT/CONDUCT OF TDL OPERATIONS.
   b. POCLINK.
   c. DLRPGRID.
8. Identify the information contained in the IVCCN Segment.
9. Identify the information contained in the CORRDEC set.
10. Identify the information contained in THE HEADING/MULTILINK INTERFACE COORDINATION REQUIREMENTS set to include the following GENTEXT sets:
   a. FORCE INTERFACE INFORMATION.
   b. REGIONAL INTERFACE INFORMATION.
   c. SECTOR INTERFACE INFORMATION.
   d. CHANGE DATA ORDER AUTHORITIES.

    e.  CONTINGENCY PROCEDURES.
    f.  TRACK PRODUCTION AREA GUIDANCE.
11.  Identify the information contained in the MULCDUTY set.
12.  Identify the information contained in the Link 11 Segment to include the following sets:
    a.  POLLSEQ.
    b.  LSYSDATA.
    c.  CRYPTDAT.
    d.  DALKFREQ.
    e.  FORCFLTER.
    f.  LPUDATA.
    g.  UNITFLTR.
13.  Identify the information contained in the Link 16 Segment to include the following sets:
    a.  JNETWORK.
    b.  CPD.
    c.  JCRYPDAT.
    d.  JTRNMODE.
    e.  JSTNETS.
    f.  JUDATA.
    g.  SQDDATA.
14.  Identify the information contained in the Joint Range Extension (JRE) Data Segment to include the following sets:
    a.  UNITINFO.
    b.  LNKPROT.
    c.  SECTEL.
    d.  SECINTER.
    e.  SATCONN.
    f.  CONMATRX.
15.  Identify the information contained in the 1MANCODE set.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures
2.  Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

TDL-2822          1.0          *          B                                                              G

Goal.  State the Interface Control Officer responsibilities.

Requirement.  Perform the following:

1.  List the eight Interface Control Officer (ICO) planning functions.
2.  List the two ICO execution functions.
3.  List the typical planning input requirements for the following areas:
    a.  Operational environment.
    b.  Interface participants.

c. Capabilities and limitations of supporting tactical data links.

4. List the doctrinal responsibilities of the Tactical Air Command Center ICO.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MCWP 3-25.4, TACC Handbook

TDL-2823        1.0        *        B                                                        G

Goal. State the characteristics of the Variable Message Format (VMF).

Requirement. Given the reference, explain:

1. The purpose of Variable Message Format (VMF) messages.
2. The characteristics of VMF messages.
3. VMF message functional areas.
4. Transmission medium options used to exchange VMF messages.
5. Unit Reference Numbers.
6. How URNs are assigned.
7. The purpose of the K01.2 Unit Reference Query/Response message.
8. Position reporting requirements of VMF units.
9. The purpose of a K05.1 Position Report.
10. The purpose of a K04.1 Observation Report.
11. VMF multi-cast groups.
12. K Series and J Series data forwarding.

Performance Standard. With the aid of reference, state (verbally or written) the required items.

Instructor. SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 3115.01, Joint Data Network Operations
2. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
3. MIL-STD-188-220, Digital Message Transfer Device Subsystems
4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard

5. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

6. MIL-STD-6017, VMF Interface Standard

7. MIL-STD-6020, Data Forwarding Between TDLs

7.7.13  COMMAND AND CONTROL SYSTEMS (C2SYS)

7.7.13.1  Purpose.  To develop proficiency in utilizing the command and control systems used in DASC operations.

7.7.13.2  General

Admin Notes.  Command and control system events are located in the MAWTS-1 C3 Course Catalog in order to maintain standardized training across the MACCS.  The table below lists all C2SYS events that are to be completed by DASC personnel position dependent.  See the MAWTS-1 C3 Course Catalog for the events listed in the table below.

Prerequisites.  None.

Crew Requirement.  None.

| EVENT CODE | EVENT NAME | POSITION | PRE-REQS |
|---|---|---|---|
| C2SYS-2900 | Set up profile on TBMCS client | TAD, HD, SAD, DOIC | NONE |
| C2SYS-2901 | Access TBMCS on line master help index | TAD, HD, SAD, DOIC | 2900 |
| C2SYS-2902 | Utilize the TBMCS alerts service web application | TAD, HD, SAD, DOIC | 2900, 2901 |
| C2SYS-2910 | Utilize ESTAT | TAD, HD, SAD, DOIC | 2900, 2901, 2902 |
| C2SYS-2911 | Utilize WARP | TAD, HD, SAD, DOIC | 2900, 2901, 2902 |
| C2SYS-2921 | Operate JTCW | TAD, HD, SAD, DOIC | NONE |
| C2SYS-2940 | IRC | TAD, HD, SAD, DOIC, ASE, ASLT | NONE |

7.8  MISSION SKILL TRAINING (3000)

7.8.1  Purpose.  Mission Skill training consists of advanced events that provide training on processes within the DASC and develop the trainee's ability to perform their duties as a member of a DASC crew while conducting DASC operations.  Once required Mission Skills are completed, the trainee can be recommended to proceed to qualification evaluation or designation.

7.8.2  General

7.8.2.1  Admin Notes.  The following requirements apply to the Levels of DASC Operational Tempo, where applicable:

Level 1:  Minimum per hour: 2 F/W ATO missions, 2 R/W ATO missions, 2 immediate requests, and 1 fire mission.

Level 2:  Minimum per hour: 4 F/W ATO missions, 4 R/W ATO missions, 3 immediate requests, and 2 fire missions.

Level 3: Minimum per hour: 6 F/W ATO missions, 6 R/W ATO missions, 4 immediate requests, and 3 fire missions.

Level 4: Minimum per hour: 8 F/W ATO missions, 8 R/W ATO missions, 5 immediate requests, and 4 fire missions.

Level 5: Minimum per hour: 10 F/W ATO missions, 10 R/W ATO missions, 6 immediate requests, and 5 fire missions.

7.8.2.2 <u>Prerequisite</u>.  Complete all Core Skill events required for the respective crew position.

7.8.2.3 <u>Stages</u>

| MISSION SKILL PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| HELICOPTER DIRECTOR (HD) | 7.8.3 | 7-70 |
| TACTICAL AIR DIRECTOR (TAD) | 7.8.4 | 7-73 |
| SENIOR AIR DIRECTOR (SAD) | 7.8.5 | 7-77 |
| AIR SUPPORT LIAISON TEAM (ASLT) | 7.8.6 | 7-83 |
| AIR SUPPORT ELEMENT (ASE) | 7.8.7 | 7-85 |
| DASC OIC (DOIC) | 7.8.8 | 7-86 |

7.8.3 <u>HELICOPTER DIRECTOR (HD)</u>

7.8.3.1 <u>Purpose</u>.  To develop proficiency in procedurally controlling manned and unmanned aircraft.

7.8.3.2 <u>General</u>

<u>Admin Notes</u>.  Upon completion of this portion of the training syllabus the Air Support Control Officer will have attained all skills required to be considered a Mission Skill proficient DASC Helicopter Director.

<u>Prerequisite</u>.  2400, 8000, 8020, 8040, 8062.

<u>Crew Requirements</u>.   A core skill proficient ASE or DASC crew.

HD-3000        4.0       *       B                                                                L

<u>Goal</u>.  Level 1 - Control RW aircraft.

<u>Requirement</u>.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate HD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

HD-3005          4.0       *        B                                                      L/S

Goal.  Level 2 - Control RW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC HD to include:

1.  Conduct an HD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate HD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3000, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

HD-3010          4.0      1095     B, R, M                                                 L/S

Goal.  Level 3 - Control RW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC HD to include:

1.  Conduct an HD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate HD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3000, 3005, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

HD-3015          4.0      *          B                                                                      L/S

Goal.  Level 4 - Control RW aircraft.

Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC HD to include:

1.  Conduct an HD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate HD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3000, 3005, 3010, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

HD-3020        4.0       *        B                                                                          L/S

Goal.  Level 5 - Control RW aircraft.

Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC HD to include:

1.  Conduct an HD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate HD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3000, 3005, 3010, 3015, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

7.8.4  TACTICAL AIR DIRECTOR (TAD)

7.8.4.1  Purpose.  To develop proficiency in procedurally controlling manned and unmanned aircraft.

7.8.4.2  General

Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Control Officer will have attained all skills required to be considered a Mission Skill proficient DASC Tactical Air Director (TAD).

Prerequisite.  2400, 8000, 8020, 8040, 8062.

Crew Requirements.  A core skill proficient ASE or DASC crew.

TAD-3100          4.0          *          B                                                                                          L

Goal.  Level 1 - Control FW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC TAD to include:

1.  Conduct a TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate TAD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TAD-3105          4.0          *          B                                                                                          L/S

Goal.  Level 2 - Control FW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC TAD to include:

1.  Conduct a TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.

5.  Divert the aircraft.
6.  Maintain a complete and accurate TAD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3100, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TAD-3110        4.0        1095     B, R, M                                                              L/S

Goal.  Level 3 - Control FW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC TAD to include:

1.  Conduct a TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate TAD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3100, 3105, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo,

digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TAD-3115        4.0        *        B                                                                    L/S

Goal.  Level 4 - Control FW aircraft.

Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC TAD to include:

1.  Conduct a TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate TAD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3100, 3105, 3110, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TAD-3120        4.0        *        B                                                                    L/S

Goal.  Level 5 - Control FW aircraft.

Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC TAD to include:

1.  Conduct a TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate TAD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within

the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FSCMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2400, 3100, 3105, 3110, 3115, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

7.8.5  SENIOR AIR DIRECTOR (SAD)

7.8.5.1  Purpose.  To develop proficiency in crew and system management involved in direct air support operations.  Upon completion of this portion of the training syllabus the ASCO will have obtained the required skills to be recommended for qualification as a DASC Senior Air Director.

7.8.5.2  General

Admin Note.  None.

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Crew Requirement.  A core skill proficient DASC crew.

SAD-3200          4.0          *          B                                                             L/S

Goal.  Level 1 – Perform as an SAD.

Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the following tasks while managing a crew:

1.  Conduct crew brief/debrief.
2.  Maintain logbook.
3.  Ensure each crewmember is executing their duties.
4.  Match available aviation assets with requests.
5.  Pass information to crewmembers.
6.  Manage MAGTF information systems.
7.  Manage assigned radio nets.
8.  Coordinate with external agencies.
9.  Coordinate supporting arms integration.
10.  Phase control ashore as required.
11.  Conduct a passage of control.

12. Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, TACC, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

SAD-3205          4.0          *          B                                                              L/S

Goal.  Level 2 – Perform as an SAD.

Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the following tasks while managing a crew:

1. Conduct crew brief/debrief.
2. Maintain logbook.
3. Ensure each crewmember is executing their duties.
4. Match available aviation assets with requests.
5. Pass information to crewmembers.
6. Manage MAGTF information systems.
7. Manage assigned radio nets.
8. Coordinate with external agencies.
9. Coordinate supporting arms integration.
10. Phase control ashore as required.
11. Conduct a passage of control.
12. Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, TACC, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

SAD-3210        4.0        1095        B, R, M                                                                                    L/S

Goal.  Level 3 – Perform as an SAD.

Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the following tasks while managing a crew:

1.  Conduct crew brief/debrief.
2.  Maintain logbook.
3.  Ensure each crewmember is executing their duties.
4.  Match available aviation assets with requests.
5.  Pass information to crewmembers.
6.  Manage MAGTF information systems.
7.  Manage assigned radio nets.
8.  Coordinate with external agencies.
9.  Coordinate supporting arms integration.
10.  Phase control ashore as required.
11.  Conduct a passage of control.
12.  Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, TACC, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

SAD-3215        4.0        *        B                                                                                    L/S

Goal.  Level 4 – Perform as an SAD.

Requirement. Given a scenario, supporting documentation, and a DASC, conduct the following tasks while managing a crew:

1. Conduct crew brief/debrief.
2. Maintain logbook.
3. Ensure each crewmember is executing their duties.
4. Match available aviation assets with requests.
5. Pass information to crewmembers.
6. Manage MAGTF information systems.
7. Manage assigned radio nets.
8. Coordinate with external agencies.
9. Coordinate supporting arms integration.
10. Phase control ashore as required.
11. Conduct a passage of control.
12. Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, TACC, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

SAD-3220        4.0        *        B                                                          L/S

Goal. Level 5 – Perform as an SAD.

Requirement. Given a scenario, supporting documentation, and a DASC, conduct the following tasks while managing a crew:

1. Conduct crew brief/debrief.
2. Maintain logbook.
3. Ensure each crewmember is executing their duties.
4. Match available aviation assets with requests.
5. Pass information to crewmembers.
6. Manage MAGTF information systems.
7. Manage assigned radio nets.
8. Coordinate with external agencies.
9. Coordinate supporting arms integration.
10. Phase control ashore as required.
11. Conduct a passage of control.

12. Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, TACC, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

SAD-3225        4.0        *        B                                                                L/S

Goal. Manage a DASC extension.

Requirement. Given the references, supporting documents, a live or simulated DASC, and at least one live or simulated DASC extension:

1. Identify and manage information exchange requirements between the DASC and the extension.
2. Plan and utilize primary, secondary, and tertiary (as required) communication channels between the DASC and the extension.
3. Supervise the reporting of information from the extension to higher and adjacent agencies.
4. Implement casualty plan for the extension.

Performance Standard. Perform the required items. The trainee should utilize the extension so that it is an asset to the MACCS.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, TACC, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.

1. MCWP 3-16, Fire Support Coordination in the GCE
2. MCWP 3-25, Control of Aircraft and Missiles
3. MCWP 3-25.5, DASC Handbook

SAD-3230      4.0     *     B                                            S/L

Goal. Coordinate Airspace with Joint aviation C2 Agency(ies) within a joint environment.

Requirement. Given the proper planning documents in a Joint Force environment, coordinate real-time airspace requirements with the appropriate authorities.

Performance Standard. Perform the requirement items. Airspace coordination should be completed in a timely manner for cross-boundary fires (aviation or surface to surface).

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. Digital backbone, TACC, FFCC/FSCC, and other service C2 agency(ies).

Reference.
1. JP 1-02, Joint Dictionary of Definitions and Terms
2. JP 3-02, Amphibious Operations
3. JP 3-09, Joint Fire Support
4. JP 3-52, Joint Airspace Control
5. MCWP 3-25.5, DASC Handbook
6. Squadron SOP

SAD-3235      4.0     *     B                                            S/L

Goal. Coordinate airspace for Guided Multiple Launch Rocket System (GMLRS) or Army Tactical Missile System (ATACMS).

Requirement. In accordance with the references or theater SOP, coordinate airspace internally to the DASC, and externally, for the employment of GMLRS or ATACMS rocket artillery.

Performance Standard. Coordinate the airspace in a timely manner, ensuring timeliness of fire support and safety of flight for aircraft under DASC control.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. Digital backbone, TACC, FFCC/FSCC, GMLRS, ATACMS, and other service C2 agency(ies).

Reference.
1. MCWP 3-16, Fire Support Coordination in the Ground Combat Element
2. MCWP 3-16.1C, MLRS Operations
3. MCWP 3-25, Control of Aircraft and Missiles
4. MCWP 3-25.5, DASC Handbook

SAD-3240          1.0        *        B                                                        L/S

Goal. Utilize an execution checklist.

Requirement. Given appropriate operations documents, an execution checklist with an item that requires DASC action, and in accordance with the references:

1. Identify appropriate action to be taken.
2. Direct crew to perform appropriate action.
3. Supervise DASC crew information flow.
4. Coordinate with external agencies as required.

Performance Standard. Perform the required items. Trainee should immediately recognize the execution checklist item and determine the relevance to the DASC. Instructor input should be as minimal as possible, but minor input is allowed.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. NTTP 3-22.5 USMC Assault Support TACSOP
2. MCWP 3-16, Fire Support Coordination in the Ground Combat Element
3. MCWP 3-25, Control of Aircraft and Missiles
4. MCWP 3-25.5, DASC Handbook

7.8.6 AIR SUPPORT LIAISON TEAM OIC (ASLT)

7.11.6.1 Purpose. To develop expertise in ASLT employment, DASC/FSCC information exchange requirements, and management of a liaison team. Upon completion of this portion of the training syllabus the ASCO will have obtained the required skills to be Mission Skill proficient as an ASLT OIC.

7.8.6.2 General

Admin Notes. None.

Prerequisite. 3005, 3010, 3015, 3020, 6230

OR

3105, 3110, 3115, 3120, 6235

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2250, 2255, 2260, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902,  2921, 2940, 3000, 3100, 3300, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Crew Requirement.   Core skill proficient ASLT.

ASLT-3300        4.0        730        B, R, M                                                            L/S

Goal.  Perform as an ASLT OIC.

Requirement.  Given appropriate operations documents, a T/O and T/E and other planning documents, in accordance with the references, operate as a liaison officer in a Battalion or higher FSCC.  Conduct planning and execution for the following items:

1.  Analyze and identify air support requirements for the GCE.
2.  Analyze information exchange requirements and conduct information exchange between the DASC and the supported FSCC.
3.  Understand GCE scheme of maneuver and its impacts on Air Support.
4.  Understand impacts on FSCM/ACM changes on Direct Air Support Operations.
5.  Understand and utilize primary, secondary, and tertiary (as necessary) means of communication to the DASC.

Performance Standard.  Complete all the requirement items IAW the references.  Instructor will discuss each item with the trainee.

Instructor.  SI

Prerequisite.  3005, 3010, 3015, 3020, 6230

OR

3105, 3110, 3115, 3120, 6235

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2250, 2255, 2260, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902,  2921, 2940, 3000, 3100, 3300, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  FSCC, air and fire support missions as defined by operational tempo level three, a DASC, S-1, S-2, S-3, S-4, S-6.

Reference.
1.  MCDP 1-0, Operations
2.  MCWP 3-16, Fire Support Coordination in the GCE
3.  MCWP 3-16.6, Supporting Arms, Observer, Spotter, and Controller

4.  MCWP 3-25.5, DASC Handbook

7.8.7  <u>AIR SUPPORT ELEMENT OIC (ASE)</u>

7.8.7.1  <u>Purpose</u>.  To develop expertise in ASE employment, DASC/Navy information exchange requirements, and management of an ASE.  Upon completion of this portion of the training syllabus the ASCO will have obtained the required skills to be Mission Skill proficient as an ASE OIC.

7.8.7.2  <u>General</u>

<u>Admin Notes</u>.  None.

<u>Prerequisite</u>.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2215, 2220, 2225, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6255, 6230, 8000, 8020, 8040, 8062.

<u>Crew Requirement</u>.  Core skill proficient ASE.

ASE-3350          4.0          730          B, R, M                                                              L/S

<u>Goal</u>.  Perform ASE operations.

<u>Requirement</u>.  Given a scenario, supporting documentation, and an ASE, perform the following:

1.  Conduct Mission Analysis.
2.  Review OPORDs and ConOps.
3.  Review Communications plan, ACEOI & Guard Chart, and Comm Connectivity Diagram.
4.  Coordinate with external agencies:
    a.  Intra-squadron.
    b.  MACCS/NTACS Agencies.
    c.  FSCC/FFCC/FEC.
    d.  PET.
5.  Conduct embarkation, and retrograde of personnel and equipment.
6.  Conduct ASE operations:
    a.  Provide direct air support control functions within assigned AO in support of the MAGTF.
    b.  Conduct face-to-face coordination as needed with the FSCC on behalf of the DASC (as required).
    c.  As required function as an extension of the Navy TACC/HCS.
    d.  As required coordinate with the SACC/LFOC.

<u>Performance Standard</u>.  Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee.

<u>Instructor</u>.  SI

<u>Prerequisite</u>.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2215, 2220, 2225, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6255, 6230, 8000, 8020, 8040, 8062.

<u>Ordnance</u>.  None.

<u>Range</u>.  Range space capable of hosting ground and air fires.

<u>External Syllabus Support</u>.  S-1, S-2, S-3, S-4, S-6, air and fire support missions as defined by operational tempo three, FFCC/FSCC, and if required, a SACC and NTACC/HCS.

Reference.
1. JP 3-02, Amphibious Operations
2. MCDP 1-0, Operations
3. MCWP 3-16, Fire Support Coordination in the GCE
4. MCWP 3-16.6, Supporting Arms, Observer, Spotter, and Controller
5. MCWP 3-25, Control of Aircraft and Missiles
6. MCWP 3-25.5, DASC Handbook
7. MCWP 3-31.6, Supporting Arms Coordination in Amphibious Operations

7.8.8 DASC OIC (DOIC)

7.8.8.1 Purpose. To develop technical expertise and proficiency in DASC employment, integration into the MACCS and coordination with elements of the MAGTF, and planning for and management of air support operations.

7.8.8.2 General

Admin Notes. At the conclusion of this stage of training individuals will be eligible to be designated by the commanding officer as a Direct Air Support Center (DASC) Officer-in-Charge (OIC).

Prerequisite. 2250, 2255, 2260, 3300, 6245

OR

2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2375, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6240, 6255, 8000, 8020, 8040, 8060, 8080.

Crew Requirement. Core skill proficient Air Support Liaison Team (ASLT) and DASC (multiple DASC Crews).

DOIC-3400     120.0     730     B, R, M                                                                L

Goal. Conduct the duties of a DASC OIC during a field deployment/exercise.

Requirement. Given a Warning Order, Deployment Order and/or MCTEEP Exercise, a T/O and T/E, and other planning documents plan for and execute a MEB level or higher DASC deployment of at least five (5) days in length. Conduct planning and execution to include the following items:

1. Conduct Mission Analysis.
2. Review OPORDs and Concept of Operations.
3. Site selection/survey.
4. Review Communications plan, ACEOI & Guard Chart.
5. Produce LOI. Identify or create:
   a. Training Objectives.
   b. Personnel Roster.
   c. Equipment Density List/Bill of Materials (BOM) Request.
   d. DASC Comm Connectivity Diagram.

6. Coordinate with external agencies as required.
    a. Intra-squadron.
    b. MACCS Agencies.
    c. Fire Support Coordination Center (FSCC) & GCE.
    d. Joint C4I Agencies.
    e. Patient Evacuation Team (PET).
7. Final Confirmation Brief/Operations Brief.
8. Conduct gear/equipment inspection and embarkation.
9. Maintain accountability of personnel.
10. Physical security of classified areas.
11. Supervise training of DASC personnel.
12. Compile after-action items.

Performance Standard. Complete all requirements.

Instructor. SI

Prerequisite. 2250, 2255, 2260, 3300, 6245

OR

2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250

AND

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2375, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6240, 6255, 8000, 8020, 8040, 8060, 8080. MarineNet Courses: MCI2043022, Amphibious Embarkation, Communications Plans and Orders (2540).

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, external agencies (C2, fires, medical) as required.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. MCWP 5-1, Marine Corps Planning Process (MCPP)
3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual
4. MCRP 3-0A, Unit Training Management (UTM) Guide
5. MCRP 3-0B, How to Conduct Training


7.9 CORE PLUS TRAINING (4000)


7.9.1 Purpose. Core Plus Skills are intended to train the individual to utilize the tools, systems and/or procedures which have a low probability of execution or are theater specific.


7.9.2 General


7.9.2.1 Admin Notes. The following requirements apply to the Levels of DASC Operational Tempo, where applicable:

Level 1:  Minimum per hour: 2 F/W ATO missions, 2 R/W ATO missions, 2 immediate requests, and 1 fire mission.

Level 2:  Minimum per hour: 4 F/W ATO missions, 4 R/W ATO missions, 3 immediate requests, and 2 fire missions.

Level 3:  Minimum per hour: 6 F/W ATO missions, 6 R/W ATO missions, 4 immediate requests, and 3 fire missions.

Level 4:  Minimum per hour: 8 F/W ATO missions, 8 R/W ATO missions, 5 immediate requests, and 4 fire missions.

Level 5:  Minimum per hour: 10 F/W ATO missions, 10 R/W ATO missions, 6 immediate requests, and 5 fire missions.

7.9.2.2 <u>Prerequisite</u>.

7.9.2.3 <u>Stages</u>.

| MISSION PLUS PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| AIR SUPPORT ELEMENT (ASE) | 7.9.3 | 7-88 |
| SENIOR AIR DIRECTOR (SAD) | 7.9.4 | 7-89 |
| FAMILIARIZATION (FAM) | 7.9.5 | 7-90 |
| TACTICAL DATA LINKS(TDL) | 7.9.6 | 7-92 |
| COMMAND AND CONTROL SYSTEMS (C2SYS) | 7.9.7 | 7-115 |

7.9.3 <u>AIR SUPPORT ELEMENT (ASE)</u>

7.9.3.1 <u>Purpose</u>.  To develop proficiency in the art of integrating the ASE into amphibious operations.

7.9.3.2 <u>General</u>

> <u>Admin Notes</u>.  None.

> <u>Prerequisite</u>.  None.

> <u>Crew Requirement</u>.  None.

<u>ASE-4100</u>     4.0    *    B                                           L/S

> <u>Goal</u>.  Perform ASE operations during an amphibious operation.

> <u>Requirement</u>.  Given appropriate operations documents, a T/O and T/E and other planning documents, in accordance with the references, operate as an air support element officer during an amphibious operation. Conduct planning and execution for the following items:

> 1.  Analyze and identify air support requirements for the GCE.
> 2.  Analyze information exchange requirements and conduct information exchange between the GCE and the supported SACC/LFOC.
> 3.  Understand GCE scheme of maneuver and its impacts on Air Support.
> 4.  Understand impacts on FSCM/ACM changes on Air Support Operations.
> 5.  Understand and utilize primary, secondary, and tertiary (as necessary) means of communication.
> 6.  Understand the phases of phasing the MACCS ashore and its impact on the MACCS and supported MAGTF, as the operation develops.

7.  Understand Naval Fire Support Assets available and their employment.

Performance Standard. Perform the requirement items. The GCE for this event may be live or simulated. This liaison can also take place in the Supporting Arms Coordination Center, Landing Force Operations Center, or throughout the Amphibious Tactical Air Control System (ATACS). Trainee can show understanding of requirements through execution or explanation to the instructor.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2215, 2220, 2225, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3350, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, air and fire support missions, FFCC/FSCC, and if required, a SACC and NTACC/HCS.

Reference.
1.  JP 3-02, Amphibious Operations
2.  MCDP 1-0, Operations
3.  MCWP 3-16, Fire Support Coordination in the GCE
4.  MCWP 3-16.6, Supporting Arms, Observer, Spotter, and Controller
5.  MCWP 3-31.6, Supporting Arms Coordination in Amphibious Operations
6.  MCWP 3-25, Control of Aircraft and Missiles
7.  MCWP 3-25.5, DASC Handbook

7.9.4  SENIOR AIR DIRECTOR (SAD)

7.9.4.1  Purpose. To develop proficiency in the art of integrating deep fires with DASC operations.

7.9.4.2  General

Admin Note. None.

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Crew Requirement. Core skill proficient DASC crew.

SAD-4150        1.0        *        B                                                    L/S

Goal. Coordinate deep fires.

Requirement. In accordance with the references, coordinate the employment of deep fires (air-to-surface or surface to surface).

1.  Demonstrate an understanding of the agencies involved in deep fires.
2.  Demonstrate an understanding of FSCMs and ACMs used in deep fires.
3.  Demonstrate an understanding of the weapons system used in MAGTF and Joint deep fires.

Performance Standard. Coordinate deep fires in a timely manner utilizing the proper agencies, FSCM, and ACMs. Also, make correct weaponeering recommendations to the supported unit.

Instructor. BI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, MHE, air and fire support missions, digital backbone, TACC, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCRP 3-16.6A, TTP for Joint Application of Firepower
2. MCRP 3-25F, MTTP for Theater Air-Ground System
3. MCRP 3-25H, MTTP for Kill Box Employment
4. MCWP 3-16, Fire Support Coordination in the GCE
5. MCWP 3-16.6, Supporting Arms, Observer, Spotter, and Controller
6. MCWP 3-23.2, Deep Air Support
7. FSCC Techniques and Procedures Smartpack (TTECG Jan 00)
8. Intel Pub about GARS

## 7.9.5  FAMILIARIZATION (FAM)

7.9.5.1  Purpose. To facilitate the understanding of DASC operations through the familiarization with and observation of agencies/ organizations external to the DASC involved in aviation operations.

7.9.5.2  General

Admin Notes. The familiarization events contained in this phase are intended to complement the MACCS (8000) Stage and the MAGTF (8060) Stage of the ACPM. Each event is to be conducted as a tour of an operational facility under the guidance of a DASC SI or appropriate agency equivalent. Successful completion of the appropriate agency event contained in the ACPM.

Prerequisite. None.

Crew Requirement. None.

FAM-4300          2.0          *          B                                                            L

Goal. Observe the configuration and operation of a LAAD Battalion.

Requirement. Tour the various configurations of the LAAD Bn at section, platoon, and battery level.

Performance Standard. Complete a tour of a LAAD Bn.

Instructor. BI

Prerequisite. 8006.

Ordnance. None.

Range. None.

External Syllabus Support. LAAD Bn.

Reference.
1. MCWP 3-25.10, LAAD Battalion Handbook

FAM-4305        2.0        *        B                                                                L

Goal. Observe the configuration and operation of a Marine Air Traffic Control Mobile Team (MMT).

Requirement. Tour an operational MMT.

Performance Standard. Complete a tour of an MMT.

Instructor. BI

Prerequisite. 8005.

Ordnance. None.

Range. None.

External Syllabus Support. Operational MMT.

Reference.
1. MCWP 3-25.8, MATC Detachment Handbook

FAM-4310        2.0        *        B                                                                L

Goal. Observe the configuration and operation of a Supporting Arms Coordination Center.

Requirement. Observe a SACC.

Performance Standard. Complete a tour of a SACC.

Instructor. BI

Prerequisite. 8001, 8062, 8063, 8065.

Ordnance. None.

Range. None.

External Syllabus Support. Operational SACC.

Reference.
1. JP 3-02, Joint Doctrine for Amphibious Operations

FAM-4315        2.0        *        B                                                                L

Goal. Observe the configuration and operation of a Navy Tactical Air Control Center/Helicopter Coordination Section.

Requirement. Observe an operational NTACC/HCS.

Performance Standard.  Complete a tour of a NTACC/HCS.

Instructor.  BI

Prerequisite.  8001, 8062, 8063, 8065.

Ordnance.  None.

Range.  None.

External Syllabus Support.  Operational TADC/HCS.

Reference.
1.  JP 3-02, Amphibious Operations

FAM-4320        2.0        *        B                                                              L

Goal.  Observe VMU operations.

Requirement.  While observing an operational UAS discuss the positions, equipment, and operations in relation to the DASC.

Performance Standard.  Complete a tour of a VMU UAS site.

Instructor.  BI

Prerequisite.  8001, 8003, 8006.

Ordnance.  None.

Range.  None.

External Syllabus Support.  VMU.

Reference.
1.  MCWP 3-42.1, Unmanned Aerial Vehicle Operations

7.9.6  TACTICAL DATA LINK (TDL)

7.9.6.1  Purpose.  To develop DASC experience in establishing and operating advanced datalinks.

7.9.6.2  General

Admin Notes.  None.

Prerequisite.  None.

Crew Requirement.  None.

TDL-4801        1.0        *        B                                                              G

Goal.  Identify TACC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1. Radio systems
2. Data link systems
3. C2 Systems

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.4, Tactical Air Command Center Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-4802        1.0       *        B                                                       G

Goal.  Identify TAOC and EW/C voice and data communications equipment.

Requirement.  Given the references, identify the following:

1. Radio systems
2. Data link systems
3. C2 Systems

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.7, Tactical Air Operations Center Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-4804        1.0       *        B                                                       G

Goal.  Identify UAS voice and data communications equipment.

Requirement.  Given the references, identify the following:

1. Radio systems
2. Data link systems
3. C2 Systems

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. Approved Core METL applicable to the unit
3. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-4805          1.0        *          B                                                            G

Goal.  Identify LAAD voice and data communications equipment.

Requirement.  Given the references, identify the following:

1. Radio systems
2. Data link systems
3. C2 Systems

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.10, Low Altitude Air Defense Battalion Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-4806          1.0        *          B                                                            G

Goal.  Identify MATC voice and data communications equipment.

Requirement.  Given the references, identify the following:

1. Radio systems
2. Data link systems
3. C2 Systems

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.8, Marine Air Traffic Control Detachment Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-4807          2.0        *        B                                                                G

Goal.  Identify missions and TDL capabilities of Joint Tactical Data Systems (TDS).

Requirement.  Given the references, identify the missions and TDL capabilities of the following:

1. US Army.
   a. Air and Missile Defense Battalion (AMD BN) Composite.
   b. Air and Missile Defense Theater High Altitude Air Defense Battery (AMD THAAD).
   c. Air Defense Airspace Management (ADAM) Cell.
   d. Joint Tactical Ground Station (JTAGS).
2. US Navy.
   a. E-2C Group II and E2-D.
   b. F/A-18E/F (MIDS).
   c. EA-18G (MIDS).
   d. Model 5 (CV, LHD, LHA, LPD, CG, DDG).
   e. Model 4 (CG, FFG, LCC).
3. US Air Force.
   a. CRC/MCE.
   b. Air Support Operations Center (ASOC).
   c. E-3.
   d. F-15A thru E.
   e. E-8C.
   f. RC-135 RIVET JOINT and COBRA BALL.
4. US Marine Corps.
   a. F/A-18A++, C, D.
   b. EA-6B ICAP III (see US Navy references).

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations

TDL-4810        2.0        *        B                                                               G

Goal.  Identify Interface Unit (IU) categories and addressing requirements.

Requirement.  Perform the following:

1.  Identify how IUs are categorized.
2.  Define Concurrent Operations.
3.  Define Data Looping.
4.  Define the following IU communication functions:
    a.  Interface Unit (IU).
    b.  JTIDS/MIDS Unit (JU).
    c.  Command and Control JTIDS/MIDS Unit (C2JU).
    d.  Non-Command and Control JTIDS/MIDS Unit (NonC2 JU).
    e.  Participating Unit (PU).
    f.  Reporting Unit (RU).
    g.  Supporting Unit (SU).
    h.  Forwarding JTIDS/MIDS Unit A (FJUA).
    i.  Forwarding JTIDS/MIDS Unit B (FJUB).
    j.  Forwarding JTIDS/MIDS Unit AB (FJUAB).
    k.  Forwarding Participating Unit (FPU).
    l.  Forwarding Reporting Unit (FRU).
    m.  Concurrent Interface Unit (CIU).
5.  Define IU Address.
6.  Identify legal and preferred IU address ranges for:
    a.  PU/FPU.
    b.  RU/FRU.
    c.  C2JU.
    d.  NonC2 JU.
    e.  FJUA/FJUAB.
    f.  FJUB.
7.  Explain the purpose of the pseudo source address.
8.  Explain the purpose of the collective address.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-4815          1.0      *        B                                                        G

Goal.  State the Characteristics of Link 11.

Requirement.  Given the reference:

1. Define the following Link 11 station modes of operation:
   a. Net Control Station (NCS).
   b. Picket.
   c. Radio Silence
2. Define the following Link 11 net modes of operation:
   a. Roll Call.
   b. Broadcast (Long).
   c. Short Broadcast.
   d. Net Sync.
   e. Net Test.
3. State the purpose of the following Link 11 waveforms:
   a. Conventional Link 11 Waveform (CLEW).
   b. Single Tone Link 11 Waveform (SLEW).
4. Describe the characteristics of the following Link 11 data encryption modes:
   a. A1.
   b. A2.
   c. B.
   d. Plain Text.
5. Define Data Link Reference Point, and state typical usage criteria and limitations.
6. Describe Link 11 Gridlock.
7. Define Net Cycle Time.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-4816          1.0          *          B                                                        G

    Goal.  State the characteristics of Link 11B.

    Requirement.  Given the reference:

    1.  State the communications mediums that Link 11B can be transmitted over.
    2.  State the most common encryption devices used for Link 11B.
    3.  State the purpose of "strapping," with respect to Link 11B encryption devices.
    4.  Define the following Link 11B data transmission modes:
        a.  Limited Transmission of Data (LTD) mode.
        b.  Full Transmission of Data (FTD) mode.
    5.  Define Data Link Reference point, and state typical usage criteria and limitations per the Joint Multi-TDL Operating Procedures.

    Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

    Instructor.  SI

    Prerequisite.  None.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
    1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
    2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-4821          1.0          *          B                                                        G

    Goal.  State the purpose of Interface Coordination procedures.

    Requirement.  Perform the following:

    1.  Identify the purpose of data link entry/exit procedures.
    2.  Define data registration.
    3.  State the purpose of the following data registrations:
        a.  Geodetic registration
        b.  Sensor registration
        c.  Remote Interface Unit (IU) registration
    4.  List the steps of the data registration test.
    5.  State which unit will normally be assigned as the data registration reference unit in a Multi-TDL environment.
    6.  List the five correlation restrictions for reported tracks.
    7.  List the eight operational contingency constraints (OCCs) for a track.
    8.  List the six steps for voice resolution of a dual designation.
    9.  IAW the JMTOP, what is the single most important element of information of the TDL interface.
    10.  Define an Identification (ID) conflict.
    11.  Define an environment conflict.
    12.  Outline the ID difference resolution procedures.
    13.  Define a Change Data Order (CDO).
    14.  State who on the interface may originate a CDO.

15. Identify the three detection and tracking reporting techniques.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4.  MCRP 3-25E, MTTP for an Integrated Air Defense System

TDL-4824          1.0          *          B                                                  G

Goal.  Identify elements of Combat Net Radios (CNR) Networks.

Requirement.  Given the reference:

1.  Define Combat Net Radios (CNR).
2.  Identify CNR capable data systems in the Marine Corps.
3.  Identify CNR capable aircraft in the Marine Corps.
4.  Identify CNR capable aircraft in the Joint Force.
5.  Identify the purpose of the MIL-STD-2045-47001 Header.
6.  Identify CNR Address requirements.
7.  Explain how a CNR Data Link address can be determined based on aircrafts ATO call sign side number.
8.  Identify the purpose of an IP address in CNR.
9.  Identify the method to calculate the IP address of an aircraft based on squadron number and ATO call sign side number.
10.  Identify the generic subnet mask used to ensure CNR interoperability.
11.  Identify the concept of Network Layer Pass-through.
12.  Explain the interoperability issues that exist with CNR.
13.  Identify the techniques used to provide network access with CNR.
14.  Identify the characteristics of Random-Network Access Delay (R-NAD).
15.  Identify the characteristics of Deterministic Adaptable Priority-Network Access Delay (DAP-NAD).
16.  Define the term radio mix.
17.  Explain the importance of timing parameters used with asynchronous CNR networks.
18.  Explain the importance of Operational Parameter Settings (OPS) in asynchronous CNR networks.
19.  Identify the organization responsible for disseminating OPS.
20.  Explain the importance of Extended OPS settings.
21.  Explain the process of joining a CNR network with established network parameters.
22.  Explain the method to join a CNR network with adaptive network parameters.
23.  Describe a Digitally Aided Close Air Support thread.
24.  Describe a Digitally Aided Fire Support thread.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  SI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 3115.01, Joint Data Network Operations
2.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
3.  MIL-STD-188-220, Digital Message Transfer Device Subsystems
4.  MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
6.  MIL-STD-6017, VMF Interface Standard
7.  MAWTS-1 TACP TACSOP
8.  JF J-6 DaCAS White Paper
9.  System of Systems Engineering Change Proposal 1, Base Line DaCAS Messaging and RF Network
10.  System of Systems Engineering Change Proposal 4, exchange of Network Parameters
11.  Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
12.  MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values

TDL-4825       1.0      *       B                                                              G

Goal.  Identify elements of the OPTASK LINK Combat Net Radios (CNR)Segment/Supplement.

Requirement.  Given the reference:

1.  Identify the purpose of the OPTASK LINK Combat Net Radios (CNR) Segment/Supplement.
2.  Identify the Variable Message Format (VMF) Functional Areas supported by the OPTASK LINK CNR.
3.  Identify the two radio network architectures supported by the OPTASK LINK CNR.
4.  Identify the information contained in the CNRSEG set.
5.  Identify the information contained in the CNRAREA set.
6.  Identify the relationship between a CNRSEG and an area of operation.
7.  Identify the information contained in the POCLINK set.
8.  Identify the information contained in the CNRSET set.
9.  Identify the information contained in the SNS set.
10. Explain where to find the OPS table referenced in the SNS set.
11. Identify the information contained in the CNETWORK set.
12. Identify the information contained in the CRYPTDAT set.
13. Identify the information contained in the CWEPCRYP set.
14. Identify the information contained in the UHFLOS set.
15. Identify the information contained in the UHFSAT set.
16. Identify the purpose of the Air Support Segment.
17. Identify the information contained in the ASCCID set.
18. Identify the information contained in the ASCCOMM set.
19. Identify the information contained in the Air Support Information GENTEXT.
20. Identify the purpose of the Tactical Control Team Segment.
21. Identify the information contained in the TCTID set.
22. Identify the information contained in the TCTCCOMM set.
23. Identify the information contained in the Tactical Control Team 24. Information GENTEXT.
25. Identify the purpose of the Aircraft CNR Segment.
26. Identify the information contained in the SQDCNRDT set.
27. Identify the information contained in the CNR Coordination Instructions GENTEXT.

Performance Standard.  With the aid of the Guide to the USMTF User Formats and given a CNR Network, OPTASK LINK CNR, a CNR Architecture Diagram template, a Quick Reference Guide template, and MIL-STD-188-220 Standard Configuration Tables; perform CNR network planning IAW unit SOP.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  DISA USMTF Baseline
2.  Combat Net Radio Working Group, https://www.us.army.mil/suite/community/9543784
3.  CJCSM 3115.01, Joint Data Network Operations
4.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP_)
5.  MIL-STD-188-220, Digital Message Transfer Device Subsystems
6.  MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
7.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
8.  MIL-STD-6017, VMF Interface Standard
9.  MIL-STD-188-220 Tables with Standard Configuration and Associated Parameter Values

TDL-4826          1.0        *        B                                                                          G

Goal.  State the characteristics of Cooperative Engagement Capability (CEC).

Requirement.  Perform the following:

1.  Define Integrated Fire Control (IFC).
2.  State the purpose of CEC.
3.  State the characteristics of the CEC network.
4.  Identify the Navy platforms capable of participating in the CEC network.
5.  State the Marine Corps equipment required to interface with CEC.

Performance Standard.  Pass an exam.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  TACMEMO 3-01.3-12 CEC Tactical Employment Guide, Feb 2012
2.  USN Capabilities and Limitations website http://cnl.phdnswc.navy.smil.mil/
3.  Navy CEC Fact Sheet
4.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
5.  Marine Primer on Expeditionary Integrated Fire Control (IFC)

TDL-4828        2.0        *        B                                                            L

    Goal.  Operate a Joint Range Extension (JRE) Gateway.

    Requirement.  Given a JRE server and client, and an OPTASK LINK:

1. Connect the Windows JRE client to the JRE Solaris server.
2. Inspect/Configure own unit configuration to include:
   a. JU Address
   b. PPLI Message Format
   c. Unit Position Source
   d. Unit Position Location
   e. Elevation
   f. J13.5 System Status
3. Configure JRE client software to include:
   a. Client applications Settings.
     (1) Create client roles and permissions
     (2) Add clients
   b. Configure Raster maps.
   c. Configure eDERG for monitoring and recording.
4. Configure the JRE for the following data links:
   a. Link 16
   b. JREAP A
   c. JREAP B
   d. JREAP C
5. Configure filters IAW the OPTASK LINK.
6. Inspect link configurations.
7. Utilize the connection matrix to transmit data over the appropriate link IAW the forwarding plan.
8. Utilize the connection matrix to receive data over the appropriate link.

    Performance Standard.  Complete the requirements IAW the references.  Tactical Data System (TDS) administrators may assist with steps (1) and (3) only.

    Instructor.  BI

    Prerequisite.  None.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. JRE Version 5.3.x Software User Guide

TDL-4830        2.0        *        B                                                            G

    Goal.  Operate an Air Defense Systems Integrator (ADSI).

    Requirement.  Given an OPTASK LINK and operational ADSI; using the TSD:

1. Inspect/Configure own unit configuration to include:
   a. JU Address.

     b.  PPLI Message Format.
     c.  Unit Position Source.
     d.  Unit Position Location.
     e.  Elevation.
     f.  J13.5 System Status.
2.  Configure DERG for monitoring and recording.
3.  Configure the ADSI for the following data links:
     a.  Link 11.
     b.  Link 11B.
     c.  Link 16 .
     d.  JREAP A.
     e.  JREAP B.
     f.  JREAP C (TCP/IP and UDP/IP).
4.  Configure filters IAW the OPTASK LINK.
5.  Inspect link configurations.
6.  Utilize the forwarding matrix to transmit data over the appropriate link IAW the forwarding plan.
7.  Utilize the forwarding matrix to receive data over the appropriate link.

Performance Standard.  Complete the requirements IAW the references.

Instructor.  SI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  ADSI Version 14.1.1 Software Users Guide
3.  ADSI Version 14.1.1 Installation and Configuration Guide

TDL-4832    4.0    *    B                   L

Goal.  Operate Link 11.

Requirement.  Given the references, operational documents, and a C2 system:

1.  Extract required information from the OPTASK LINK.
2.  Input the required database entries.
3.  Enter and activate filters.
4.  Verify equipment is correctly configured.
5.  Verify cryptographic equipment is keyed.
6.  Enter / exit link IAW published procedures.
8.  Operate in the following modes:
     a.  Radio Silent.
     b.  Net Control Station (NCS).
     c.  Picket

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual

TDL-4834        4.0        *        B                                                    L

Goal.  Operate Link 11B.

Requirement.  Given the references, operational documents, and a C2 system:

1.  Extract required information from the OPTASK LINK.
2.  Input database entries per the OPTASK LINK.
3.  Enter and activate data filters per the OPTASK LINK.
4.  Verify equipment is correctly configured.
5.  Verify cryptographic equipment is keyed.
6.  Perform proper net entry procedures.
7.  Enter / exit link IAW published procedures.
8.  Operate in the following modes:
     a.  Limited Transmission of Data (LTD)
     b.  Full Transmission of Data (FTD)

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2820, 4816.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual

TDL-4836        8.0        *        B                                                    L

Goal.  Operate Link 16.

Requirement.  Given an OPTASK LINK, Network Description Document (NDD), and a C2 system:

1.  Extract required information from the OPTASK LINK.

2. Enter required database entries per the OPTASK LINK.
3. Enter and activate filters per the OPTASK LINK.
4. Identify Stacked Net assignments for voice and air control.
5. Enter and valid stacked net assignments in the database.
6. Obtain the Link 16 initialization data load (IDL) from the USMC Network Design Facility.
7. Perform Link 16 pulse deconfliction.
8. Verify equipment is configured correctly.
9. Verify the cryptographic equipment is keyed.
10. Load the appropriate time.
11. Load the IDL.
12. Enter/exit link IAW published procedures.
13. Achieve fine synchronization with another interface unit.
14. Operate in/as the following:
    a. Radio Silent or data silent.
    b. Network Time Reference (NTR).
    c. Initial Entry JTIDS Unit (IEJU).

Performance Standard. Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2800, 2809, 2814, 2817, 2818, 2820.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. USMC NDF Website

TDL-4838          8.0          *          B                                                                    L

Goal. Operate JREAP A.

Requirement. Given a MIL-STD-3011 compliant system, SATCOM radio assets, Satellite Access Authorization (SAA), OPTASK LINK, and assistance from maintenance and communications sections:

1. Extract satellite communications information from the SAA.
2. Verify proper radio configuration for JREAP A operations.
3. Verify cryptographic equipment is keyed.
4. Verify JREAP A equipment is connected.
5. Verify the SATCOM antenna has the correct elevation and azimuth.
6. Build the JREAP A link in the MIL-STD-3011 compliant system.
7. Enter and activate filters in the MIL-STD-3011 compliant system.
8. Enable and disable the correct link connections.
9. Enter/exit link IAW published procedures.
10. Demonstrate the ability to operate in the following modes:
    a. Network Participant.
    b. Network Controller.
    c. Network Listener.

Performance Standard.  Successfully exchange tracks.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2819, 2820.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  C2 System Technical Manual
4.  SATCOM Radio Technical Manual
5.  MIL-STD-3011, JREAP Interface Standard

TDL-4840        8.0        *        B                                                          L

Goal.  Operate JREAP B.

Requirement.  Given a MIL-STD-3011 compliant system, a serial line encryption device, and assistance from maintenance and communications sections:

1.  Verify the serial line encryption device is configured for JREAP B operations.
2.  Verify the serial line encryption device is connected to the MIL-STD-3011 compliant system and telephone line.
3.  Build the JREAP B link in the MIL-STD-3011 compliant system.
4.  Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5.  Enable and disable the correct link connections.
6.  Enter / exit link IAW published procedures.

Performance Standard.  Successfully exchange information/data.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2819, 2820.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  C2 System Technical Manual
4.  MIL-STD-3011, JREAP Interface Standard

TDL-4842        8.0        *        B                                                          L

Goal.  Operate JREAP C.

Requirement.  Given a MIL-STD-3011 compliant system, SIPRNET access, and assistance from maintenance and communications sections:

1. Verify the MIL-STD-3011 compliant system is configured with the correct IP address.
2. Verify the MIL-STD-3011 compliant system is connected to the network.
3. Build JREAP C IP links in the MIL-STD-3011 compliant system.
   a. TCP.
   b. UDP Unicast.
   c. UDP Multicast.
4. Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5. Enable and disable the correct link connections.
6. Activate and exchange information with JREAP-C (either TCP or UDP).

Performance Standard.  Successfully exchange information/data.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2819, 2820.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

TDL-4843          3.0          *          B                                                              L

Goal.  Troubleshoot Link 11.

Requirement.  Given a C2 system with a malfunctioning Link 11:

1. Verify the internal data path being used for Link 11 is functional.
2. Verify the Participating Unit is in the NCS's polling sequence.
3. Use transmit and receive quality to determine connectivity.
4. Select and monitor Link 11 messages.
5. Recognize and take appropriate action for an incorrect DLRP.
6. Recognize and take appropriate action for incorrect crypto.
7. Elevate unresolvable issues to the Crew Chief.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2809, 2820, 4815.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual

TDL-4844          3.0       *       B                                                              L

Goal.  Troubleshoot Link 11B.

Requirement.  Given a C2 system with a malfunctioning Link 11B:

1.  Verify the internal data path being used for Link 11B is functional.
2.  Verify the external data path is established.
3.  Select and monitor Link 11B messages.
4.  Recognize and take appropriate action for an incorrect DLRP.
5.  Recognize and take appropriate action for incorrect crypto.
6.  Elevate unresolvable issues to the Crew Chief.
7.  Verify distant end link is operational.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2809, 2820, 4815, 4834.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual

TDL-4845          3.0       *       B                                                              L

Goal.  Troubleshoot Link 16.

Requirement.  Given a C2 system with a malfunctioning Link 16:

1.  Verify the internal data path being used for Link 16 is functional.
2.  Verify direct connectivity exists with a Network Time Reference or an Initial Entry JTIDS Unit.
3.  Recognize and take appropriate action for incorrect time.
4.  Recognize and take appropriate action for incorrect crypto.
5.  Recognize and take appropriate action for incorrect IDL.
6.  Select and monitor Link 16 messages.
7.  Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2817, 2818, 2820, 4836.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  C2 System Technical Manual

TDL-4846        3.0      *        B                                                                L

Goal.  Troubleshoot JREAP A.

Requirement.  Given a C2 system with a malfunctioning JREAP A:

1.  Use the SATCOM radio's receive signal strength orderwire (RSSOW) to troubleshoot antenna elevation and azimuth.
2.  Troubleshoot the SATCOM radio's satellite connection status.
3.  Determine if the unit's Interface Unit address is in the Network Controller's subscriber list.
4.  Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2819, 2820, 4838.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  C2 System Technical Manual
4.  SATCOM Radio Technical Manual
5.  MIL-STD-3011, JREAP Interface Standard

TDL-4847        3.0      *        B                                                                L

Goal.  Troubleshoot JREAP B.

Requirement.  Given a C2 system with a malfunctioning JREAP B:

1.  Verify distant end and local settings on the STEs.
2.  Verify KSV-21 has the appropriate crypto key.

3. Identify low quality phones lines to the crew chief.
4. Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2819, 2820, 4840.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

TDL-4848        3.0        *        B                                                                    L

Goal.  Troubleshoot JREAP C.

Requirement.  Given a C2 system with a malfunctioning JREAP C:

1. Use the ping and trace route functions to determine if a network connection exists between two computers.
2. Identify firewall exemptions to the communication's section to open blocked ports.
3. Elevate unresolvable issues.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2809, 2814, 2819, 2820, 4842.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. MIL-STD-3011, JREAP Interface Standard

TDL-4849        3.0        *        B                                                                    L

Goal.  Conduct tactical data link planning for an agency.

Requirement.  Given an exercise or operational scenario:

1. Obtain the communications and data link source documentation for the specified exercise or operation.
2. Identify required crypto short titles in the COMSEC callout.
3. Identify communication nets required for TDL coordination.
4. Identify duties assigned to the unit in the OPTASK LINK.
5. Identify primary, secondary, and tertiary tactical data links.
6. Identify required TDL equipment and configuration to crew leadership.
7. Construct the data link portion of the crew brief IAW the unit's Pocket Checklist.
8. Provide planning inputs to the Interface Control Officer as required.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Prerequisite.  2800, 2809, 2814, 2820, 4810, 4821.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist

TDL-4850          3.0          *          B                                                                    L

Goal.  Conduct tactical data link coordination for an agency.

Requirement.  Given an exercise or operational scenario:

1. Brief the tactical data link (TDL) portion of the agency's crew brief.
2. Execute the agency's duties identified in the OPTASK LINK.
3. Respond to instructions given by the Interface Control Officer (ICO).
4. Provide recommendations to the ICO during execution.
5. Configure primary, secondary, and tertiary tactical data links.
6. Monitor the status and health of operational TDLs.
7. Coordinate data forwarding and link connections for the agency.
8. Coordinate data filters for the agency.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Prerequisite.  2800, 2809, 2814, 2820, 4810, 4821.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist

TDL-4851          8.0          *          B                                                                              L

Goal.  Perform track data coordination for a track producing agency

Requirement.  Given the references and an operational C2 system:

1.  Coordinate the changes in the agency's track production responsibilities as the tactical situation changes.
2.  Coordinate the agency's usage of data filters.
3.  Coordinate the agency's usage of special points, lines, and areas on the Multi-Link Interface.
4.  Perform the resolution of the following interface anomalies affecting the local agency:
    a.  Dual designations
    b.  Duplicate tracks
    c.  Identification conflicts
    d.  Category and environment conflicts

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Prerequisite.  2800, 2809, 2811, 2812, 2813, 2814, 2820, 4810, 4821, 4826.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  C3 Agency's Pocket Checklist

TDL-4852          8.0          *          B                                                                              L

Goal.  Perform Link 16 Management Functions.

Requirement.  Given the references and participation as the Link 16 Manager in a MAGTF or Joint exercise:

1.  Schedule usage of Link 16 with the Deconfliction Server for all agencies.
2.  Provide input to the Link 16 portion of the OPTASK LINK message.
3.  Based upon the Commander's Information Exchange Requirements, coordinate with the ICO the selection of a network which will meet these IERs.
4.  Ensure that each Link 16 participant has the correct IDL.
5.  Direct the proper initialization of the Link 16 network.
6.  Monitor network performance and recommend modification/changes to the ICO.
7.  Maintain an accurate status of the network and its participants.
8.  When required, coordinate changes to the network.

Performance Standard.  N/A.

Instructor.  SI

Prerequisite.  2800, 2809, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 4810, 4821, 4836, 4838, 4840, 4842.

Ordnance.  None.

Range.  None.

External Syllabus Support.  Link 16 capable units participating in a MAGTF or Joint exercise.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  LMS-MT System Users Guide
3.  CJCSI 6232.01_, Link 16 Spectrum Deconfliction

TDL-4853        8.0      *        B                                                        L

Goal.  Perform as the Track Data Coordinator.

Requirement.  Given the references and an operational MACCS:

1.  Perform as the Net Control Station for the Track Supervision Net (TSN).
2.  Direct a data registration test between two track producing units.
3.  Resolve the following interface anomalies:
    a.  Dual designations
    b.  Duplicate tracks
    c.  Identification conflicts
    d.  Category and environment conflicts
4.  Transmit Change Data Orders (CDOs) when required.
5.  Monitor the use and transmission of special points, lines, and areas.
6.  Enforce the track production plan.
7.  Recommend changes to surveillance areas to the Interface Control Officer (ICO).
8.  Recommend changes in data filter usage to the ICO.
9.  Conduct Fidelity Drills as directed by the ICO.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2820, 2822, 4802, 4804, 4805, 4807, 4810, 4821, 4826.

Ordnance.  None.

Range.  None.

External Syllabus Support.  Two track producing agencies.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-4854        8.0      *        B                                                        L

Goal.  Perform Interface Control Officer planning functions.

Requirement.  Given a scenario and the references:

1.  Gather details pertaining to the operational environment to include:
    a.  Operational Scenario.

     b. Identification and prioritization of information exchange requirements.

     c. Communications equipment characteristics and frequencies.

     d. EW Considerations.

     e. Cryptographic requirements.

2. Gather details on each TDL Interface Participant to include:

     a. Geographic location.

     b. Information exchange requirements.

     c. Expected track loading.

     d. Capabilities and limitations.

     e. Current issues or degradations that would affect an Interface Unit's ability to operate its assigned data links.

3. Identify capabilities and limitations of each Tactical Data Link (TDL) to support information exchange requirements.

4. Develop the Multi-TDL Architecture.

5. Coordinate with the USMC Network Design Facility for an appropriate Link 16 Network.

6. Validate that the Multi-TDL Architecture supports information exchange requirements.

7. Develop the OPTASK LINK.

Performance Standard.  N/A

Instructor.  SI

Prerequisite.  2800, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 4807,  4810, 4815, 4821, 4826, 4830.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard
5. https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
6. CJCSI 6232.01_, Link 16 Spectrum Deconfliction
7. MCRP 3-25E, MTTP for an Integrated Air Defense System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

TDL-4855     8.0     *     B                                                  L

Goal.  Perform Interface Control Officer Execution Functions.

Requirement.  Given the references and an operational MACCS:

1. Perform as the Net Control Station (NCS) for the Data Link Coordination Net (DCN).
2. Coordinate the NCS for Link 11.
3. Coordinate the Network Time Reference (NTR) for Link 16.
4. Enforce published net entry and exit procedures.
5. Direct data link fidelity drills.
6. Direct the activation of data filters as required.
7. Monitor and maintain Interface Unit (IU) TDL status.
8. Determine and resolve Multi-TDL connectivity problems.
9. Direct and assist the Track Data Coordinator in resolving issues.

10. Coordinate the activation of secondary and tertiary data links.

Performance Standard.  N/A.

Instructor.  SI

Prerequisite.  2800, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 4807, 4810, 4815, 4821, 4826, 4830, 4836, 4838, 4840, 4842, 4852.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4.  MIL-STD-3011, JREAP Interface Standard
5.  https://cnl., NAVSEA Tactical Data Systems Capabilities and Limitations website (SIPR)
6.  CJCSI 6232.01_, Link 16 Spectrum Deconfliction
7.  MCRP 3-25E, MTTP for an Integrated Air Defense System
8.  Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

7.9.7  Command and Control Systems (C2SYS)

7.9.7.1  Purpose.  To develop proficiency in utilizing the command and control systems used in DASC operations.

7.9.7.2  General

Admin Notes.  Command and control system events are located in the MAWTS-1 C3 Course Catalog in order to maintain standardized training across the MACCS.  The table below lists all C2SYS events that are to be completed by DASC personnel position dependent.  See the MAWTS-1 C3 Course Catalog for the events listed in the table below.

Prerequisite.  None.

Crew Requirement.  None.

| EVENT CODE | EVENT NAME | POSITION |
|---|---|---|
| C2SYS-4904 | Operate Web Mapping | TAD, HD, SAD, DOIC |
| C2SYS-4905 | Utilize the Air Tasking Order Airspace Control Order Tool (AATWEB) | TAD, HD, SAD, DOIC |
| C2SYS-4906 | Utilize TBMCS Web Based Airspace Deconfliction Software (WEBAD) | TAD, HD, SAD, DOIC |
| C2SYS-4907 | Generate TBMCS battle management reports | TAD, HD, SAD, DOIC |
| C2SYS-4908 | Utilize the TBMCS Air Battle Information Monitoring (ABIM) tool | TAD, HD, SAD, DOIC |
| C2SYS-4909 | Utilize TBMCS FSTAT to monitor and update FrOB status | TAD, HD, SAD, DOIC |

| C2SYS-4912 | Utilize TBMCS MCAMP for Mission Replanning | TAD, HD, SAD, DOIC |
|---|---|---|
| C2SYS-4913 | Import an airspace group | TAD, HD, SAD, DOIC |
| C2SYS-4914 | Create a TBMCS Air Battle Plan (ABP) shell | TAD, HD, SAD, DOIC |
| C2SYS-4915 | Create ground targets in TBMCS | TAD, HD, SAD, DOIC |
| C2SYS-4916 | Create missions in TBMCS | TAD, HD, SAD, DOIC |
| C2SYS-4917 | Publish the ATO | SAD, DOIC |
| C2SYS-4920 | Operate AFATDS | TAD, HD, SAD, DOIC |
| C2SYS-4922 | Operate BFT | TAD, HD, SAD, DOIC |
| C2SYS-4924 | Operate JADOCS | TAD, HD, SAD, DOIC |
| C2SYS-4925 | Operate CSEL | TAD, HD, SAD, DOIC |
| C2SYS-4941 | Operate Web Development Software | SAD, DOIC |

7.10  INSTRUCTOR UNDER TRAINING (IUT)(5000)

7.10.1  Purpose.  To provide position qualified personnel the additional skills necessary to instruct, evaluate and recommend for completion / qualification "trainees" within a crew.  Upon completion of the required training, an individual may be considered for instructor designation by the Commanding Officer, WTTP Officer, or direct representative as delineated.

7.10.2  General

7.10.2.1  Admin Notes.

    a.  The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to concepts of managing a WTTP, properly conducting training, performing evaluations, and recommending training plans.

    b.  There are three instructor designations (listed below).  The intent is to train individuals with different levels and areas of experience to instruct personnel.  Instructor experience is also gained while progressing through the different instructor designations.

        (1) Basic Instructor (BI)

        (2) Senior Instructor (SI)

        (3) Weapons and Tactics Instructor (WTI)

    c.  The MAWTS-1 C3 Course catalog contains the training requirements for each of the three instructors.  The catalog is located at the MAWTS-1 website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx

    d.  The table below outlines the events that each instructor can train, evaluate, and approve or recommend for approval.

| INSTRUCTOR | Event Training, Evaluation and Approval |
|---|---|
| BI | Core Skill events in which current and proficient |
| SI | Core Skill and Mission Skill events |
| WTI | Mission Skill and Qualification events.<br>-  Evaluate and recommend for qualification<br>-  Endorse recommendations for position designations |

| | The Commanding Officer is the approving authority for qualifications and designations. |
|---|---|

7.10.2.2 Prerequisite

7.10.2.3 Stages. The following stages are included in the Instructor Under Training Phase of training.

| INSTRUCTOR UNDER TRAINING PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| INSTRUCTOR UNDER TRAINING (IUT) | 7.13.3 | 7-116 |

7.10.3 INSTRUCTOR UNDER TRAINING (IUT)

7.10.3.1 Purpose. To train the individual Marine in the skills required to lead a period of instruction.

7.10.3.2 General

Admin Notes. None.

Prerequisite. None.

Crew Requirement. None.

| T&R CODE | EVENT DESCRIPTION | INSTRUCTOR |
|---|---|---|
| 5000 | Introduce principles of instruction | BI |
| 5010 | Describe individual T&R requirements | BI |
| 5020 | Conduct a period of instruction on a T&R event | BI |
| 5100 | Describe the Aviation T&R program | SI |
| 5110 | Understand Applicable Community T&R | SI |
| 5120 | Understand T&R Administration | SI |
| 5130 | Develop a training plan | SI |

7.11 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000)

7.11.1 Purpose. This phase provides for community standardization of DASC 7208 position qualifications, combat leadership and instructor designations as well as codes for tracking licenses, participation in operations, completing RSO, Machine Gunner Courses, and other skills. This Manual does not contain "one time" certification training requirements.

7.11.2 General

7.11.2.1 Admin Notes.

(1) The WTTP shall review the IPR to ensure all required training, documentation and administrative actions have been completed prior to staffing qualifications or designation recommendations for approval.

(2) Only once an individual is qualified or designated in writing, the signed letter filed in the IPR, and all administrative actions are completed will the qualification or designation be effective.

7.11.2.2 Prerequisite

7.11.2.3 Stages. The following stages are included in this Phase of training.

| REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS PHASE |
|---|

| STAGE | PARAGRAPH | PAGE NUMBER |
|---|---|---|
| QUALIFICATIONS (QUAL) | 7.11.3 | 7-118 |
| DESIGNATIONS (DESG) | 7.11.4 | 7-121 |
| SCHOOL CODES (SCHL) | 7.11.5 | 7-123 |
| OPERATIONS CODES (OPS) | 7.11.6 | 7-123 |

7.11.3  QUALIFICATIONS (QUAL) STAGE

7.11.3.1  Purpose.  To qualify DASC Marines on their ability to perform as DASC crewmembers through evaluation.  There is no limit on the amount of system time required before performing a qualification event.  Once all prerequisites for a qualification have been completed, the trainee is eligible to proceed to the applicable qualifying event.

7.11.3.2  General

Admin Notes.  Policy on attaining, maintaining and regaining a qualification is contained in chapter 2 of reference (a).

Prerequisite.  Complete all prerequisites for qualification and be recommended by a WTI.

Crew Requirement.  None.

QUAL-6230      0.5      *      B                                                              G

Goal.  Qualification as an HD.

Requirement.  Complete the required training for HD. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard.  Proficiency demonstrated in prerequisites.

Instructor.  WTI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

QUAL-6235      0.5      *      B                                                              G

Goal.  Qualification as a TAD.

Requirement.  Complete the required training for TAD.  Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard.  Proficiency demonstrated in prerequisites.

Instructor.  WTI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6255, 8000, 8020, 8040, 8062.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. None.

QUAL-6240      2.0      *      B                                                              L

Goal. Qualification as a DASC SAD.

Requirement. A board will be convened to question the prospective SAD given the following stipulations:

1. The board will consist of three members:
    a. 1 - DASC SAD WTI.
    b. 1 - Qualified DASC SAD.
    c. 1 - DASC Crew Chief WTI.
2. The board will request 20 questions from MAWTS-1/C3 department.
3. The board will ask only the 20 questions provided and shall not deviate from them.

Performance Standard. 1. Answer 8 of 10 factual questions correctly.
2. Answer 8 of 10 questions pertaining to processes, decisional, and description, satisfactorily.
3. Two of three board members must concur trainee met the requirement.
Upon successful completion of this event, the board will forward the results via the WTTP to the commanding officer who will make the final determination on the qualification it in writing.

Prerequisite. 2250, 2255, 2260, 3300, 6245

**OR**

2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250

**AND**

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2375, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. None.

QUAL-6245      0.5      *      B                                                              G

Goal. Qualify as an ASLT OIC.

Requirement. Complete the required training in the ASLT OIC POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. Proficiency demonstrated in prerequisites.

Instructor. WTI

Prerequisite. 3005, 3010, 3015, 3020, 6230

**OR**

3105, 3110, 3115, 3120, 6235

**AND**

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2250, 2255, 2260, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 3300, 6020, 6023, 6255, 8000, 8020, 8040, 8060.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. None.

QUAL-6250     0.5     *     B                                                 G

Goal. Qualify as an ASE OIC.

Requirement. Complete the required training in the ASE stage. Be recommended for qualification by a WTI and designated in writing by the commanding officer.

Performance Standard. Proficiency demonstrated in prerequisites.

Instructor. WTI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2215, 2220, 2225, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3350, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8060.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. None.

QUAL-6255     0.5     *     B                                                 G

Goal. Qualify as a CTRL.

Requirement. Complete the required training for CTRL. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. Proficiency demonstrated in prerequisites.

Instructor. WTI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2165, 2400, 2415, 2420, 2425, 3000, 3100, 8000, 8020, 8040, 8062.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. None.

7.11.4  Designations (DESG)

7.11.4.1  Purpose. To provide for the designation of combat leaders and instructors.

7.11.4.2  General

Admin Notes. None.

Prerequisite. Complete all designation requirements and be recommended for that designation. However, in the event that a commander deems it necessary to designate someone who has not completed the prerequisite, that person must complete the prerequisite within 6 months from the effective date of designation.

Crew Requirements. None.

DESG-6300      0.5      *      B                                                    G

Goal. Designation as a DASC OIC.

Requirement. Be recommended for designation by a WTI and be designated in writing by the commanding officer.

Performance Standard. N/A.

Prerequisite. 2250, 2255, 2260, 3300, 6245

**OR**

2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250

**AND**

2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2315, 2320, 2325, 2350, 2355, 2365, 2370, 2375, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 3400, 6020, 6023, 6230, 6235, 6240, 6255, 8000, 8020, 8040,

8060, 8080.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

DESG-6320        0.5        *        B                                                                    G

Goal.  Designation as a Basic Instructor (BI).

Requirement.  Be recommended for BI designation by a SI or WTI and designated in writing by the commanding officer.

Performance Standard.  N/A.

Prerequisite.  5000, 5010, 5020.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

DESG-6321        0.5        *        B                                                                    G

Goal.  Designation as a Senior Instructor (SI).

Requirement.  Be recommended for designation by a SI or WTI and designated in writing by the commanding officer.

Performance Standard.  N/A

Prerequisite.  Complete the M-SHARP formal training provided by the local INNOVASI support personnel.  5000, 5010, 5020, 5100, 5110, 5120, 5130.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

DESG-6322        0.5        *        B                                                                    G

Goal.  Designation as the unit Weapons and Tactics Instructor (WTI).

Requirement.  Be certified by MAWTS-1 as a WTI and be recommended for designation by the squadron WTI. The commanding officer will designate the WTI in writing.

Performance Standard.  N/A

Prerequisite.  6000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

7.11.5  SCHOOL CODES (SCHL) STAGE

7.11.5.1  Purpose.  To provide tracking codes for required schools and training.

7.11.5.2  General

Admin Notes.  The following table reflects skill enhancement training available to DASC Marines:

Prerequisite.  The individual school houses will maintain the prerequisites for each course that they offer. Refer to Skills Enhancement message and the school house for up to date prerequisites.

Crew Requirements.  None.

| SCHL CODE | NAME OF COURSE | LOCATION | CID |
|---|---|---|---|
| SCHL-6000 | Weapons and Tactics Instructor (WTI) | MCAS Yuma, AZ | M14P2A1 |
| SCHL-6001 | Senior Watch Officer's Course | MCAS Yuma, AZ | N/A |
| SCHL-6002 | Air Command and Control Officer's Course | MCAS Yuma, AZ | M1467Q1 |
| SCHL-6003 | ACE Battlestaff Officer Course (ABOC) | MCAS Yuma, AZ | N/A |
| SCHL-6010 | Airspace Course | Hurlburt Field, FL | F19KXD2 |
| SCHL-6011 | Personnel Recovery Course | Hurlburt Field, FL | F19KXE2 |
| SCHL-6012 | Plans/Ops Technician Course | Hurlburt Field, FL | F19KXF2 |
| SCHL-6015 | Joint Air Operation Center Command and Control Course (JAOC2C) Airspace Course | Hurlburt Field, FL | F19L2W2 |
| SCHL-6016 | Joint Air Operations Senior Staff Course | Hurlburt Field, FL | N/A |
| SCHL-6020 | Link 16 Basics Course (JT-100) | Joint Knowledge Online (JKO) | N/A |
| SCHL-6021 | Intro to Multi TDL Network (JT-101) | Fort Bragg, NC | N/A |
| SCHL-6022 | Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102) | Fort Bragg, NC | A05L6Z1 |
| SCHL-6023 | Link 16 Joint Interoperability Course (US-109) | Joint Knowledge Online (JKO) | N/A |
| SCHL-6024 | Multi TDL  Planner Course (JT-201) | Fort Bragg, NC | A05KHY1 |
| SCHL-6025 | Link 16 Unit Manager (LUM) Course (JT-220) | Fort Bragg, NC | N/A |
| SCHL-6026 | Joint Interface Control Officer (JICO) (JT-301) | Fort Bragg, NC | N/A |
| SCHL-6027 | Advanced JICC Operator Course (JT-310) | Fort Bragg, NC | N/A |
| SCHL-6067 | Military Airspace Management Course | NAS Biloxi, MS | F0273D1 |
| SCHL-6082 | Joint Firepower Course | Nellis AFB, NV | F27M7K2 |

7.11.6  OPERATIONS CODES (OPS) STAGE

7.11.6.1 <u>Purpose</u>. To provide tracking codes for operations and training.

7.11.6.2 <u>General</u>

<u>Admin Notes</u>. These codes serve to track participation in operations/deployments and completion of the Machine Gunners and RSO courses.

<u>Prerequisite</u>. The training office will utilize the following codes to track operational training. <u>Crew</u>

<u>Requirements</u>. None.

OPS-6455       0.5      \*       B                                   G

<u>Goal</u>. Track participation MEU deployments.

<u>Requirement</u>. Complete a MEU deployment as an ASCO or LNO.

<u>Performance Standard</u>. N/A

<u>Prerequisite</u>. None.

<u>Ordnance</u>. None.

<u>Range</u>. None.

<u>External Syllabus Support</u>. None.

<u>Reference</u>. None.

OPS-6465       0.5      \*       B                                   G

<u>Goal</u>. Track completion of Range Safety Officers (RSO) courses.

<u>Requirement</u>. Complete the RSO course.

<u>Performance Standard</u>. Per course POI.

<u>Prerequisite</u>. None.

<u>Ordnance</u>. None.

<u>Range</u>. None.

<u>External Syllabus Support</u>. None.

<u>Reference</u>. None.

7.12 <u>MISSION ESSENTIAL TASK (MET) PHASE (7000)</u>

7.12.1 <u>Purpose</u>. This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

7.12.2 <u>General</u>

7.12.2.1 <u>Admin Notes</u>.  Prerequisites for this phase of training cannot be waived.  Multiple events can be trained at the same time as long as separate evaluations are being conducted.

7.12.2.2 <u>Prerequisite</u>.  Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase.  For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

7.12.2.3 <u>Stages</u>.  The following stages are included in the Mission Essential Task (MET) Phase of training.

| MISSION ESSENTIAL TASK (MET) PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| CONDITION (COND) | 7.12.3 | 7-125 |

7.12.3  <u>CONDITION (COND) STAGE</u>

7.12.3.1 <u>Purpose</u>.  To train unit level teams in executing community specific MET(s) or MET preparatory events.

7.12.3.2 <u>General</u>

<u>Admin Notes</u>.  All events in this stage will require the following administrative/operational documents to be identified or created:

1. Letter Of Intent (LOI)
2. Personnel Roster
3. Bill of Material (BOM)
4. Equipment Density List (EDL)

<u>Prerequisite</u>.  If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

<u>Crew Requirements</u>.

COND-7400     3.0     730     B, R, M                                                L/S

<u>Goal</u>.  Employ an ASLT.

<u>Requirement</u>.  Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a ASLT to include the following:

1. Plan for Employment of a ASLT:
   a. Conduct Problem Framing.
      (1) Identify Level of Support Required of MASS Unit.
      (2) Develop Mission Statement / Commander's Intent.
   b. Create Employment Plan.
      (1) Coordinate with External Entities (and / or Agencies).
      (2) Identify Required Personnel and Equipment.
      (3) Conduct Site Reconnaissance and Selection.
      (4) Identify and Coordinate External Support Requirements.
   c. Create Supporting Planning Products.
      (1) Create / Publish POA&M / LOI.
      (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
      (3) Conduct Required Briefs. (IPC/MPC, Confirmation Brief, etc.)
2. Deploy an ASLT:
   a. Conduct Movement.

   (1) Conduct Embarkation (Unit to APOE).
   (2) Conduct Convoy Operations (APOD to TAA to tactical site).
  b. Establish ASLT Site.
   (1) Establish and Maintain Site Security.
   (2) Establish Communications and Connectivity.
   (3) Establish Administrative and Logistics Functions.
 3. Operate an ASLT:
  A. Conduct ASLT Operations.
 4. Sustain an ASLT:
  a. Conduct Staff Functions.
   (1) Conduct Administrative Functions.
   (2) Conduct Intelligence Functions.
   (3) Conduct Operations and Training.
   (4) Conduct Logistical Functions.
   (5) Conduct Communications Functions.
 5. Re-Deploy an ASLT:
  a. Plan for Re-Deployment.
   (1) Identify Logistics Requirements.
   (2) Identify External Support Requirements.
   (3) Identify Maintenance functions and Requirements.
   (4) Identify Administration Requirements and Functions.
  b. Conduct Movement
   (1) Conduct Convoy Operations. (Tactical Site to TAA to APOE).
   (2) Conduct Embarkation (APOD to the unit).

Performance Standard. Perform the requirement items listed and conduct ASLT operations supporting the DASC during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. (1) CMMR ASLT Crew.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. FSCC, air and fire support missions as defined by operational tempo level three, a DASC, S-1, S-2, S-3, S-4, S-6.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7405  3.0  730  B, R, M               L/S

Goal. Employ an ASE.

Requirement. Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a ASE to include the following:

 1. Plan for Employment of a ASE:
  a. Conduct Problem Framing.
   (1) Identify Level of Support Required of MASS Unit.
   (2) Develop Mission Statement / Commander's Intent.
  b. Create Employment Plan.
   (1) Coordinate with External Entities (and / or Agencies).
   (2) Identify Required Personnel and Equipment.

       (3) Conduct Site Reconnaissance and Selection.

       (4) Identify and Coordinate External Support Requirements.

   c. Create Supporting Planning Products.

       (1) Create / Publish POA&M / LOI.

       (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).

       (3) Conduct Required Briefs. (IPC/MPC, Confirmation Brief, etc.)

2. Deploy an ASE:

   a. Conduct Movement.

       (1) Conduct Embarkation (Unit to APOE).

       (2) Conduct Convoy Operations (APOD to TAA to tactical site).

   b. Establish ASE Site.

       (1) Establish and Maintain Site Security.

       (2) Establish External ASE Infrastructure.

       (3) Establish Internal ASE Infrastructure.

       (4) Establish Communications and Connectivity.

       (5) Establish Administrative and Logistics Functions.

3. Operate an ASE:

   a. Conduct ASE Operations.

       (1) Process Immediate Air Support Requests.

       (2) Integrate Aircraft Employment with Other Supporting Arms.

       (3) Manage Terminal Control Assets.

       (4) Procedurally Control Aircraft within Assigned Area of Operations.

4. Sustain an ASE:

   a. Conduct Staff Functions.

       (1) Conduct Administrative Functions.

       (2) Conduct Intelligence Functions.

       (3) Conduct Operations and Training.

       (4) Conduct Logistical Functions.

       (5) Conduct Communications Functions.

5. Re-Deploy an ASE:

   a. Plan for Re-Deployment.

       (1) Identify Logistics Requirements.

       (2) Identify External Support Requirements.

       (3) Identify Maintenance functions and Requirements.

       (4) Identify Administration Requirements and Functions.

   b. Conduct Movement

       (1) Conduct Convoy Operations. (Tactical Site to TAA to APOE).

       (2) Conduct Embarkation (APOD to the unit).

Performance Standard.  Perform the requirement items listed and conduct ASE operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.  (1) CMMR ASE Crew.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, air and fire support missions as defined by operational tempo three, FFCC/FSCC, and if required, a SACC and NTACC/HCS.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7410    3.0    730    B, R, M                                L/S

Goal.  Employ a DASC.

Requirement.  Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a DASC to include the following:

1. Plan for Employment of a DASC:
   a. Conduct Problem Framing.
      (1) Identify Level of Support Required of MASS Unit.
      (2) Identify Potential Need for DASC Extensions.
      (3) Develop Mission Statement/ Commander's Intent.
   b. Create Employment Plan.
      (1) Coordinate With External Entities (and / or Agencies).
      (2) Identify Required Personnel and Equipment.
      (3) Conduct Site Reconnaissance and Selection.
      (4) Identify and Coordinate External Support Requirements.
      (5) Plan for any/all required DASC Extensions.
   c. Create Supporting Planning Products.
      (1) Create / Publish POA&M / LOI.
      (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
      (3) Conduct Required Briefs (IPC/MPC, Confirmation Brief, etc.).
2. Deploy a DASC:
   a. Conduct Movement.
      (1) Conduct Embarkation (Unit to APOE).
      (2) Conduct Convoy Operations (APOD to TAA to tactical site).
   b. Establish DASC Site.
      (1) Establish and Maintain Site Security.
      (2) Establish External DASC Infrastructure.
      (3) Establish Internal DASC Infrastructure.
      (4) Establish Communications and Connectivity.
      (5) Establish Administrative and Logistics Functions.
3. Operate a DASC:
   a. Conduct DASC Operations.
      (1) Process Immediate Air Support Requests.
      (2) Integrate Aircraft Employment with Other Supporting Arms.
      (3) Manage Terminal Control Assets.
      (4) Procedurally Control Aircraft within Assigned Area of Operations.
   b. Manage DASC extensions.
4. Sustain a DASC:
   a. Conduct Staff Functions.
      (1) Conduct Administrative Functions.
      (2) Conduct Intelligence Functions.
      (3) Conduct Operations and Training.
      (4) Conduct Logistical Functions.
      (5) Conduct Communications Functions.
5. Re-Deploy a DASC:
   a. Plan for Re-Deployment.
      (1) Identify Logistics Requirements.
      (2) Identify External Support Requirements.
      (3) Identify Maintenance functions and Requirements.
      (4) Identify Administration functions and Requirements.
   b. Conduct Movement.
      (1) Conduct Convoy Operations (Tactical Site to TAA to APOE).
      (2) Conduct Embarkation (APOD to the unit).

Performance Standard.  Perform the requirement items listed and conduct DASC operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.  Two (2) CMMR DASC crews.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  Squadron SOP

COND-7415     3.0     730     B, R, M                                                        L/S

Goal.  Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the DASC.

Requirement.  Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operations order/initiating directive, conduct a RSOP for DASC operations to include the following:

1.  Conduct a Map Survey selecting primary and alternate sites.
2.  Identify environmental concerns that may affect DASC communication.
3.  Coordinate with the FSCC to provide DASC requirements.
4.  Coordinate site security, camouflage, dispersion, and trafficability.
5.  Identify locations for emplacement of communications and support equipment.
6.  Coordinate priorities for equipment emplacement.
7.  Identify echelon considerations.
8.  Identify Advanced Party/RSOP Team.
9.  Occupy the site.
10.  Emplace the DASC.

Performance Standard.  Perform the requirement items.  The RSOP team will be prepared to discuss decisions/actions.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  MASS Detachment Commander, DASC Chief, security team, Representatives from the following sections: S-4, S-2, S-6.

Reference.
1.  MCWP 3-16.3, TTP for the Field Artillery Cannon Battery
2.  MCWP 3-25.5, DASC Handbook
3.  MCWP 3-16.3, Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
4.  Squadron SOP

COND-7420     3.0     730     B, R, M                                                        L/S

Goal. Conduct Echelon Operations.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operations order/initiating directive, conduct echelon operations to include the following:

1. Continue DASC operations without pause or loss of situational awareness.
2. Checklists for the transfer of control are on hand and are utilized.
3. Deploy the echelon element to the new position.
4. Brief the operational crew concerning their duties for passage of control.
5. Establish and maintain required communications and connectivity.
6. Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted.
7. Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place.
8. Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft is verified.
9. Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft is verified.
10. Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand.
11. Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets.
12. Maintain continuous coordination with adjacent and higher agencies during preparation for and transfer of OAS/AS control, if required.
13. Pass control of DASC functions to the echelon element.
14. Notify the TACC, FSCC, and other agencies, as necessary, control has been passed.
15. Recover the rear element into the DASC when echelon operations have concluded.
16. Debrief with the DASC OIC and DASC Chief.

Performance Standard. Perform the requirement items listed to conduct echelon operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. Two (2) CMMR DASC crews.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7425    3.0    730    B, M, R                                                    S/L

Goal. Conduct Phasing of Control Ashore.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operations order/initiating directive, conduct phasing of control ashore to include the following:

1. Conduct a Map Survey selecting primary and alternate sites.

2.  Checklists for the transfer of control ashore are on hand and utilized.

3.  Review the procedures delineated in the operation plan/other directives for the phasing of control ashore and keeps the Naval Tactical Air Control Center informed of current status.

4.  Deploy ashore.

5.  Brief the operational crew concerning their duties for the passage of control.

6.  Establish and maintain required communications and connectivity.

7.  Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted.

8.  Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place.

9.  Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft.

10.  Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft.

11.  Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand.

12.  Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets.

13.  Ensure all requirements have been met and then advise the TACC (afloat) and FSCC that the DASC is prepared for the phasing of control of OAS/AS ashore.

14.  Ensure the preplanned sequence of phasing control of OAS/AS ashore is completed and the SAD acknowledges/produces any reports required.

15.  Advise CLF when ready to assume control of all or a portion of direct air support ashore (specify OAS, Assault Support, Air Recce, EW) at a specified date and time.

16.  Advise CLF that control has been transferred and the date/time group that transfer was accomplished.

17.  Advise the TACC (afloat)/TADC (ashore) and FSCC that the DASC now has control referencing date and time (local).

18.  Maintain continuous coordination with adjacent and higher agencies.

19.  Notify all adjacent agencies when transfer of control is completed.

20.  As necessary, DASC/SACC liaison team provides further updates of information upon arrival at DASC site.

Performance Standard.  Perform the requirement items listed to conduct phasing control ashore during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite.  (1) CMMR ASE crew or (1) CMMR DASC crew.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, Navy TACC, FSCC, Marine TACC, LFOC, SACC/HCS.

Reference.
1.  JP 3-02.1, Joint Doctrine for Landing Forces Operations
2.  MCWP 3-16.3, Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
3.  MCWP 3-25.5, DASC Handbook
4.  MCWP 3-40.3, MAGTF Communications System
5.  Squadron SOP

## 7.13 AVIATION CAREER PROGRESSION MODEL (8000).

7.13.1 Purpose.  To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the

MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

> Marine Air Command and Control System (MACCS)
> Aviation Ground Support
> Joint Air Operations
> ACE Battle Staff
> MAGTF
> Seabased Operations
> Combatant Commander Organizations

7.13.2  General.  The ACPM is intended to be an integrated series of academic events contained within each phase of training.  Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages.  Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction.  In the future, courses may be consolidated or revised to meet changing requirements.  Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/Aviation%20Career%20Progression%20Model/Forms/AllItems.aspx

Completed events shall be manually logged and tracked in M-SHARP.

ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

| STAGE | TRNG CODE | T&R DESCRIPTION | | ACAD TIME | TO BE COMPLETED DURING |
|-------|-----------|-----------------|---|-----------|------------------------|
| ACPM | 8000 | **MACCS** | | 1 | 2000 PHASE |
| ACPM | 8001 | MARINE AIR COMMAND AND CONTROL SYSTEM | | 4 | 2000 PHASE |
| ACPM | 8002 | TACTICAL AIR COMMAND CENTER (TACC) | | 4 | 2000 PHASE |
| ACPM | 8003 | DIRECT AIR SUPPORT CENTER (DASC) | | 4 | 2000 PHASE |
| ACPM | 8004 | TACTICAL AIR OPERATIONS CENTER (TAOC) | | 4 | 2000 PHASE |
| ACPM | 8005 | MARINE AIR TRAFFIC CONTROL (MATC) | | 4 | 2000 PHASE |
| ACPM | 8006 | LOW ALTITUDE AIR DEFENSE (LAAD) | | 4 | 2000 PHASE |
| ACPM | 8006 | MARINE UNMANNED AERIAL VEHICLE SQUADRON (VMU) | | 4 | 2000 PHASE |
| ACPM | 8008 | MARINE WING COMMUNICATION SQUADRON (MWCS) | | 4 | 2000 PHASE |
| ACPM | 8020 | **ACE** | | 1 | 2000 PHASE |
| ACPM | 8021 | AVIATION OPERATIONS | | 4 | 2000 PHASE |
| ACPM | 8022 | CONTROL OF AIRCRAFT AND MISSILES | | 4 | 2000 PHASE |
| ACPM | 8023 | OFFENSIVE AIR SUPPORT (OAS) | | 4 | 2000 PHASE |
| ACPM | 8024 | ASSAULT SUPPORT | | 4 | 2000 PHASE |
| ACPM | 8025 | AIR RECONNAISSANCE | | 4 | 2000 PHASE |
| ACPM | 8026 | ELECTRONIC WARFARE | | 4 | 2000 PHASE |
| ACPM | 8027 | ANTI-AIR WARFARE | | 4 | 2000 PHASE |
| ACPM | 8028 | AVIATION GROUND SUPPORT | | 4 | 2000 PHASE |
| ACPM | 8040 | **THREAT** | | 1 | 2000 PHASE |
| ACPM | 8041 | SURFACE TO AIR THREAT TO THE MAGTF | | 4 | 2000 PHASE |

| | | | | | |
|------|------|------------------------------------------------|---|-----|------------|
| ACPM | 8042 | FIXED WING THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8043 | ROTARY WING THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8044 | MISSILE AND UAS THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8060 | **MAGTF** | | 1 | 3000 PHASE |
| ACPM | 8061 | GROUND COMBAT OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8062 | FIRE SUPPORT COORDINATION IN THE GCE | | 4 | 3000 PHASE |
| ACPM | 8063 | MAGTF COMMAND AND CONTROL | | 4 | 3000 PHASE |
| ACPM | 8064 | MAGTF COMMUNICATIONS | | 4 | 3000 PHASE |
| ACPM | 8065 | PHASING CONTROL ASHORE | | 4 | 3000 PHASE |
| ACPM | 8066 | INFORMATION MANAGEMENT | | 4 | 3000 PHASE |
| ACPM | 8067 | UAS SUPPORT OF THE MAGTAF | | 4 | 3000 PHASE |
| ACPM | 8080 | **JOINT AIR OPERATIONS** | | 1 | 3000 PHASE |
| ACPM | 8081 | COMMAND AND CONTROL OF JOINT AIR OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8082 | THEATER AIR GROUND SYSTEM (TAGS) | | 4 | 3000 PHASE |
| ACPM | 8083 | JOINT FIRE SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8084 | CLOSE AIR SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8085 | JOINT TARGETING | | 4 | 3000 PHASE |
| ACPM | 8086 | NORTH ATLANTIC TREATY ORGANIZATION (NATO) | | 4 | 3000 PHASE |
| ACPM | 8087 | JOINT AIRSPACE CONTROL | | 4 | 3000 PHASE |
| ACPM | 8088 | COUNTERING AIR AND MISSILE THREATS | | 4 | 3000 PHASE |
| TOTAL ACPM STAGE | | | 40 | 145 | |

7.14  T&R SYLLABUS MATRIX

| STAGE | CODE | EVENT / TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |
| all | | | | | | | | | | | | | | | | | | | |

<table>

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| AIRS | 1000 | Explain the fundamentals of Aviation Command and Control (Air C2) employment | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1100 | Identify components of MAGTF Operations | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1102 | Identify how the Marine Aircraft Wing supports the MAGTF | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1104 | Identify Offensive Air Support (OAS) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1106 | Identify Assault Support (AS) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1108 | Identify Aerial Reconnaissance | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1110 | Identify Anti-Air Warfare (AAW) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1112 | Identify Electronic Warfare (EW) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1114 | Identify Control of Aircraft and Missiles | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1116 | Identify threats to the Marine Air Ground Task Force (MAGTF) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1118 | React to Threats affecting DASC Operations | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1120 | Extract critical information from operations documents for the DASC | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1122 | State the proper procedures for handling and storage of classified materials | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1124 | Identify Air Support Communications Equipment | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |

</table>

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| AIRS | 1126 | Identify the purpose of Common Aviation Command and Control System (CAC2S) components | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1128 | Conduct communications utilizing CAC2S | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1130 | Conduct Information Security during DASC Operations | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1132 | Plot Direct Air Support Information | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1134 | Receive and process immediate air support requests | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1136 | Operate Tactical Display Framework (TDF) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1138 | Operate Joint Tactical Common Operational Picture Workstation (JTCW) Client | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1144 | Familiarize the operator on Theater Battle Management Core System (TBMCS) for direct air support operations | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1146 | Operate the Effects Management Tool (EMT) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1148 | Define elements of information exchange within the MAGTF Communications System | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1150 | Identify the components of the air picture | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1152 | Perform as a Tactical Air Director (TAD) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1154 | Perform as the Helicopter Air Director (HD) | B | | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| TOTAL CORE SKILL INTRODUCTION (1000 PHASE EVENTS) | | | | | | | | | | 27 | 0 | 0 | 0 | 0 | 0 | | | | |
| CORE SKILL TRAINING (2000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |

Table title: DASC 7208 T&R SYLLABUS MATRIX

| STAGE | CODE | TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |
| DASC 7208 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
| CORE SKILL ACADEMICS (ACAD) | | | | | | | | | | | | | | | | | | | |
| ACAD | 2045 | Identify DASC crew positions | B | | G | - | - | - | * | | 1 | | 0 | | 0 | 8003 | - | - | 2045 |
| ACAD | 2050 | Identify storage and handling of classified material | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2050 |
| ACAD | 2055 | Identify Airspace Coordination Measures / Fire Support Coordination Measures | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2055 |
| ACAD | 2060 | Identify weather reports and impacts of weather on aviation operations | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2060 |
| ACAD | 2065 | Describe aviation ordnance | B | | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2065 |
| TOTAL CORE SKILL ACADEMIC STAGE (ACAD) | | | | | | | | | | 5 | 5 | 0 | 0 | 0 | 0 | | | | |
| COMMUNICATIONS SKILLS (COMM) | | | | | | | | | | | | | | | | | | | |
| COMM | 2115 | Describe current man portable radios | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | - | - | - | 2115 |
| COMM | 2120 | Describe current HF/VHF radios | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | - | - | - | 2120 |
| COMM | 2130 | Identify communication problems | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2170, 2400, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 8000, 8020, 8040, 8062, 8063 | - | - | 2130 |
| TOTAL COMMUNICATION SKILLS STAGE (COMM) | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 3 | | | | |
| EQUIPMENT (EQUIP) | | | | | | | | | | | | | | | | | | | |
| EQUIP | 2150 | Identify the characteristics, capabilities and limitations of the CS | B | - | L | - | - | - | * | | 0 | | 0 | | 1.5 | 2115, 2120 | - | - | 2150 |
| EQUIP | 2155 | Employ and maintain organic DASC shelter | B | - | L | - | - | - | * | | 0 | | 0 | | 1.5 | - | - | - | 2155 |
| EQUIP | 2160 | Identify the characteristics, capabilities and limitations of Motor Transport and Utilities | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | - | - | - | 2160 |

| | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | | |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | (MT/UT) equipment associated with the MASS | | | | | | | | | | | | | | | | | | |
| EQUIP | 2165 | Identify the characteristics, capabilities and limitations of the DASC MRC vehicles | | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | 2115, 2120 | - | - | 2165 |
| EQUIP | 2170 | Emplace and displace the Processing and Display System (PDS) Operations Facility (OPFAC) | | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2155 | - | - | 2170 |
| TOTAL EQUIPMENT  SKILLS STAGE (EQUIP) | | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 6 | | | | |
| AIR SUPPORT ELEMENT (ASE) | | | | | | | | | | | | | | | | | | | | |
| ASE | 2200 | Brief a GCE Scheme of Maneuver | | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062 | - | - | 2200 |
| ASE | 2205 | Brief the purpose, capabilities and limitations of an ASE to a GCE/ACE Commander | | B | - | L/S | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, | - | - | 2205 |

DASC 7208 T&R SYLLABUS MATRIX

| | | | DASC 7208 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | | 6230, 6255, 8000, 8020, 8040, 8062 | | | |
| ASE | 2210 | Explain the targeting cycle | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062 | - | - | 2210 |
| ASE | 2215 | Explain the purposes of Navy Amphibious Ships | B | | L | - | - | - | * | | 0 | | 0 | | 3 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062 | - | - | 2215 |
| ASE | 2220 | Brief the roles and responsibilities of Key Personnel in the SACC/LFOC/FSCC | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, | - | - | 2220 |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062 | | | |
| ASE | 2225 | Define the Navy Tactical Air Control System | B | | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8062 | - | - | 2225 |
| TOTAL AIR SUPPORT ELEMENT SKILLS STAGE (ASE) | | | | | | | | | | 0 | 0 | 0 | 0 | 6 | 10 | | | | |
| AIR SUPPORT LIAISON TEAM (ASLT) | | | | | | | | | | | | | | | | | | | |
| ASLT | 2250 | Brief a GCE Scheme of Maneuver | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 3005, 3010, 3015, 3020, 6230 <br><br> OR <br><br> 3105, 3110, 3115, 3120, 6235 <br><br> AND <br><br> 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, | - | - | 2250 |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8060. | | | |
| ASLT | 2255 | Brief the purpose, capabilities and limitations of the ASLT | B | - | L | - | - | - | * | 0 | | 0 | | 1 | | 3005, 3010, 3015, 3020, 6230<br><br>OR<br><br>3105, 3110, 3115, 3120, 6235<br><br>AND<br><br>2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8060. | - | - | 2255 |

Column headers (multi-row):

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |

DASC 7208 T&R SYLLABUS MATRIX

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | TIME | SIM EVENTS # | TIME | LIVE EVENTS # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASLT | 2260 | State the configuration of a TACP | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 3005, 3010, 3015, 3020, 6230  OR  3105, 3110, 3115, 3120, 6235  AND  2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902,  2921, 2940, 3000, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8060. | - | - | 2260 |
| TOTAL AIR SUPPORT LIAISON TEAM SKILLS STAGE (ASLT) | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 3 | | | | |
| DASC OIC (DOIC) | | | | | | | | | | | | | | | | | | | |
| DOIC | 2300 | Create and supervise the conduct of a DASC Drill | B | - | L | - | - | - | * | | 0 | | 0 | | 80 | 8000, 8020, 8040 | - | - | 2300 |
| DOIC | 2305 | Conduct DASC site selection | B | - | L/S | - | - | - | * | | 0 | | 0 | | 1.5 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, | - | - | 2305 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8062 | | | |
| DOIC | 2310 | Describe DASC displacement operations | B | - | L | - | - | - | * | | 0 | | 0 | | 1.5 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8062 | - | - | 2310 |
| DOIC | 2315 | Determine DASC requirements | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3220, 3225, 3230, 3235, 3240, 6020. 6023, | - | - | 2315 |

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | DEVICE # | DEVICE OPTION | COND | REFLY | GROUND/ACADEMIC EVENTS # | GROUND/ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | | | |
| DOIC | 2320 | Develop a load plan | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2315, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | - | - | 2320 |
| DOIC | 2325 | State the procedures and challenges of Phasing Control Ashore | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2315, 2320, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, | - | - | - |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 6255, 8000, 8020, 8040, 8060, 8080 | | | |
| TOTAL DASC OIC SKILLS STAGE (DOIC) | | | | | | | | | | 0 | 0 | 0 | 0 | 6 | 89 | | | | |
| FAMILIARIZATION (FAM) | | | | | | | | | | | | | | | | | | | |
| FAM | 2350 | Observe a Tactical Air Control Party (TACP) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8023 | - | - | 2350 |
| FAM | 2355 | Observe a TACC COPS | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8002, 8003 | - | - | 2355 |
| FAM | 2365 | Observe a Fire Support Coordination Center (FSCC) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8062 | - | - | 2365 |
| FAM | 2370 | Observe the TAOC or EW/C | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8004 | - | - | 2370 |
| FAM | 2375 | Observe an Air Traffic Control Facility (ATCF) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8005 | - | - | 2375 |
| TOTAL FAMILIARIZATION SKILLS STAGE (FAM) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 10 | | | | |
| PROCEDURAL CONTROL SKILLS (CTRL) | | | | | | | | | | | | | | | | | | | |
| CTRL | 2400 | Extract critical information from the ATO, ACO, and SPINS documents | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8000, 8020, 8040 | - | - | 2400 |
| CTRL | 2405 | Conduct Tactical Air Director (TAD) or Helicopter Director (HD) duties in a Chemical Biological Radiological Nuclear (CBRN) environment | B | - | S | - | - | - | * | | 0 | | 4 | | 0 | 8000, 8020, 8040 | - | - | 2405 |
| CTRL | 2410 | Maintain information on the DASC Tactical Display | B,R,M | - | L/S | - | - | - | 365 | | 0 | | 0 | | 2 | 2808, 2809, 2811, 2814, 2819, 8000, 8020, 8040 | - | - | 2410 |
| CTRL | 2415 | LEVEL 1 - Control of FW or RW aircraft | B,R,M | - | L | - | - | - | 730 | | 0 | | 0 | | 4 | 2400, 8000, 8020, 8040 | - | - | 2415 |
| CTRL | 2420 | LEVEL 2 - Control of FW or RW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 2415, 8000, 8020, 8040 | - | - | 2420 |
| CTRL | 2425 | LEVEL 3 - Control of FW or RW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 2415, 2420, 8000, 8020, 8040 | - | - | 2425 |
| TOTAL PROCEDURAL CONTROL SKILLS STAGE (CTRL) | | | | | | | | | | 0 | 0 | 1 | 4 | 5 | 16 | | | | |
| SENIOR AIR DIRECTOR (SAD) | | | | | | | | | | | | | | | | | | | |

**DASC 7208 T&R SYLLABUS MATRIX**

| | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | | |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| SAD | 2455 | Conduct the duties of Senior Air Director (SAD) during echelon operations and passage of control | B | - | S/L | - | - | - | * | | 0 | | 8 | | 0 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | - | - | 2455 |
| SAD | 2460 | State the duties and responsibilities of a DASC Senior Air Director | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | - | - | 2460 |

DASC 7208 T&R SYLLABUS MATRIX

| | | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | | | |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| SAD | 2465 | Match appropriate available aviation assets with requests | B | - | L | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | - | - | 2465 |
| SAD | 2470 | Determine prioritization of communication links | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | - | - | 2470 |

Table title: DASC 7208 T&R SYLLABUS MATRIX

| | | DASC 7208 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| SAD | 2475 | Extract critical information from supporting documents | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | - | - | 2475 |
| TOTAL SENIOR AIR DIRECTOR SKILLS STAGE (SAD) | | | | | | | | | | 0 | 0 | 1 | 8 | 4 | 7 | | | | |
| TACTICAL DATA LINKS (TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 2800 | Identify the purpose of documents that enable Tactical Data Link (TDL) operations | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 2803 | Identify DASC voice and data communications equipment | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2010 |
| TDL | 2808 | Describe the Joint Data Network | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2000 |
| TDL | 2809 | Describe the Multi-Tactical Data Link (TDL) Interface | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | 2005 |
| TDL | 2811 | Identify basic track data | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | 2020 |
| TDL | 2812 | Identify information contained within J-Series Messages that may be displayed to the operator | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 2813 | Identify tactical data link orders associated with Network Participating Group (NPG) 8 and 9 | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |

## DASC 7208 T&R SYLLABUS MATRIX

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TDL | 2814 | Describe Data Filters | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | 2025 |
| TDL | 2817 | Define terms associated with Link 16 | B | - | G | - | - | - | * | | 3 | | 0 | | 0 | - | - | - | 4000 |
| TDL | 2818 | State the characteristics of Link 16 | B | - | G | - | - | - | * | | 3 | | 0 | | 0 | - | - | - | - |
| TDL | 2819 | State the characteristics of the Joint Range Extension Application Protocol (JREAP) | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | 2015 |
| TDL | 2820 | Identify mission essential segments, sets, and fields within the OPTASK LINK message | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | 2035 |
| TDL | 2822 | State the Interface Control Officer responsibilities | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 2823 | State the characteristics of the Variable Message Format (VMF) | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| **TOTAL TACTICAL DATA LINKS SKILLS STAGE (TDL)** | | | | | | | | | | 14 | 24 | 0 | 0 | 0 | 0 | | | | |
| **COMMAND AND CONTROL SYSTEMS (C2SYS)** | | | | | | | | | | | | | | | | | | | |
| C2SYS | 2900 | Set up profile on TBMCS client | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | TBMCS | - | 2900 |
| C2SYS | 2901 | Access TBMCS Online Master Help Index | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2900 | TBMCS | - | 2901 |
| C2SYS | 2902 | Utilize the TBMCS Alerts Service Web Applications | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2900, 2901 | TBMCS | - | 2902 |
| C2SYS | 2910 | ESTAT | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | 2900, 2901, 2902 | TBMCS | - | - |
| C2SYS | 2911 | WARP | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | 2900, 2901, 2902 | TBMCS | - | - |
| C2SYS | 2921 | Operate C2 Personal Computer (JTCW) | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | JTCW | - | 2921 |
| C2SYS | 2940 | Utilize Tactical Chat | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | PC | - | 2940 |
| **TOTAL COMMAND AND CONTROL SYSTEM SKILLS STAGE (C2SYS)** | | | | | | | | | | 7 | 12.5 | 0 | 0 | 0 | 0 | | | | |
| **TOTAL CORE SKILL PHASE (2000 PHASE)** | | | | | | | | | | 26 | 41.5 | 2 | 12 | 37 | 144 | | | | |
| **MISSION SKILL TRAINING (3000 PHASE EVENTS)** | | | | | | | | | | | | | | | | | | | |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EVENT | | | | DEVICE | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| | | | | | | DEVICE | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | | | |

**DASC 7208 T&R SYLLABUS MATRIX**

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | G/A # | G/A TIME | SIM # | SIM TIME | LIVE # | LIVE TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HELICOPTER DIRECTOR SKILLS (HD) | | | | | | | | | | | | | | | | | | | |
| HD | 3000 | Level 1 - Control RW aircraft | B | - | L | - | - | - | * | | 0 | | 0 | | 4 | 2400, 8000, 8020, 8040, 8062 | - | - | 3000 |
| HD | 3005 | Level 2 - Control RW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 3000, 8000, 8020, 8040, 8062 | - | - | 3005 |
| HD | 3010 | Level 3 - Control RW aircraft | B,R,M | - | L/S | - | - | - | 1095 | | 0 | | 0 | | 4 | 2400, 3000, 3005, 8000, 8020, 8040, 8062 | - | 2410, 2415 | 3010 |
| HD | 3015 | Level 4 - Control RW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 3000, 3005, 3010, 8000, 8020, 8040, 8062 | - | 2410, 2415, 3010 | 3015 |
| HD | 3020 | Level 5 - Control RW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 3000, 3005, 3010, 3015, 8000, 8020, 8040, 8062 | - | 2410, 2415, 3010, 3015 | 3020 |
| TOTAL HELICOPTER DIRECTOR SKILLS STAGE (HD) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| TACTICAL AIR DIRECTOR (TAD) | | | | | | | | | | | | | | | | | | | |
| TAD | 3100 | Level 1 - Control FW aircraft | B | - | L | - | - | - | * | | 0 | | 0 | | 4 | 2400, 8000, 8020, 8040, 8062 | - | - | 3100 |
| TAD | 3105 | Level 2 - Control FW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 3100, 8000, 8020, 8040, 8062 | - | - | 3105 |
| TAD | 3110 | Level 3 - Control FW aircraft | B,R,M | - | L/S | - | - | - | 1095 | | 0 | | 0 | | 4 | 2400, 3100, 3105, 8000, 8020, 8040, 8062 | - | 2410, 2415 | 3110 |
| TAD | 3115 | Level 4 - Control FW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 3100, 3105, 3110, 8000, 8020, 8040, 8062 | - | 2410, 2415, 3110 | 3115 |
| TAD | 3120 | Level 5 - Control FW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2400, 3100, 3105, 3110, 3115, 8000, 8020, 8040, 8062 | - | 2410, 2415, 3110, 3115 | 3120 |
| TOTAL TACTICAL AIR DIRECTOR SKILLS STAGE (TAD) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| SENIOR AIR DIRECTOR (SAD) | | | | | | | | | | | | | | | | | | | |
| SAD | 3200 | Level 1 - Perform as an SAD | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | - | 3200 |

| | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | COND | REFLY | | | | | | | PREREQ | | | |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| SAD | 3205 | Level 2 - Perform as an SAD | B | - | L/S | - | - | - | * | 0 | | 0 | | 4 | | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | | 3205 |
| SAD | 3210 | Level 3 - Perform as an SAD | B,R,M | - | L/S | - | - | - | 1095 | 0 | | 0 | | 4 | | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | 2410 | 3210 |
| SAD | 3215 | Level 4 - Perform as an SAD | B | - | L/S | - | - | - | * | 0 | | 0 | | 4 | | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | 2410, 3210 | 3215 |

**DASC 7208 T&R SYLLABUS MATRIX**

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | | | | |
|span header| DASC 7208 T&R SYLLABUS MATRIX |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAD | 3220 | Level 5 - Perform as an SAD | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | 2410, 3210, 3215 | 3220 |
| SAD | 3225 | Manage a DASC extension | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | - | 3225 |
| SAD | 3230 | Coordinate airspace with Joint Aviation C2 agency(ies) within a joint environment | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | - | 3230 |

| | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | | PREREQ | | | |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | |
| SAD | 3235 | Coordinate airspace for Guided Multiple Launch Rocket System (GMLRS) or Army Tactical Missile System (ATACMS) | | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | - | 3235 |
| SAD | 3240 | Utilize the execution checklist item | | B | - | L/S | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | - | 3240 |
| TOTAL SENIOR AIR DIRECTOR SKILLS STAGE (SAD) | | | | | | | | | | | 0 | 0 | 2 | 8 | 7 | 25 | | | |
| AIR SUPPORT LIAISON TEAM OIC (ASLT) | | | | | | | | | | | | | | | | | | | |
| ASLT | 3300 | Perform as an ASLT OIC | | B,R,M | - | L/S | - | - | - | 730 | | 0 | | 0 | | 4 | 2250, 2255, 2260 | - | - | 3300 |
| TOTAL AIR SUPPORT LIAISON TEAM OIC SKILLS STAGE (ASLT) | | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 4 | | | |
| AIR SUPPORT ELEMENT OIC (ASE) | | | | | | | | | | | | | | | | | | | |
| ASE | 3350 | Perform ASE operations | | B,R,M | - | L/S | - | - | - | 730 | | 0 | | 0 | | 4 | 2200, 2205, 2210, 2215, 2220, 2225 | - | - | 3350 |
| TOTAL AIR SUPPORT ELEMENT OIC SKILLS STAGE (ASE) | | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 4 | | | |
| DASC OIC (DOIC) | | | | | | | | | | | | | | | | | | | |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DOIC | 3400 | Conduct the duties of a DASC OIC during a field deployment/exercise | B,R,M | - | L/S | - | - | - | 730 | | 0 | | 0 | | 120 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2131, 2150, 2155, 2160, 2300, 2305, 2310, 2315, 2320, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3220, 3225, 3230, 3235, 3240, 6230, 6235, 8000, 8020, 8040, 8060 | - | - | 3400 |
| TOTAL DASC OIC SKILLS STAGE (DOIC) | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 120 | | | | |
| TOTAL MISSION SKILL PHASE (3000 PHASE) | | | | | | | | | | 0 | 0 | 2 | 8 | 20 | 193 | | | | |
| CORE PLUS SKILL TRAINING (4000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| AIR SUPPORT ELEMENT (ASE) | | | | | | | | | | | | | | | | | | | |
| ASE | 4100 | Perform ASE operations during an amphibious operation | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2200, 2205, 2210, 2215, 2220, 2225, 3350 | - | - | - |
| TOTAL AIR SUPPORT ELEMENT SKILLS STAGE (ASE) | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 4 | | | | |
| SENIOR AIR DIRECTOR (SAD) | | | | | | | | | | | | | | | | | | | |
| SAD | 4150 | Coordinate deep fires | B | - | L/S | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2400, 2415, 2420, 2425, 2900, 2901, 2902, 2910, 2911, 2920, 2921, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 6230, 6235, 8000, 8020, 8040, 8060, 8080 | - | - | 4150 |
| TOTAL SENIOR AIR DIRECTOR SKILLS STAGE (SAD) | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 1 | | | | |
| FAMILIARIZATION (FAM) | | | | | | | | | | | | | | | | | | | |
| FAM | 4300 | Observe the configuration and operation of a LAAD Battalion | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8006 | - | - | 4300 |

| | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | POI | E | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | | |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| FAM | 4305 | Observe the configuration and operation of a Marine Air Traffic Control Mobile Team | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8005 | - | - | 4305 |
| FAM | 4310 | Observe the configuration and operation of a Supporting Arms Coordination Center (SACC) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8062, 8063, 8065 | - | - | 4310 |
| FAM | 4315 | Observe the configuration and operation of a Navy Tactical Air Control Center/Helicopter Direction Center (TACC/HCS) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8062, 8063, 8065 | - | - | 4315 |
| FAM | 4320 | Observe VMU operations | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8007 | - | - | 2360 |
| TOTAL FAMILIARIZATION SKILLS STAGE (FAM) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 10 | | | | |
| TACTICAL DATA LINK (TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 4801 | Identify TACC voice and data communications equipment | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4802 | Identify TAOC and EW/C voice and data communications equipment | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4804 | Identify UAS voice and data communications equipment | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4805 | Identify LAAD voice and data communications equipment | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4806 | Identify MATC voice and data communications equipment | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4807 | Identify missions and TDL capabilities of Joint Tactical Data Systems (TDS) | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4810 | Identify Interface Unit (IU) categories and addressing requirements | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4815 | State the Characteristics of Link 11 | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4816 | State the characteristics of Link 11B | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |

| | | | | | | | | | | | | | | | | | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | | | | |
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | | | |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | | |
| TDL | 4821 | State the purpose of Interface Coordination procedures | | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | | - | - | - |
| TDL | 4824 | Identify elements of Combat Net Radios (CNR) Networks | | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | | - | - | - |
| TDL | 4825 | Identify elements of the OPTASK LINK Combat Net Radios (CNR)Segment/Supplement | | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | | - | - | - |
| TDL | 4826 | State the characteristics of Cooperative Engagement Capability (CEC) | | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | | - | - | - |
| TDL | 4828 | Operate a Joint Range Extension (JRE) Gateway | | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | - | | - | - | 4050 |
| TDL | 4830 | Operate an Air Defense Systems Integrator (ADSI) | | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | | - | - | - |
| TDL | 4832 | Operate Link 11 | | B | - | L | - | - | - | * | | 0 | | 0 | | 4 | - | | - | - | - |
| TDL | 4834 | Operate Link 11B | | B | - | L | - | - | - | * | | 0 | | 0 | | 4 | - | | - | - | 2900 |
| TDL | 4836 | Operate Link 16 | | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | - | | - | - | 2900 |
| TDL | 4838 | Operate JREAP A | | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2809, 2814, 2820, 2817, 2818 | | - | - | 2901 |
| TDL | 4840 | Operate JREAP B | | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2809, 2814, 2819, 2820 | | - | - | 2902 |
| TDL | 4842 | Operate JREAP C | | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2809, 2814, 2819, 2820 | | - | - | - |
| TDL | 4843 | Troubleshoot Link 11 | | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2820, 4815 | | - | - | - |
| TDL | 4844 | Troubleshoot Link 11B | | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2820, 4815 | | - | - | - |
| TDL | 4845 | Troubleshoot Link 16 | | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2814, 2820, 4836, 2817, 2818 | | - | - | - |
| TDL | 4846 | Troubleshoot JREAP A | | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2814, 2819, 2820, 4838 | | - | - | 2920 |
| TDL | 4847 | Troubleshoot JREAP B | | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2814, 2819, 2820, 4840 | | - | - | 2921 |
| TDL | 4848 | Troubleshoot JREAP C | | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2814, 2819, 2820, 3842 | | - | - | - |

DASC 7208 T&R SYLLABUS MATRIX

Enclosure (1)

| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | | | | | |

DASC 7208 T&R SYLLABUS MATRIX

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TDL | 4849 | Conduct tactical data link planning for an agency | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| TDL | 4850 | Conduct tactical data link coordination for an agency | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| TDL | 4851 | Perform track data coordination for a track producing agency | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | - | - | - | - |
| TDL | 4852 | Perform Link 16 Management Functions | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2809, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2821, 3836, 3838, 3840, 3842, 3845, 3846, 3847, 3848, 4810, 4815, 4830 | - | - | - |
| TDL | 4853 | Perform as the Track Data Coordinator | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | - | - | - | - |
| TDL | 4854 | State the characteristics of Link 16 | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2807, 2808, 2809, 2811, 2813, 2814, 2817, 2818, 2819, 2820, 2821, 2822, 2826,  4810, 4815, 4830 | - | - | - |
| TDL | 4855 | State the characteristics of the Joint Range Extension Application Protocol (JREAP) | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2807, 2808, 2809, 2811, 2813, 2814, 2817, 2818, 2819, 2820, 2821, 2822, 2826,  3836, 3838, 3840, 3842, 3843, 3845, 3846, 3847, 3848, 3852, 4810, 4815, 4830 | - | - | - |
| TOTAL TACTICAL DATA LINK SKILLS STAGE (TDL) | | | | | | | | | | | 14 | 17 | 0 | 0 | 20 | 91 | | | | |
| COMMAND AND CONTROL SYSTEMS (C2SYS) | | | | | | | | | | | | | | | | | | | | |
| C2SYS | 4904 | Demonstrate proficiency with TBMCS Web Mapping | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | TBMCS | - | 2904 |
| C2SYS | 4905 | Demonstrate proficiency utilizing the Air Tasking Order Airspace Control Order Tool (AATWEB) | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4906 | Demonstrate proficiency with the TBMCS Web Based | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | TBMCS | - | - |

| STAGE | CODE | TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Airspace Deconfliction Software (WEBAD) | | | | | | | | | | | | | | | | | |
| C2SYS | 4907 | Demonstrate proficiency generating TBMCS battle management reports | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4908 | Demonstrate proficiency with the TBMCS Air Battle Information Monitoring (ABIM) tool | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4909 | Demonstrate proficiency using the TBMCS Force Status and Monitoring (FSTAT) tool to monitor and update Friendly Order of Battle (FrOB) status | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4912 | Demonstrate proficiency with TBMCS Marine Corps Air Mission Planner (MCAMP) for Mission Replanning | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4913 | Demonstrate proficiency importing an airspace group in TBMCS | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | TBMCS | - | 2913 |
| C2SYS | 4914 | Demonstrate proficiency creating a TBMCS Air Battle Plan (ABP) shell | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4915 | Demonstrate proficiency creating ground targets in TBMCS | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4916 | Demonstrate proficiency creating missions in TBMCS | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | TBMCS | - | - |
| C2SYS | 4917 | Demonstrate proficiency publishing the ATO | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | TBMCS | - | 2917 |
| C2SYS | 4920 | AFATDS | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | AFATDS | - | 2920 |
| C2SYS | 4922 | BFT | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | BFT | - | - |
| C2SYS | 4924 | JADOCS | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | JADOCS | - | - |

DASC 7208 T&R SYLLABUS MATRIX

| DASC 7208 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| C2SYS | 4925 | Demonstrate proficiency operating Combat Survivor Evader Locator (CSEL) | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | - | - | - |
| C2SYS | 4941 | Operate Web Development Software | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | - | - | 4941 |
| TOTAL COMMAND AND CONTROL SYSTEMS SKILLS STAGE (C2SYS) | | | | | | | | | | 17 | 46 | 0 | 0 | 0 | 0 | | | | |
| TOTAL CORE PLUS SKILL PHASE (4000 PHASE) | | | | | | | | | | 31 | 63 | 0 | 0 | 27 | 106 | | | | |
| TOTAL 2000, 3000, AND 4000 PHASE | | | | | | | | | | 57 | 104.5 | 4 | 20 | 84 | 443 | | | | |
| INSTRUCTOR TRAINING (5000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| INSTRUCTOR UNDER TRAINING (IUT) | | | | | | | | | | | | | | | | | | | |
| BASIC INSTRUCTOR (BI) | | | | | | | | | | | | | | | | | | | |
| IUT | 5000 | Introduce principles of instruction | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | Recommended by SI or WTI | - | - | - |
| IUT | 5010 | Describe individual T&R requirements | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | - |
| IUT | 5020 | Conduct a period of instruction on a T&R event | B,R | - | L | - | - | - | 365 | | 0 | | 0 | | 12 | 5000, 5010 | - | 5110 | - |
| TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI) | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 16 | | | | |
| SENIOR INSTRUCTOR (SI) | | | | | | | | | | | | | | | | | | | |
| IUT | 5100 | Describe the Aviation T&R program | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 5000, 5010, 5020 | - | - | - |
| IUT | 5110 | Understand Applicable Community T&R | B,R | - | L | - | - | - | 365 | | 0 | | 0 | | 4 | 5000, 5010, 5020, 5100 | - | 5020 | - |
| IUT | 5120 | Understand T&R Administration | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 5000, 5010, 5020, 5100, 5110 | - | - | - |
| IUT | 5130 | Develop a training plan | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 5000, 5010, 5020, 5100, 5110, 5120 | - | - | - |
| TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 10 | | | | |
| TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT) | | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 26 | | | | |
| REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE) | | | | | | | | | | | | | | | | | | | |
| QUALIFICATIONS (QUAL) | | | | | | | | | | | | | | | | | | | |
| QUAL | 6230 | Qualify as a Helicopter Director (HD) | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, | - | - | 6230 |

| | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | POI | E | DEVICE | | | COND | REFLY | | | | | | PREREQ | | | |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | |
| | | | | | | | | | | | 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 6020, 6023, 6255, 8000, 8020, 8040, 8062 | | | |
| QUAL | 6235 | Qualify as a Tactical Air Director (TAD) | B | - | G | - | - | - | * | | 0.5 | 0 | | 0 | | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 3105, 3110, 3115, 3120, 6020, 6023, 6255, 8000, 8020, 8040, 8062 | - | - | 6235 |
| QUAL | 6240 | Qualify as a Senior Air Director (SAD) | B | - | L | - | - | - | * | | 0 | 0 | | 2 | | 2250, 2255, 2260, 3300, 6245<br><br>OR<br><br>2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250<br><br>AND<br><br>2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2350, 2355, 2365, 2370, 2375, 2400, 2405, | - | - | 6240 |

| | | DASC 7208 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | NOTES | CHAIN | EVENT |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | | | | CONV |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | | |
| | | | | | | | | | | | | | | | | | 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 6020, 6023, 6230, 6235, 6255, 8000, 8020, 8040, 8060, 8080 | | | | |
| QUAL | 6245 | Qualify as an ASLT OIC (ASLT OIC) | | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 3005, 3010, 3015, 3020, 6230 OR 3105, 3110, 3115, 3120, 6235 AND 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2250, 2255, 2260, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3100, 3300, 6020, 6023, 6255, 8000, 8020, 8040, 8060 | - | - | 6245 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC 7208 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| QUAL | 6250 | Qualify as an ASE OIC (ASE OIC) | | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2215, 2220, 2225, 2350, 2355, 2365, 2370, 2400, 2405, 2410, 2415, 2420, 2425, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2819, 2820, 2900, 2901, 2902, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3350, 6020, 6023, 6230, 6255, 8000, 8020, 8040, 8060 | - | - | 6250 |
| QUAL | 6255 | Qualify as a Controller (CTRL) | | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2165, 2400, 2415, 2420, 2425, 3000, 3100, 8000, 8020, 8040, 8062 | - | - | - |
| TOTAL QUALIFICATIONS STAGE (QUAL) | | | | | | | | | | | 5 | 2.5 | 0 | 0 | 1 | 2 | | | | |
| DESIGNATIONS (DESG) | | | | | | | | | | | | | | | | | | | | |
| DESG | 6300 | Designation as a DASC OIC | | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2250, 2255, 2260, 3300, 6245 OR 2200, 2205, 2210, 2215, 2220, 2225, 3350, 6250 AND 2045, 2050, 2055, 2060, 2065, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2300, 2305, 2310, 2315, 2320, 2325, 2350, | - | - | 6300 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2355, 2365, 2370, 2375, 2400, 2405, 2410, 2415, 2420, 2425, 2455, 2460, 2465, 2470, 2475, 2800, 2803, 2808, 2809, 2811, 2812, 2813, 2814, 2817, 2818, 2819, 2820, 2822, 2823, 2900, 2901, 2902, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3100, 3105, 3110, 3115, 3120, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 3400, 6020, 6023, 6230, 6235, 6240, 6255, 8000, 8020, 8040, 8060, 8080 | | | |
| DESG | 6320 | Designation as a Basic Instructor (BI) | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | 5000, 5010, 5020 | - | - | 6320 |
| DESG | 6321 | Designation as a Senior Instructor (SI) | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | 5000, 5010, 5020, 5100, 5110, 5120, 5130 | - | - | 6321 |
| DESG | 6322 | Designation as a Weapons and Tactics Instructor (WTI) | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | 6000 | - | - | 6322 |
| TOTAL DESIGNATIONS STAGE (DESG) | | | | | | | | | | 4 | 3.5 | 0 | 0 | 0 | 0 | | | | |
| TRACKING CODES FOR SCHOOLS (SCHL) | | | | | | | | | | | | | | | | | | | |
| SCHL | 6000 | Weapons and Tactics Instructor (WTI) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6000 |
| SCHL | 6001 | Senior Watch Officer's Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6002 | Air Command and Control Officer's Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6003 | ACE Battlestaff Officer Course (ABOC) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6010 | Airspace Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6011 | Personnel Recovery Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |

| STAGE | CODE | TITLE (EVENT) | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | DASC 7208 T&R SYLLABUS MATRIX | | | | | | | | | |
| SCHL | 6012 | Plans/Ops Technician Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6015 | Joint Air Operation Center Command and Control Course (JAOC2C) Airspace Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6016 | Joint Air Operations Senior Staff Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6020 | Link 16 Basics Course (JT-100) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6021 | Intro to Multi TDL Network (JT-101) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6020 |
| SCHL | 6022 | Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6021 |
| SCHL | 6023 | Link 16 Joint Interoperability Course (US-109) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6024 | Multi TDL Planner Course (JT-201) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6023 |
| SCHL | 6025 | Link 16 Unit Manager (LUM) Course (JT-220) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6025 |
| SCHL | 6026 | Joint Interface Control Officer (JICO) (JT-301) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6026 |
| SCHL | 6027 | Advanced JICC Operator Course (JT-310) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6067 | Military Airspace Management Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6082 | Joint Firepower Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| TOTAL SCHOOL CODES STAGE (SCHL) | | | | | | | | | | 19 | 0 | 0 | 0 | 0 | 0 | | | | |
| TRACKING CODES FOR OPERATIONS (OPS) | | | | | | | | | | | | | | | | | | | |
| OPS | 6455 | Track participation MEU deployments | B | - | - | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6455 |
| OPS | 6465 | Track completion of Range Safety Officers (RSO) courses | B | - | - | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6465 |
| TOTAL OPERATIONS CODES STAGE (OPS) | | | | | | | | | | 2 | 1 | 0 | 0 | 0 | 0 | | | | |
| TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS PHASE (RQCD) | | | | | | | | | | 30 | 7 | 0 | 0 | 1 | 2 | | | | |

Enclosure (1)

7.15  <u>ADDITIONAL MATRIX (ORDNANCE/RANGES)</u>  None.

7.16  <u>ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS</u>  None.

7.17  <u>TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM)</u>  None.

7.18  <u>AVIATION TRAINING FORMS (ATF)</u>.  A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3
website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx

CHAPTER 8

AIR SUPPORT OPERATIONS OPERATOR (ASOO) MOS 7242
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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CHAPTER 8

AIR SUPPORT OPERATIONS OPERATOR (ASOO) MOS 7242
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

8.0  <u>ASOO INDIVIDUAL TRAINING AND READINESS REQUIREMENTS</u>.  This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills.  The goal of this chapter is to develop individual and unit warfighting capabilities.

8.1  <u>ASOO TRAINING PROGRESSION MODEL</u>.  This model represents the recommended training progression for the average 7242 crew member.  Units should use the model as a point of departure to generate individual training plans.
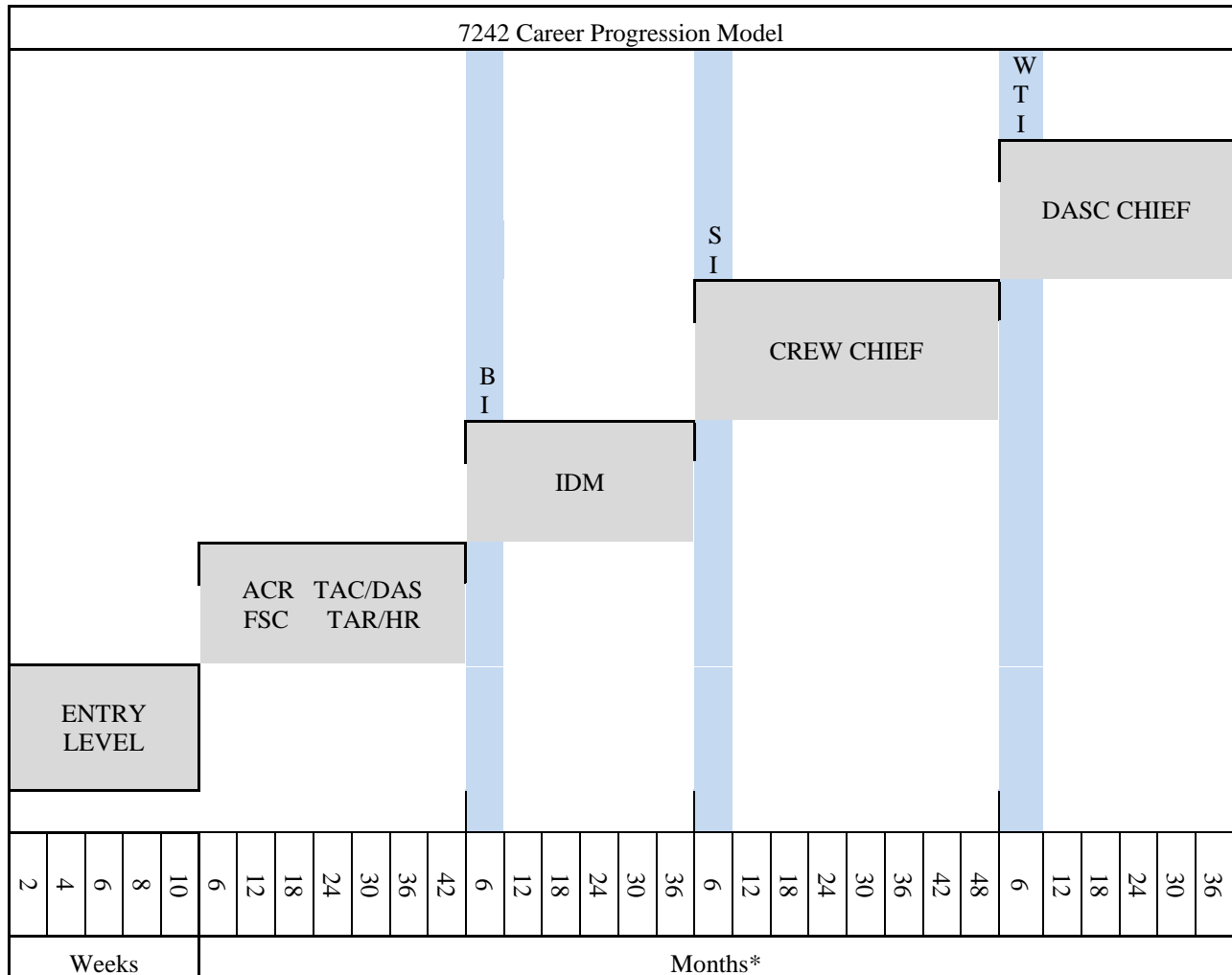


* Months indicated are training months, not calendar months.

8.2  <u>7242 PROGRAMS OF INSTRUCTION</u>

8.2.1  <u>BASIC POI</u>

| DASC 7242 BASIC POI | | |
|---|---|---|
| **WEEKS[1]** | **PHASE OF INSTRUCTION** | **UNIT RESPONSIBLE** |
| 1-10 | CORE SKILL INTRODUCTION TRAINING | MCCES |
| 11-34 | CORE SKILL TRAINING | TACTICAL SQUADRON |
| 35-104 | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| 105-208 | CORE PLUS | TACTICAL SQUADRON |

8.2.2 <u>REFRESHER POI</u>

| DASC 7242 REFRESHER POI | | |
|---|---|---|
| **WEEKS[1]** | **PHASE OF INSTRUCTION** | **UNIT RESPONSIBLE** |
| VARIES | CORE SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | MISSION SKILL TRAINING | TACTICAL SQUADRON |
| VARIES | CORE PLUS | TACTICAL SQUADRON |

NOTE 1:  TRAINING DURATIONS VARIES BY POSITION BEING TRAINED.
SEE PROGRESSION MODEL FOR NOTIONAL TRAINING TIMES.

8.3  <u>INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS</u>

8.3.1  Management of individual CSP/MSP/CPMP serves as the foundation for developing proficiency requirements in DRRS.

8.3.2  Crew position proficiency, or core skill, is a "Yes/No" status assigned to a Marine based on their CMMR currency and proficiency.  When an individual attains and maintains crew position proficiency, the Marine is eligible to count towards Unit CMMR.

8.3.3  Proficiency is attained by individual Core/Mission/Core Plus skill where the training events for each skill are determined by POI assignment.

8.3.4  Once proficiency has been attained by Core/Mission/Core Plus Skill (by any POI assignment) then the individual maintains proficiency by executing those events noted in the maintain table and in the "Maintain POI" column of the T&R syllabus matrix.  An individual maintains proficiency by individual Core/Mission/Core Plus Skill.

**\*Note\***
Individuals may be attaining proficiency in
some Core/Mission/Core Plus Skills while
maintinaing proficiency in other
Core/Mission/Core Plus Skills.

8.3.5  Once proficiency has been attained, should one lose proficiency in an event in the "Maintain POI" column, proficiency can be re-attained by demonstrating proficiency in the delinquent event.  Should an individual lose proficiency in all events in the "Maintain POI" column by Core/Mission/Core Plus Skill, the individual will be assigned to the Refresher POI for that skill.  To regain proficiency for that Core/Mission/Core Plus Skill the individual must demonstrate proficiency in all R-coded events for that skill.

**\*Note\***
See NAVMC 3500.14D, Chapter 2 of the
Aviation Program Manual for amplifying
information on POI updating.

| DASC MOS 7242 | | | | | |
|---|---|---|---|---|---|
| **ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI** | | | | | |
| **ATTAIN PROFICIENCY** | | | | **MAINTAIN PROFICIENCY** | |
| **BASIC POI** | | **REFRESHER POI** | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| **CORE SKILL (2000 Phase)** | | | | | |
| ACAD | 2045 | ACAD | | ACAD | |
|  | 2050 |  |  |  |  |
|  | 2055 |  |  |  |  |
|  | 2060 |  |  |  |  |
|  | 2065 |  |  |  |  |
| COMM | S2100 | COMM | | COMM | |
|  | 2105 |  |  |  |  |
|  | 2110 |  |  |  |  |
|  | 2115 |  |  |  |  |
|  | 2120 |  |  |  |  |
|  | 2125 |  |  |  |  |
|  | 2130 |  |  |  |  |
| EQUIP | 2150 | EQUIP | | EQUIP | |
|  | 2155 |  |  |  |  |
|  | 2160 |  |  |  |  |
|  | 2165 |  |  |  |  |
|  | 2170 |  |  |  |  |
| IDM | 2200 | IDM | | IDM | |
| ASO | 2205 | ASO | | ASO | |
|  | 2400 |  |  |  |  |
|  | S2405 |  |  |  |  |
| ACR | 2210 | ACR | | ACR | |
| TRHR | S2250 | TRHR | | TRHR | |
| TCDS | S2300 | TCDS | | TCDS | |
| FSC | S2350 | FSC | | FSC | |
|  | S2355 |  |  |  |  |
| CC | 2455 | CC | | CC | |
|  | 2460 |  |  |  |  |
|  | 2465 |  |  |  |  |
|  | S2475 |  |  |  |  |

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|---|---|---|---|---|---|
|  | 2480 |  |  |  |  |
| DC | 2500 | DC |  | DC |  |
|  | 2505 |  |  |  |  |
|  | 2510 |  |  |  |  |
|  | 2515 |  |  |  |  |
|  | 2520 |  |  |  |  |
|  | 2525 |  |  |  |  |
|  | 2530 |  |  |  |  |
| FAM | 2555 | FAM |  | FAM |  |
|  | 2565 |  |  |  |  |
|  | 2570 |  |  |  |  |
|  | 2575 |  |  |  |  |
| TDL | 2800 | TDL |  | TDL |  |
|  | 2803 |  |  |  |  |
|  | 2808 |  |  |  |  |
|  | 2809 |  |  |  |  |
|  | 2810 |  |  |  |  |
|  | 2811 |  |  |  |  |
|  | 2812 |  |  |  |  |
|  | 2814 |  |  |  |  |
|  | 2818 |  |  |  |  |
|  | 2819 |  |  |  |  |
|  | 2820 |  |  |  |  |
|  | 2821 |  |  |  |  |
|  | 2850 |  |  |  |  |
|  | 2851 |  |  |  |  |
| C2SYS | 2900 | C2SYS |  | C2SYS |  |
|  | 2901 |  |  |  |  |
|  | 2902 |  |  |  |  |
|  | 2905 |  |  |  |  |
|  | 2910 |  |  |  |  |
|  | 2911 |  |  |  |  |
|  | 2921 |  |  |  |  |
|  | 2940 |  |  |  |  |
| **MISSION SKILL (3000 Phase)** | | | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| IDM | 3000 | IDM |  | IDM |  |
|  | 3005 |  |  |  |  |
|  | 3010R |  | 3010R |  | 3010R |
|  | 3015 |  |  |  |  |
|  | 3020 |  |  |  |  |

| STAGE | CODE | STAGE | CODE | STAGE | CODE |
|-------|------|-------|------|-------|------|
| TRHR | 3050 | TRHR | | TRHR | |
| | 3055 | | | | |
| | 3060R | | 3060R | | 3060R |
| | 3065 | | | | |
| | 3070 | | | | |
| TCDS | 3100 | TCDS | | TCDS | |
| | 3105 | | | | |
| | 3110R | | 3110R | | 3110R |
| | 3115 | | | | |
| | 3120 | | | | |
| FSC | 3150 | FSC | | FSC | |
| | 3155 | | | | |
| | 3160R | | 3160R | | 3160R |
| | 3165 | | | | |
| | 3170 | | | | |
| CC | 3200 | CC | | CC | |
| | 3205 | | | | |
| | 3210R | | 3210R | | 3210R |
| | 3215 | | | | |
| | 3220 | | | | |
| DC | 3250 | DC | | DC | |
| ACR | 3270 | ACR | | ACR | |
| | 3275 | | | | |
| | 3280R | | 3280R | | 3280R |
| | 3285 | | | | |
| | 3290 | | | | |
| **CORE PLUS (4000 Phase)** | | | | | |
| **STAGE** | **CODE** | **STAGE** | **CODE** | **STAGE** | **CODE** |
| ASO | S4100 | ASO | | ASO | |
| CTRL | S4200 | CTRL | | CTRL | |
| | 4205 | | | | |
| | 4210 | | | | |
| | 4220 | | | | |
| | S4225 | | | | |
| | S4230 | | | | |
| HD | S4300 | HD | | HD | |
| | S4305 | | | | |
| | S4310R | | S4310R | | S4310R |
| | S4315 | | | | |
| | S4320 | | | | |
| TAD | S4350 | TAD | | TAD | |

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| | S4355 | | | | |
|---|---|---|---|---|---|
| | S4360R | | S4360R | | S4360R |
| | S4365 | | | | |
| | S4370 | | | | |
| FAM | 4400 | FAM | | FAM | |
| | 4410 | | | | |
| | 4415 | | | | |
| | 4420 | | | | |
| TDL | 4813 | TDL | | TDL | |
| | 4815 | | | | |
| | 4816 | | | | |
| | 4817 | | | | |
| | 4823 | | | | |
| | 4830 | | | | |
| | 4832 | | | | |
| | 4836 | | | | |
| | 4838 | | | | |
| | 4840 | | | | |
| | 4842 | | | | |
| C2SYS | 4913 | C2SYS | | C2SYS | |
| | 4917 | | | | |
| | 4920 | | | | |
| | 4922 | | | | |
| "S" PREFIX AND BLUE FONT = SIMULATOR EVENT | | | | | |

8.4  REQUIREMENT, CERTIFICATION, QUALIFICATION AND DESIGNATION TABLES.  The tables below delineate T&R events required to be completed to attain proficiency for select certifications, qualifications, and designations.  Certification, qualification and designation letters signed by the commanding officer shall be placed in training Performance Records and NATOPS.  See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

8.4.1  Instructor Designations

| DASC 7242 INSTRUCTOR DESIGNATIONS (5000 Phase) | |
|---|---|
| INSTRUCTOR DESIGNATION | EVENTS |
| BASIC INSTRUCTOR (BI) | 5000, 5010, 5020 |
| SENIOR INSTRUCTOR (SI) | 5100, 5110, 5120, 5130, M-SHARP FORMAL TRAINING |
| WEAPONS AND TACTICS INSTRUCTOR (WTI) | SCHL 6000 |

8.4.2  REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS

Enclosure (1)                                     8-8

| DASC 7242 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase) | |
|---|---|
| **RCQD** | **EVENTS** |
| Qualify as Air Control Recorder (ACR ) (QUAL-6200) | 2250 **OR** 2300 **OR** 2350 <br><br>**AND**<br><br>2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2821, 2900, 2901, 2910, 2911, 2940, 3270, 3275, 3280, 3285, 3290, 8000, 6200 |
| Qualify as a TAR/HR Operator (QUAL-6205) | 2045, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 2405, 2900, 2901, 2902, 2911, 2940, 3050, 3055, 3060, 3065, 3070, 8000, 6205 |
| Qualify as a Tactical Air Command (TAC)/ Direct Air Support (DAS) Net Operator (QUAL-6210) | 2045, 2055, 2060, 2100, 2155, 2170, 2205, 2210, 2300, 2400, 2405, 2555, 2900, 2901, 2902, 2905, 2910, 2911, 2940, 3100, 3105, 3110, 3115, 3120, 8000, 6120 |
| Qualify as Fire Support Coordination (FSC) Net Operator (QUAL-6215) | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2405, 2565, 2940, 3150, 3155, 3160, 3165, 3170, 8000, 8062, 6215 |
| Qualify as an Information Display Manager (IDM) (QUAL-6220) | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8062, 8063, 6220 |
| Qualify as a DASC Crew Chief (QUAL- 6225) | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2809, 2810, 2811, 2812, 2814, 2818, 2819, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8060, 8080, 6225 |
| Qualification as a Helicopter Director (HD) (QUAL-6230) | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4300, 4305, 4310, 4315, 4320, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063, 6230 |
| Qualification as a Tactical Air Director (TAD) (QUAL-6235) | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4350, 4355, 4360, 4365, 4370, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063, 6235 |

| | |
|---|---|
| Designation as a DASC Chief (DCHF) (DESG-6300) | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2500, 2505, 2510, 2515, 2520, 2525, 2530, 2555, 2565, 2800, 2803, 2808, 2809, 2810, 2811, 2812, 2814, 2818, 2819, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3250, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6220, 6220, 6225, 8000, 8020, 8040, 8060, 8080, 6300 |
| Basic Instructor (DESG-6320) | 5000, 5010, 5020, 6320 |
| Senior Instructor (DESG-6321) | 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6321, M-SHARP FORMAL TRAINING |
| Designation as a Weapons and Tactics Instructor (WTI) (DESG-6322) | 6000, 6322 |

8.5  SYLLABUS NOTES.

8.5.1  Environmental Conditions Matrix.

| Environmental Conditions | |
|---|---|
| **Code** | **Meaning** |
| D | Shall be conducted during hours of daylight: (by exception - there is no use of a symbol) |
| N | Shall be conducted during hours of darkness, may be aided or unaided |
| N* | Shall be conducted during hours of darkness must be unaided |
| (N*) | May be conducted during hours of darkness – If conducted during hours of darkness must be unaided |
| (N) | May be conducted during darkness – If conducted during hours of darkness; may be aided or unaided |
| NS | Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices |
| (NS) | May be conducted during darkness – If conducted during hours of darkness; must be with Night Vision Devices |
| Note – If the event is to be conducted in the simulator, the Instructor shall ensure the proper environmental conditions for the event. | |

8.5.2  Device Matrix.

| DEVICE | |
|---|---|
| **Symbol** | **Meaning** |
| **L** | Event shall be conducted live (conducted in the field/garrison, during an exercise, etc.).  Requires live (non-simulated) execution of the event. |
| **L/S** | Event performed live preferred/simulator optional. |

| S/L | Event performed in simulator preferred/live optional. |
|---|---|
| G | Ground/academic training. May include Distance Learning, CBT, lectures, or self-paced. |
| CBT | Computer Based Training |
| LAB | Laboratory |
| LEC | Lecture |
| CP | Command Post |
| TEN | Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station. |
| TEN+ | Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement. |
| Note – If the event is to be conducted in the simulator, the Instructor shall set the desired environmental conditions for the event. | |

8.5.3 Program of Instruction Matrix.

| PROGRAM OF INSTRUCTION MATRIX | | |
|---|---|---|
| **Program of Instruction (POI)** | **Symbol** | **Aviation Ground** |
| Basic | **B** | Initial MOS Training |
| Refresher | **R** | Return to community from non (MOS/Skill) associated tour |
| Maintain | **M** | All individuals who have attained CSP/MSP/CPP by initial POI assignment are re-assigned to the M POI to maintain proficiency. |

8.5.4 Event Terms.

| EVENT TERMS | |
|---|---|
| **TERM** | **DESCRIPTION** |
| Discuss | An explanation of systems, procedures, or tactics during the brief, exercises, or debrief. Student is responsible for knowledge of procedures. |
| Demonstrate | The description and performance of a particular event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required event. |
| Introduce | The instructor may demonstrate a procedure or event to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures. |
| Practice | The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance. |
| Review | Demonstrated proficiency of an event by the student. |

| Evaluate | Any event designed to evaluate team/crew standardization that does not fit another category. |
|---|---|
| E-Coded | This term means an event evaluation form is required each time the event is logged. Requires evaluation by a certified standardization instructor (NATOPS I, WTI, INST Evaluator etc.) |

8.6 <u>CORE SKILL INTRODUCTION PHASE (1000)</u>

8.6.1 <u>Purpose</u>. To provide entry-level instruction to develop the basic skills necessary for an enlisted Marine to have a general working knowledge on the characteristics, capabilities, limitations, and operations of DASC related systems and equipment . Upon completion of the Air Support Operations Operator (ASOO) Course, the Marine is designated MOS 7242.

8.6.2 <u>General</u>

8.6.2.1 <u>Admin Notes</u>. ASOO Course (CID M0967L1) located at Marine Corps Communication-Electronics School (MCCES) in 29 Palms, CA.

8.6.2.2 <u>Prerequisites</u>. Meet the 7242 requirements delineated in MCO 1200.17 (Military Occupational Specialties (MOS) Marine Corps Manual).

8.6.2.3 <u>Stages</u>. The following stages are included in the Core Skill Introduction Phase.

| CORE SKILL INTRODUCTION PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| AIR SCHOOL (AIRS) | 8.6.3 | 8-12 |

8.6.3 <u>AIR SCHOOL (AIRS)</u>

8.6.3.1 <u>Purpose</u>. To teach the Marine in the required skills to perform as a basic Air Support Operations Operator, MOS 7242.

8.6.3.2 <u>General</u>.

<u>Admin Notes</u>. All exams will be taken without the aid of references and require a minimum score of 80% to pass unless specifically changed in an event.

<u>Prerequisites</u>. None.

AIRS-1100       *       B                                             G

<u>Goal</u>. Identify components of MAGTF Operations.

<u>Requirement</u>. Identify the following:

1. MAGTF Composition.
2. Composition and mission of the Marine Division.
3. The types of Expeditionary Operations and how/when the DASC phases control ashore.
4. The purpose of the FSCC.
5. How supporting Arms are used within the MAGTF, specific to direct air support operations.

<u>Performance Standard</u>. Pass an exam.

<u>Prerequisite</u>. None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 1-02, Joint Dictionary of Definition and Terms
2.  JP 3-09, Joint Fire Support
3.  MCDP 1-0, Operations
4.  MCDP 3, Expeditionary Operations
5.  MCWP 3-25, Control of Aircraft and Missiles
6.  MCWP 3-25.5, DASC Handbook
7.  MCWP 3-43.1, Radio Operations
8.  MCWP 3-16, Fire Support Coordination in the Ground Combat Element
9.  MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1102            *       B                                           G

Goal.  Identify how the Marine Aircraft Wing supports the MAGTF.

Requirement.  Identify the following:

1.  Concepts for aviation support to the MAGTF.
2.  Squadron nomenclature and missions assigned.
3.  Marine Wing composition.
4.  Manned and Unmanned Aircraft capabilities and limitations.
5.  Aviation Ordnance.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 1-02, Joint Dictionary of Definition and Terms
2.  MCWP 3.2, Aviation Operations
3.  MCWP 3-25.5, DASC Handbook
4.  MCRP 3-16.6A, TTP for Joint Application of Firepower
5.  MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1104            *       B                                           G

Goal.  Identify Offensive Air Support (OAS).

Requirement.  Identify the following:

1.  Purpose of OAS.
2.  Requirements for Deep Air Support (DAS).
3.  Requirements for Close Air Support (CAS).
4.  Differences between immediate and pre-planned OAS.

5. Marine Corps airframes that have the primary mission of OAS.
6. The unit(s)/agency(ies) within the MACG/MACCS that coordinate(s) OAS.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. JP 3-09.3, Close Air Support
3. MCWP 3-23, Offensive Air Support
4. MCWP 3-23.2, Deep Air Support
5. MCWP 3-25.5, DASC Handbook
6. MCRP 3-16.6A, TTP for Joint Application of Firepower
7. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1106                    *            B                                                    G

Goal.  Identify Assault Support Doctrine.

Requirement.  Identify the following:

1. Purpose of Assault Support.
2. Sub-categories of Assault Support.
3. Differences between immediate and pre-planned Assault Support.
4. Marine Corps airframes that have the primary mission of Assault Support.
5. The unit(s)/agency(ies) within the MACG/MACCS that coordinate(s) Assault Support.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. JP 3-50, Personnel Recovery
3. JP 3-52, Joint Airspace Control
4. MCWP 3-11.4, Helicopterborne Operations
5. MCWP 3.2, Aviation Operations
6. MCWP 3-24, Assault Support
7. MCWP 3-25.5, DASC Handbook
8. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1108                    *            B                                                    G

Goal.  Identify Aerial Reconnaissance.

Requirement.  Identify the following:

1. Purpose of aerial reconnaissance.
2. Two types of aerial reconnaissance.
3. Which aviation platforms can conduct aerial reconnaissance.
4. The unit and system within the MACG that has the primary mission of aerial reconnaissance.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. MCWP 3-25.5, DASC Handbook
3. MCWP 3-26, Air Reconnaissance
4. MCWP 3-42.1, Unmanned Aerial Vehicle Operations
5. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1110                    *           B                                                             G

Goal.  Identify Anti-Air Warfare (AAW).

Requirement.  Without the aid of reference, identify the following:

1. The definition of AAW.
2. The two types of AAW.
3. Which units within the MACG have the primary mission of AAW.
4. The Marine Corps' air defense systems responsible for conducting AAW operations.
5. The basic construct of an Integrated Air Defense System (IADS).
6. Define a Tactical Data Link (TDL).
7. Identify how TDLs support the IAMD of an air defense sector.
8. Identify voice networks used during IAMD operations.
9. Define Air Defense Warning Conditions.
10. Define Weapons Control Statuses.
11. Identify the purpose of a Bulls Eye.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. JP 6-0, Communications Systems

    2.  MCWP 3-22, Anti-Air Warfare
    3.  MCWP 3-25, Control of Aircraft and Missiles
    4.  MCWP 3-25.3, MACCS Handbook
    5.  MCWP 3-25.5, DASC Handbook
    6.  MCWP 3-40.1, MAGTF C2
    7.  MCWP 3-40.2, Information management
    8.  MCWP 3-40.3, MAGTF Communication System
    9.  MCRP 3-25E, Integrated Air Defense System
    10.  CJCSM 6120.01, Joint Multi TDL Operating Procedures

AIRS-1112                 \*             B                                             G

    Goal.  Identify Electronic Warfare (EW).

    Requirement.  Without the aid of reference, identify the following:

    1.  Identify the definition and purpose for EW.
    2.  Identify the sub-sets of EW.
    3.  Identify which units within the Marine Corps conduct EW.
    4.  Identify the procedures used within the DASC to report enemy Electronic Attack operations.

    Performance Standard.  Pass an exam.

    Prerequisite.  None.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
    1. JP 1-02, Joint Dictionary of Definition and Terms
    2. JP 3-13.1, Electronic Warfare
    3. MCWP 3-22.2, Suppression of Enemy Air Defenses
    4. MCWP 3-25.5, DASC Handbook
    5. MCWP 3-40.5, Electronic Warfare
    6. MCRP 3-22.2A, TTP for Joint-SEAD
    7. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

AIRS-1114                 \*             B                                             G

    Goal.  Identify Control of Aircraft and Missiles.

    Requirement.  Without the aid of reference, identify the following:

    1.  Marine Corps' philosophy for Command and Control.
    2.  Purpose for Control of Aircraft and Missiles.
    3.  Structure of the MACCS and each agency's purpose.
    4.  Which agencies of the MACCS utilize positive control.
    5.  Which agencies of the MACCS utilize procedural control.
    6.  Agencies responsible for command and control of expeditionary operations.
    7.  Definitions of Air Direction and Air Control.
    8.  Become familiar with the Theater Air-Ground System (TAGS).
    9.  Become familiar with the doctrine for command and control of expeditionary operations.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. JP 1-02, Joint Dictionary of Definition and Terms
2. JP 3-02, Amphibious Operations
3. JP 3-30, Command and Control of Joint Air Operations
4. JP 3-52, Joint Doctrine for Airspace Control in the Combat Zone
5. MCDP 3, Expeditionary Operations
6. MCWP 3-25, Control of Aircraft and Missiles
7. MCWP 3-25.5, DASC Handbook
8. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms
9. MCRP 3-25F, TTP for Theater Air-Ground System

AIRS-1116                    *            B                                                    G

Goal. Identify threats to the MAGTF.

Requirement. Without the aid of reference, identify the following:

1. Surface-to-air threats.
   a. Categories of AAA.
   b. Categories of SAMs (MANPADS, Optical and RF Guided).
2. Air-to-ground threats.
   a. F/W.
   b. R/W.
3. Surface-to-surface threats.
   a. Armor.
   b. APC.
   c. Artillery.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. AFTTP 3-1, Threat Guide

AIRS-1118                    *            B                                                    G

Goal. React to threats affecting DASC Operations.

Requirement. React to the following:

1. Surface-to-air threats.
2. Air-to-ground threats.
3. Surface-to-surface threats.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. AFTTP 3-1, Threat Guide

AIRS-1120          *      B                                    G

Goal. Extract critical information from operations documents for the DASC.

Requirement. With the aid of references, perform the following:

1. Extract direct air support information from an Air Tasking Order (ATO).
2. Extract direct air support information from an Airspace Control Order (ACO).
3. Extract Multi-TDL network information from an OPTASK LINK.
4. Extract information from ANNEX K of an Operations Order.
5. Extract direct air support communication information from the ACEOI.
6. Identify the communication path established between agencies.

Performance Standard. With the aid of references, pass a practical application exam without error.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. JP 6-0, Communications Systems
2. MCWP 3-25, Control of Aircraft and Missiles
3. MCWP 3-25.3, MACCS Handbook
4. MCWP 3-25.5, DASC Handbook
5. MCWP 3-40.1, MAGTF C2
6. MCWP 3-40.2, Information Management
7. MCWP 3-40.3, MAGTF Communication System
8. Guide to the USMTF User Formats - OPERATIONAL TASKING LINKS
9. DISA USMTF Baseline, https://www.us.army.mil/suite/community/15897960
10. CJCSM 6120.01, Joint Multi TDL Operating Procedures
11. MIL-STD-6040, USMTF Interface Standard

AIRS-1122          *      B                                    G

Goal.  State the proper procedures for handling and storage of classified materials.

Requirement.  Without the aid of reference, perform the following:

1. State the different levels of classification.
2. State the marking requirements for each level of classification.
3. State the two-person integrity (TPI) rule.
4. State storage procedures for each level of classification.
5. Identify transportation requirements for classified material.
6. State the sections of the SF-702.
7. Identify the approved security containers utilized for storage.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. SECNAVINST 5510, Physical Security
2. MCO P5510.1A, Physical Security
3. EKMS-1

AIRS-1124          *        B                                  G

Goal.  Identify Air Support Communications Equipment.

Requirement.  Without the aid of reference, identify each of the following:

1. DASC Single Channel Radio Equipment, to include:
   a. Receiver/Transmitter Nomenclatures.
   b. Frequency Spectrum(s).
   c. Cryptographic Security Capabilities.
   d. Transmission Security Capabilities.
   e. Data Capabilities.
   f. Radio Set Nomenclatures.
   g. Communication Range.
   h. Power Requirements.
   i. Antenna Configurations.
2. Common Aviation Command and Control System (CAC2S) Equipment, to include:
   a. The Process and Display System (PDS).
      (1) Components of an Operation Facility (OpFac).
      (2) OpFac emplacement options.
      (3) Components of the Warfighter Console.
   b. The Communication System (CS).
      (1) The radio components within a CS.
      (2) The antenna components within a CS.
      (3) Identify the number of external radio sets available per CS.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  TM 11927A-OR, AN/PRC-117G
2.  TM 10597A-OR/4, AN/PRC-117F
3.  SL-3-10597A, AN/PRC-117F
4.  TM 10822A-OR, AN/PRC-150
5.  SL-3-10822A, AN/PRC-150
6.  SL-3-11305A, AN/TRC-209A
7.  SL-3-11216A, AN/MRC-148
8.  TM 11255A-OR/1, AN/VRC-103
9.  TM 10746B-OI/23, AN/PRC-148
10.  TM 11496A-OI/3, AN/PRC-152
11.  SL-3-11496A, AN/VRC-110
12.  SL-3-09730B, AN/MRC-145
13.  TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1126                    *            B                                                        G

Goal.  Identify the purpose of Common Aviation Command and Control System (CAC2S) components.

Requirement.  Without the aid of reference, identify the purpose of each of the following:

1.  PDS.
2.  Data Link equipment.
3.  Command Tactical Picture equipment.
4.  Multi-Source Correlator Tracker (MSCT).
5.  CS.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  TM 12041A/12050A-OD2, CAC2S User Manual
2.  MSCT Display User's Manual

AIRS-1128                    *            B                                                        G

Goal.  Conduct communications utilizing CAC2S.

Requirement.  With the aid of reference, perform the following:

1.  Prepare a communication device for operation.
2.  Conduct inter-system communication.

3. Configure a radio to receive.
4. Configure a radio transmit.
5. Operate a radio network.

Performance Standard. With the aid of reference, pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-40.3, MAGTF Communication System
2. CJCSM 3320.02B, Joint Spectrum Interference Resolution (JSIR) Procedures
3. KTCL Handling and Operating Instructions
4. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1130         *        B                                                   G

Goal. Conduct Information Security during DASC operations.

Requirement. With the aid of reference, perform the following:

1. Define information security.
2. Identify the components of information security.
3. Define communications security (COMSEC).
4. Identify the purpose of cryptographic security (CRYPTOSEC).
5. Identify the purpose of cryptographic keys.
6. Identify the purpose of code words.
7. Identify the purpose of user encryption keys.
8. Conduct message encryption.
9. Conduct message decryption.
10. Identify source documents for code words.
11. Identify the purpose of transmission security (TRANSSEC).
12. Describe the theory of frequency hopping operations.
13. Identify the purpose of radio discipline.
14. Identify the purpose of Radio/Telephone procedures.
15. Identify the purpose of brevity code words.
16. Describe the meaning of a given direct air support brevity code word.
17. Describe the appropriate response to enemy jamming.
18. Describe the method to report enemy jamming.
19. Identify the purpose of user authentication systems.
20. Conduct user authentication.
21. Conduct user time authentication.
22. Identify the purpose for disbursing communications equipment.
23. Identify the security concerns for wire transmissions.
24. Describe emission security techniques.
25. Define physical security.
26. Describe physical security measures.

Performance Standard. With the aid of reference, pass an exam.

Prerequisite. None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-40.3, MAGTF Communication System
2.  CJCSM 3320.02B, Joint Spectrum Interference Resolution (JSIR) Procedures
3.  KTCL Handling and Operating Instructions
4.  TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1132    *    B                   G

Goal.  Plot direct air support information.

Requirement.  Without the aid of reference, perform the following:

1.  Locate a MGRS coordinate.
2.  Plot a MGRS coordinate.
3.  Locate a Latitude/Longitude coordinate.
4.  Plot a Latitude/Longitude coordinate.
5.  Plot friendly/enemy units using appropriate symbols.
6.  Plot FSCM/ACMs using appropriate symbols.
7.  Plot DASC specific symbols (JTAR/ASR/etc.).
8.  Plot direct air support information using J-Series track options.
9.  Maintain TAD/HD aircraft mission status boards.
10.  Locate tracks using Global Area Reference System (GARS).

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 2-03, Geospatial Intelligence Support to Joint Operations
2.  MCWP 3-25.5, Control of Aircraft and Missiles
3.  MCRP 5-2A, (Operational Terms and Graphics)
4.  MIL-STD-6016, TDL 16 Interface Standard
5.  TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1134    *    B                   G

Goal.  Receive and process immediate air support requests.

Requirement.  Without the aid of reference, conduct the following:

1.  Receive and process JTARs.
2.  Receive and process ASRs.
3.  Receive and process CASEVACs.

4. Exchange direct air support information with requesting unit.
5. Identify the components of the request forms.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCWP 3-25.5, DASC Handbook

AIRS-1136          *       B                                           G

Goal.  Operate Tactical Display Framework (TDF).

Requirement.  With the aid of reference, perform the following:

1. Check system connectivity.
2. Configure the software for operation.
3. Load an Air Tasking Order.
4. Load an Airspace Control Order.
5. Load map data.
6. Configure track tags.
7. Configure track details.
8. Configure a track list.
9. Apply local display filters.
10. Import Common Tactical Picture Overlays.
11. Utilize system overlays.
12. Hook tracks.
13. Utilize range-bearing lines.
14. Create a track.
15. Create a direct air support request.

Performance Standard.  With the aid of reference, pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. TM 12041A/12050A-OD2, CAC2S User Manual
2. MSCT Display User's Manual

AIRS-1138          *       B                                           G

Goal.  Operate Joint Tactical Common Operational Picture Workstation (JTCW) Client.

Requirement. With the aid of reference, perform the following:

1. Start JTCW client.
2. Configure the client for operation.
3. Configure a Client to Gateway connection.
4. Load injector mangers required for DASC operations.
5. Load map data.
6. Load an Airspace Control Order.
7. Create overlays.
8. Manage overlays.
9. Share overlays.
10. Apply local display filters.
11. Utilize range-bearing lines.
12. Configure track details.
13. Create a track.

Performance Standard. With the aid of reference, pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. Software User's Manual (SUM) for Command and Control PC (JTCW)
2. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1140      *      B      G

Goal. Exchange information with the TACC.

Requirement. While conducting DASC operations, operate as a TAC/DAS net operator:

1. Communicate ATO and ACO information.
2. Exchange direct air support information with the TACC.
3. Utilize appropriate RT procedures.
4. Exchange threat information.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

AIRS-1142      *      B      G

Goal. Exchange information with the FSCC.

Requirement. While conducting DASC operations, operate as FSC Net Operator:

1. Exchange direct air support information with an FSCC.
2. Exchange information regarding fire support.
3. Utilize appropriate RT procedures.
4. Exchange information regarding operational terms and graphics.

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

AIRS-1144                *            B                                                    G

Goal. Familiarize the operator on Theater Battle Management Core System (TBMCS) for direct air support operations.

Requirement. Utilizing a TBMCS terminal, with the aid of references, perform the following:

1. Login and Subscribe to Alerts.
2. Login to the CAOC Central Webpage (CCWeb).
3. Send/receive email using Iris For Outlook (IFO).
4. Utilizing CCWeb:
   a. Operate Execution Status and Monitoring Tool (ESTAT).
      (1) Open the appropriate Air Battle Plan (ABP).
      (2) Update aircraft mission status
      (3) Access mission Operational Support Pages (Opages)
   b. Operate Web Air Request Processor (WARP).
      (1) Load appropriate ABP.
      (2) Input an immediate Air Support Request.
      (3) Pair aircraft mission data with request.
      (4) Apply BDA to request.
   c. Access the ATO/ACO using the ATO/ACO Tool (AAT).

Performance Standard. Pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCTSSA's Marine Corps Tactical Data Systems Reference Guide

AIRS-1146                   \*             B                                                              G

Goal.  Operate the Effects Management Tool (EMT).

Requirement.  With the aid of reference, perform the following:

1. Set up the EMT.
2. Start the EMT.
3. Configure EMT for operation.
4. Provide Advanced Field Artillery Tactical Data System (AFATDS) units to CAC2S.
5. Provide AFATDS overlays to CAC2S.
6. Provide geometries to AFATDS.
7. View targets.

Performance Standard.  Pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. Software User's Manual (SUM) for Command and Control PC (JTCW)
2. TM 12041A/12050A-OD2, CAC2S User Manual
3. TB 11-7010-349-10, EMT User's Manual
4. TB 11-7025-354-10-4, Air Operations for AFATDS
5. TM 7025-OR/1/2/4, AFATDS

AIRS-1148                   \*             B                                                              G

Goal.  Define elements of information exchange within the MAGTF Communications System.

Requirement.  With the aid of reference, perform the following:

1. Identify the four classes of information.
2. Identify the characteristics of quality information.
3. Define situational awareness.
4. Define a commander's critical information requirement.
5. Define a priority intelligence requirement.
6. Define a friendly force information requirement.
7. Define an essential element of friendly information.
8. Identify the purpose of information flow.

Performance Standard.  With the aid of reference, pass an exam.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCWP 3-40.2, Information Management
2. MCWP 3-40.3, MAGTF Communication Systems

AIRS-1150          *       B                                          G

Goal. Identify the components of the air picture.

Requirement. With the aid of reference, perform the following:

1. Define a track.
2. Identify the purpose of a track number.
3. Identify the definition of the Common Tactical Picture.
4. Describe the purpose of the Multi-TDL Network.
5. Describe the characteristics of Link 11.
6. Describe the characteristics of Link 11B.
7. Describe the characteristics of Link 16.
8. Describe the Joint Range Extension Application Protocols (JREAP).
9. Identify the TDL capabilities of the agencies provided by MACG units.
10. Identify TDL capabilities of USMC air platforms.

Performance Standard. With the aid of reference, pass an exam.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 3115.01, Joint Data Network Operations
2. CJCSM 6120.01, Joint Multi-TDL Operating Procedures
3. MCWP 3-22, Anti Air Warfare
4. MCWP 3-23, Offensive Air Support
5. MIL-STD-6016, TDL 16 Interface Standard
6. MIL-STD-6017, VMF Interface Standard
7. MIL-STD-3011, JREAP Interface Standard
8. MIL-STD-6020, Data Forwarding between TDLs

8.7 CORE SKILL TRAINING (2000)

8.7.1 Purpose. Core Skills are intended to train the individual to utilize the tools and systems required during performance as a DASC crewmember. Core Skills require a set of events to be completed to ensure a level of proficiency is achieved before the trainee proceeds to Mission Skill training.

8.7.2 General

8.7.2.1 Admin Notes. All events' exams will be without the aid of reference(s) and a minimum score of 80% to pass unless specifically changed in an event.

8.7.2.2 Prerequisite. None.

8.7.2.3 Stages. The following stages are included in the Core Skill Phase of training.

| CORE SKILL PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| ACADEMIC (ACAD) | 8.7.3 | 8-28 |
| COMMUNICATIONS (COMM) | 8.7.4 | 8-31 |
| EQUIPMENT (EQUIP) | 8.7.5 | 8-35 |
| INFORMATION DISPLAY MANAGER (IDM) | 8.7.6 | 8-38 |
| AIR SUPPORT OPERATOR (ASO) | 8.7.7 | 8-39 |
| AIR CONTROL RECORDER (ACR) | 8.7.8 | 8-41 |
| TACTICAL AIR REQUEST/HELICOPTER REQUEST (TRHR) | 8.7.9 | 8-42 |
| TACTICAL AIR COMMAND/DIRECT AIR SUPPORT (TCDS) | 8.7.10 | 8-43 |
| FIRE SUPPORT COORDINATION (FSC) | 8.7.11 | 8-44 |
| CREW CHIEF (CC) | 8.7.12 | 8-45 |
| DASC CHIEF (DC) | 8.7.13 | 8-48 |
| FAMILIARIZATION (FAM) | 8.7.14 | 8-53 |
| TACTICAL DATA LINKS (TDL) | 8.7.15 | 8-55 |
| COMMAND AND CONTROL SYSTEMS (C2SYS) | 8.7.16 | 8-66 |

8.7.3 ACADEMICS (ACAD)

8.7.3.1 Purpose.  To review, develop and evaluate knowledge of DASC operations, systems and procedures.

8.7.3.2 General

    Admin Notes.  The academic events in this phase are intended to complement and supplement those in the ACPM.  In addition to the events listed in this phase, all trainees will also complete ACPM-8003 (DASC) and complete a self-paced reading of MCWP 3-25.5, DASC Handbook.

    Prerequisites.  None.

    Crew Requirements.  None.

ACAD-2045    1.0    *    B                                         G

    Goal.  Identify DASC crew positions.

    Requirement.  For each doctrinal crew position within the DASC:

    1. Identify the duties and responsibilities of the position.
    2. Identify and describe the doctrinal net(s) used.
    3. Identify the frequency spectrum of the net.
    4. Identify the agencies/units operating on the net.
    5. Provide examples of information passed/received from those agencies/units.

    Performance Standard.  Pass an exam.

    Instructor.  BI

    Prerequisite.  8003.

    Ordnance.  None.

<u>Range</u>.  None.

<u>External Syllabus Support</u>.  None.

<u>Reference</u>.
1.  MWCP 3-25.5, DASC Handbook
2.  MCWP 3-40.3, Communications

ACAD-2050      1.0      *      B                                                              G

<u>Goal</u>.  Identify the proper handling and storage of classified materials.

<u>Requirement</u>.  Perform the following:

1.  State the different levels of classification.
2.  State the marking requirements for each level of classification.
3.  State the two-person integrity (TPI) rule.
4.  State storage procedures for each level of classification.
5.  Identify transportation requirements for classified material.
6.  State the sections of the SF-702.
7.  Identify the approved security containers utilized for classified materials.

<u>Performance Standard</u>.  Pass an exam.

<u>Instructor</u>.  BI

<u>Prerequisite</u>.  None.

<u>Ordnance</u>.  None.

<u>Range</u>.  None.

<u>External Syllabus Support</u>.  None.

<u>Reference</u>.
1.  SECNAV 5510.36, DoN Information Security Program Instruction
2.  EKMS-1

ACAD-2055      1.0      *      B                                                              G

<u>Goal</u>.  Identify Airspace Coordination Measures (ACMs) / Fire Support Coordination Measures (FSCMs).

<u>Requirement</u>.  Perform the following:

1.  Identify the elements of an airspace coordination means request.
2.  Identify the 8 types of ACMs, describe and provide examples of each.
3.  Given a list of 25 ACMs from the reference, provide the definition and purpose for each.
4.  Identify FSCMs commonly used by the MAGTF.

<u>Performance Standard</u>.  Pass an exam.

<u>Instructor</u>.  BI

<u>Prerequisite</u>.  None.

<u>Ordnance</u>.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 3-52, Joint Doctrine for Airspace Control
2.  MCWP 3-16, Fire Support Coordination in the GCE

ACAD-2060        1.0        *        B                                                    G

Goal.  Identify weather reports and impacts of weather on aviation operations.

Requirement.  Perform the following:

1.  Identify the common aviation related weather reports.
2.  Interpret a Meteorological Aviation Report (METAR).
3.  Given a scenario by the instructor, identify the potential impacts to aviation operations of various weather conditions.

Performance Standard.  Pass an exam.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-35.7 MAGTF Meteorological and Oceanographic Support
2.  Federal Meteorological Handbook No. 1

ACAD-2065        1.0        *        B                                                    G

Goal.  Describe aviation ordnance.

Requirement.  Provided a list of 25 examples of air-to-ground ordnance, describe each to include:

1.  Nomenclature and/or short title.
2.  Description.
3.  Guidance scheme.
4.  Provide examples of targets it is effective against.
5.  Provide examples of USMC aircraft that can employ it.

Performance Standard.  Pass an exam.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 3-09, Joint Fire Support

8.7.4  COMMUNICATIONS (COMM)

8.7.4.1  Purpose.  To develop proficiency in utilizing MASS organic field radios and communications procedures.

8.7.4.2  General

Admin Notes.  None.

Prerequisites.  None.

Crew Requirements.  None.

COMM-2100     1.0       *       B                                                                   S/L

Goal.  Perform Pacific Numeral Cypher Authentication.

Requirement.  Given a KTC L500E, radio or simulated radio net, and simulated calls from external agencies or stations and information, perform the following:

1.  Authenticate 10 calls.
2.  Respond to 10 challenges.
3.  Encrypt five multi-word text messages.
4.  Decrypt five multi-word text messages.
5.  Encrypt five MGRS using RAMROD.
6.  Decrypt five MGRS using RAMROD.
7.  Review Gingerbread procedures.
8.  Review Beadwindow procedures.

Performance Standard.  Complete each requirement IAW the reference.  Minor errors corrected by the trainee are acceptable.  The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCRP 3-40.3B, Radio operator's handbook
2.  Allied Communication Publication (ACP) 125 (F), Communication Instructions – Radio Telephone Procedures

COMM-2105     1.0       *       B                                                                   L

Goal.  Utilize a man portable radio.

Requirement.  Given a current multiband radio and applicable references, conduct the following:

1. Review the characteristics of the listed radio.
2. Set up the radio.
   a. Configure antenna.
   b. Apply power.
   c. Input frequencies.
   d. Toggle frequencies.
   e. Scan frequencies.
3. Conduct a radio check.
   a. Establish cipher text communications.
   b. Establish plain text communications.
4. Zeroize the radio.
5. Send and receive chat messages.

Performance Standard.  Pass a practical application exam. Minor errors corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  2115.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. TM 11927A-OR, AN/PRC-117G
2. TM 10597A-OR/4, AN/PRC-117F
3. TM 10822A-OR, AN/PRC-150
4. TM 11496A-OI/3, AN/PRC-152

COMM-2110      1.0      *      B                                                              L

Goal.  Utilize the HF/VHF radio.

Requirement.  Given a current HF/VHF radio, and applicable references conduct the following:

1. Review the characteristics of the listed radio.
2. Set up the radio.
   a. Configure antenna.
   b. Apply power.
   c. Input frequencies.
   d. Toggle frequencies.
   e. Scan frequencies.
3. Conduct a radio check.
   a. Establish cipher text communications.
   b. Establish plain text communications.
4. Zeroize the radio.

Performance Standard.  Pass a practical application exam. Minor errors corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  2120.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  Applicable T/M.

COMM-2115     0.5      *         B                                              L

Goal.  Describe current man portable radios.

Requirement.  Given a current multi-band radio, state the following:

1.  State the characteristics, capabilities, and limitations of the radio.
2.  State the purpose and associated frequency spectrum for Frequency Hopping and HAVE QUICK.

Performance Standard.  State the requirement items IAW the applicable Technical Manuals (TM); minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  Applicable technical manual or operator's manual.

COMM-2120     0.5      *         B                                              L

Goal.  Describe current HF/VHF radios.

Requirement.  Given an HF/VHF radio, state the following:

1.  Identify capabilities and limitations of the HF/VHF radio.
2.  Explain the functions and capability of chat.
3.  Explain the purpose of waveforms.
4.  State the characteristics of the radio.

Performance Standard.  State the requirement items IAW the applicable TM(s); minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  Applicable technical manual or operator's manual.

COMM-2125      1.0      *      B                                                                    L

Goal.  Describe data functions associated with HF/VHF radios.

Requirement.  Given two HF/VHF radios, conduct the following:

1. Describe capabilities and limitations of the HF/VHF radio for data.
2. Explain the functions and capability of the Chat program.
3. Explain the purpose of waveforms.
4. Given a complete HF/VHF radio and required associated equipment, send and receive chat messages.

Performance Standard.  Complete requirement items IAW the reference; minor errors corrected by the trainee are acceptable.  The instructor will verify that the data and chat messages are sent and received.

Instructor.  BI

Prerequisite.  2120.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  Applicable T/M.

COMM-2130      2.0      *      B                                                                    L

Goal.  Identify communication problems.

Requirement.  Given an operational DASC and a scenario with verifiable communications problems:

1. Identify Net restoration/maintenance priorities.
2. Determine the communications problems.
3. Determine source of the communication problem:
    a. Operator error.
    b. System degradation.
    c. System jamming.
    d. System intrusion.
    e. System interference.
4. Correct the problem by initiating appropriate action and/or reports.

Performance Standard.  Complete requirement items IAW the reference; minor errors corrected by the trainee are acceptable. Instructor may evaluate trainee on naturally occurring communication problems without a scenario should they occur.

Instructor.  BI

Prerequisite.  2250 **OR** 2300 **OR** 2350

**AND**

2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2405, 2555, 2565, 8000, 8020, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCRP 3-40.3B, Radio operator's handbook
2.  MCRP 3-40.3C, Antenna Handbook
3.  MCWP 3-40.3, Communications and Information Systems

8.7.5  EQUIPMENT(EQUIP)

8.7.5.1  Purpose.  To develop proficiency in utilizing DASC operational equipment and hardware.

8.7.5.2  General

Admin Notes.  None.

Prerequisites.  None.

Crew Requirements.  None.

EQUIP-2150          1.5     *          B                                                                      L

Goal.  Identify the characteristics, capabilities, and limitations of the CS.

Requirement.  Identify and explain the following:

1.  Identify the nomenclature and number of radios.
2.  Identify the number of radio nets and frequency spectrum breakdown.
3.  Identify antennas.
4.  Explain the power requirements.
5.  Explain the remote capability.

Performance Standard.  Identify and explain the required items IAW the reference and without error.

Instructor.  BI

Prerequisite.  2115, 2120.

Ordnance.  None.

Range.  None.

External Syllabus Support.  Comm Section Support.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  TM 10576C-OI/1, Communication Interface System CAC2S(V)3
3.  TM 10576D-OI, Communication Interface System CAC2S(V)4
4.  Harris quick reference pocket guide for the AN/PRC 116

    5.  Harris quick reference pocket guide for the AN/PRC 150

EQUIP-2155    1.5    *    B                                          L

    Goal.  As part of a team, employ and maintain organic DASC shelter.

    Requirement.  Given the site diagram, an operational shelter with required cables, and four to six Marines, complete the following:

    1.  Emplace and expand shelter.
    2.  Stake down shelter.
    3.  Connect multiple shelters/vestibules/vehicle boots.
    4.  Connect ECU ducting/plenum.
    5.  Connect lighting subsystems.
    6.  Connect internal power harness/MEPDS gear.
    7.  Tear-down and repack shelter for retrograde.
    8.  Conduct limited maintenance/repair.

    Performance Standard.  Demonstrate the ability to properly set up (20 minutes) and tear down (20 minutes) a DASC Shelter and perform proper maintenance.  Units will conduct this event for each type of shelter on the CMR.

    Instructor.  BI

    Prerequisite.  None.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
    1.  BASE-X manual
    2.  Unit generated exercise/operation site diagram

EQUIP-2160    0.5    *    B                                          L

    Goal.  Identify the characteristics, capabilities and limitations of Motor Transport and Utilities (MT/UT) equipment associated with the MASS.

    Requirement.  Identify the MT/UT equipment as follows:

    1.  Identify rolling stock organic to the MASS.  Conduct the following for each:
        a.  State the proper nomenclature.
        b.  State the power capabilities/requirements.
        c.  Explain the purpose of SL-3 gear and where to find the list.
        d.  Identify what equipment the vehicles can tow/carry.
    2.  Identify utility equipment organic to the MASS.  Conduct the following for each:
        a.  State the proper nomenclature.
        b.  State the power capabilities/requirements.
        c.  State the relationship between utility equipment and specific DASC configurations.
    3.  Explain proper hazardous material handling.

    Performance Standard.  Identify and explain the required items IAW the references; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MSTP Pamphlet, MAGTF Planner's Guide

EQUIP-2165        0.5        *        B                                                                    L

Goal.  Identify the characteristics, capabilities and limitations of MRC vehicles.

Requirement.  Without the aid of reference, complete the following:

1.  State the proper nomenclature.
2.  State the frequency spectrum.
3.  State expected range and factors affecting range.
4.  Identify power requirements and output.
5.  Identify compatible antennae.
6.  Identify MRC employment options for a MASS.

Performance Standard.  Without the aid of reference, pass an exam.

Instructor.  BI

Prerequisite.  2115, 2120.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

EQUIP-2170        2.0        *        B                                                                    L

Goal.  Emplace and displace the Processing and Display System (PDS) Operations Facility (OPFAC).

Requirement.  Given a DASC system diagram, CAC2S PDS OPFAC components, and the reference:

1.  Set up the PDS OPFAC tents.
2.  Set up the power distribution components.
3.  Set up the network infrastructure components.
4.  Set up the War Fighter Consoles (WFCs) and visual display equipment.
5.  Initialize the OPFAC operator equipment to include startup and problem identification.
6.  Displace the PDS OPFAC.

Performance Standard.  With a DASC crew and reference, demonstrate the ability to perform requirement under general supervision.

Instructor.  BI

Prerequisite.  2155.

Ordnance.  None.

Range.  None.

External Syllabus Support.  COMM Section Support.

Reference.
1.  TM 12041A/12050A-OD2, CAC2S User Manual

8.7.6  INFORMATION DISPLAY MANAGER (IDM)

8.7.6.1  Purpose.  Develop proficiency in collecting, organizing, processing, and displaying information contained within the Direct Air Support Center.

8.7.6.2  General

Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient Information Display Manager.

Prerequisites.  None.

Crew Requirements.  None.

IDM-2200       2.0       *       B                                                                      L

Goal.  Perform coordination of track data.

Requirement.  Given CAC2S, network initialization parameters, an OPTASK LINK, track supervision net (TSN), and a data network, demonstrate the ability to:

1.  Brief data link use by the DASC.
2.  Brief DASC TDS initialization settings.
3.  Brief filters.
4.  Brief net entry/exit responsibilities.
5.  Brief data registration responsibilities.
6.  Brief interface anomalies resolution steps.
7.  Brief JCTW database read/write permissions.
8.  Enter the C2 database IAW the OPTASK LINK.
9.  Coordinate TDL gateway database entries IAW the OPTASK LINK.
10.  Ensure the TDL gateway is set to forward all addressed messages to the C2 tactical data system address.
11.  Ensure TDL filters are entered IAW OPTASK LINK.
12.  Perform net entry responsibilities.
13.  Perform track data coordination.
14.  Maintain awareness of all local tracks.
15.  Perform net exit responsibilities.

Performance Standard.  Complete the listed requirements with the aid of reference.  Coordination with Tactical Data System administrators is expected for steps 9, 10, 11, 12, and 15.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2811.

Ordnance.  None.

Range.  None.

External Syllabus Support.  Tactical Data System Administrators, external JREAP capable system, LVC interface coordination cell, LVC forwarding JTIDS/MIDS Unit Generic.

Reference.
1.  TM 12041A/12050A-OD/2, System User Manual for CAC2S
2.  MSCT Display User Manual
3.  CJCSM 3115.01, Joint Data Network Operations
4.  CJCSM 6120.01, Joint Multi TDL operating procedures
5.  Unit SOP

8.7.7  AIR SUPPORT OPERATOR (ASO)

8.7.7.1  Purpose.  To develop proficiency in crew coordination and functioning associated with direct air support operations.

8.7.7.2  General

Admin Notes.  None.

Prerequisites.  None.

Crew Requirements.  None.

ASO-2205          1.0          *          B                                                                L

Goal.  Plot coordinates and symbols on a map.

Requirement.  Given a paper map, protractor, list of 20 coordinates, five Fire Support Coordination Measures (FSCMs), five Airspace Coordination Measures (ACMs), five friendly and five enemy unit locations, and 15 direct air support requests, demonstrate ability to:

1.  Locate five, four-digit Military Grid Reference System (MGRS) coordinates within 15 seconds each.
2.  Locate five, six-digit MGRS coordinates within 25 seconds each.
3.  Locate five, eight-digit MGRS coordinates within 35 seconds each.
4.  Locate five Lat/Long coordinates within 30 seconds each.
5.  Plot five Fire Support Coordination Measures (FSCM) using appropriate symbols.
6.  Plot five Airspace Coordination Measures (ACM) using appropriate symbols.
7.  Plot five friendly and five enemy units using appropriate symbols.
8.  Plot five Joint Tactical Air Request (JTARs).
9.  Plot five Air Support Request (ASRs).
10.   Plot five Medevacs.

Performance Standard.  Plot coordinates and symbols within the time allowed IAW the reference. Minor errors that are corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite. 2045, 2055, 2900, 2901, 2921, 8001, 8003.

Ordnance. None.

Range. None.

External Syllabus Support.
(a) MarineNet CC03AO (Graphic and Airspace Control Measures)

Reference.
1. JP 3-52, Joint Doctrine for Airspace Control in a Combat Zone.
2. MCRP 5-2A, Operational Terms and Graphics.
3. MCWP 3-16, Fire Support Coordination in the Ground Combat Element.

ASO-2400      2.0      *      B                                               L

Goal. Maintain information on the DASC Tactical Display.

Requirement. Given a Tactical Data System (TDS), Network initialization parameters, and OpTask Link, Track Supervision Net (TSN), and data networks, demonstrate the ability to:

1. Configure your local system track list.
2. Import an ATO.
3. Apply the appropriate display filters.
4. Plot land units / platforms as a track.
5. Plot geometries as a track.
6. Pair two or more tracks.
7. Perform manual correlation actions.
8. Drop a track.
9. Apply a primary hook for a track.
10. Apply a secondary hook for a track.
11. Apply a pointer onto the interface.
12. Provide a bearing and range between two objects.
13. Create an overlay file.
14. Import an ACO as an overlay file.
15. Create an overlay object.
16. Organize an overlay file IAW unit SOP.
17. Share an overlay.

Performance Standard. N/A.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. TM 12041A/12050A-OD2, CAC2S User Manual
2. MSCT Display user manual
3. CJCSM 3115.01, Joint Data Network Operations
4. CJCSM 6120.01, Joint Multi-TDL Operating Procedures

5.  Unit SOP

ASO-2405          4.0          *          B                                                                  S

Goal.  Conduct Direct Air Support Center (DASC) operations in a Chemical Biological Radiological Nuclear (CBRN) environment.

Requirement.  Given an Op Tempo Level 2 scenario, supporting documentation, an operational DASC, conduct assigned duties in a simulated CBRN environment.  Begin in MOPP-0 and graduate to MOPP-IV over a four hour period.  While increasing MOPP levels:

1.  Utilize CBRN defense equipment as required.
2.  Alert subordinate displaced elements.
3.  Notify external agencies and aircraft.
4.  Conduct the duties of the DASC position filled.

Performance Standard.  Complete the requirement items.  Minor errors corrected by the trainee are acceptable.  The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  2250 **OR** 2300 **OR** 2350.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  Marine Corps Common Skills Handbook.
2.  MCO 3400.3F (page 4, para. D) Nuclear, Biological, and Chemical Defense (NBCD) Training
3.  MCRP 3-11.2A, Troop Leader's Guide (Appendix G)

8.7.8  AIR CONTROL RECORDER (ACR)

8.7.8.1  Purpose.  Develop proficiency in maintaining the situational display used in tracking ATO mission information.

8.7.8.2  General

Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient Air Control Recorder.

Prerequisites.  None.

Crew Requirements.  None.

ACR-2210          2.0          *          B                                                                  L

Goal.  Track and display information associated with the execution of the Air Tasking Order (ATO).

Requirement.  Given an ATO with a minimum of 10 fixed wing and 10 rotary wing missions, Special Instructions (SPINS) and a Frag Sheet or status display, demonstrate the ability to:

1.  State the purpose and use of the United States Military Text Format (USMTF) ATO.

2. Parse an ATO and display pertinent information.
3. Extract mission data from an ATO.
4. Correctly display aircraft mission data in appropriate fields on frag sheet or display.
5. Display five changes to mission status.
6. Display five changes to mission data.
7. Display five changes to mission routing.
8. Display mission location and altitude for all missions.

Performance Standard. Track and display fixed wing and rotary wing information per the required items IAW the reference. Minor errors that are corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor. BI

Prerequisite. 2045, 2900, 2901, 2910, 8001, 8003.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. DISA USMTF Baseline

### 8.7.9 TACTICAL AIR REQUEST/HELICOPTER REQUEST (TRHR)

8.7.9.1 Purpose. Develop proficiency in receiving and processing requests for immediate direct air support.

8.7.9.2 General

Admin Notes. Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient Tactical Air Request/Helicopter Request net operator.

Prerequisites. None.

Crew Requirements. None.

TRHR-2250        2.0        *        B                                                      S/L

Goal. Receive and process immediate air support requests.

Requirement. Given a minimum of 10 CASEVAC, 10 Joint Tactical Air Request (JTAR), and 10 Air Support Request (ASR) requests, perform the following for each air request.

1. Receive immediate support request from requesting unit.
2. Pass request number to requesting unit.
3. State the purpose and process of informing the crew.
4. Pass mission data to requesting unit.
5. Receive Battle Damage Assessment (BDA) and pass to CC and SAD.
6. Confirm with requesting unit mission complete.

Performance Standard. Process 9 of 10 of each type of immediate air support requests by completing each requirement item. Minor errors that are corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  2045, 2100, 2900, 2901, 2902, 2911, 2940, 8000, 8003.

Ordnance Requirement.  None.

Range/Target Requirement.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

8.7.10  TACTICAL AIR COMMAND/DIRECT AIR SUPPORT (TCDS)

8.7.10.1  Purpose.  Develop proficiency in coordinating the execution of direct air support missions with the TACC and other MACCS agencies.

8.7.10.2  General

Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient TAC/DAS Net Operator.

Prerequisites.  None.

Crew Requirements.  None.

TCDS-2300      2.0      *      B                                                        S/L

Goal.  Exchange information with the TACC/ACE.

Requirement.  Given a Tactical Air Command/Direct Air Support (TAC/DAS) Net comprising of a TAC/DAS net operator and a Close Battle Coordinator (CBC), pass and receive a minimum of five examples of each of the following:

1.  ATO and Airspace Control Order (ACO) changes.
2.  Mission status.
3.  Immediate air support requests.
4.  Mission data and/or requests for launch or divert of A/C.
5.  Friendly and enemy updates.
6.  Weather updates.

Performance Standard.  Process four of five of each information category listed in the requirement.  Minor errors corrected by the trainee are acceptable.  The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  2045, 2055, 2060, 2100, 2210, 2900, 2901, 2902, 2905, 2910, 2911, 2940, 8001, 8002, 8003.

Ordnance Requirement.  None.

Range/Target Requirement.  None.

External Syllabus Support.  None.

Reference.
1. MWCP 3-25.5, DASC Handbook

8.7.11 <u>FIRE SUPPORT COORDINATION (FSC)</u>

8.7.11.1 <u>Purpose</u>. To develop proficiency in coordinating the integration of aircraft employment with other supporting arms.

8.7.11.2 <u>General</u>

 <u>Admin Notes</u>. Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient FSC net operator.

 <u>Prerequisites</u>. None.

 <u>Crew Requirements</u>. None.

FSC-2350  2.0  *  B              S/L

 <u>Goal.</u> Exchange information with the FSCC/GCE.

 <u>Requirement</u>. Given the reference and a FSC net comprised of a FSC Net operator and counterpart in the FSCC, pass and receive a minimum of five examples of each of the following:

1. Fire support coordination measures.
2. Ground scheme of maneuver updates.
3. Friendly and enemy situation updates.
4. Fire Support positions and fire capability.
5. Pass and receive requests for changes to Air Tasking Order (ATO)/Airspace Control Order (ACO)/Frag/Special Instructions (SPINS).

 <u>Performance Standard</u>. Process information in each category. Minor errors that are corrected by the trainee are acceptable. The instructor may provide minimal guidance.

 <u>Instructor</u>. BI

 <u>Prerequisite.</u> 2045, 2055, 2110, 2940, 8001, 8002, 8003, 8062.

 <u>Ordnance Requirement</u>. None.

 <u>Range</u>. None.

 <u>External Syllabus Support</u>. None.

 <u>Reference</u>.
1. MCWP 3-25.5, DASC Handbook

FSC-2355  2.0  *  B              S/L

 <u>Goal.</u> Process fire missions.

 <u>Requirement</u>. Given a minimum of 10 simulated fire missions:

1. Receive fire mission data from the FSCC.
2. Request additional info if required.
3. State the purpose and process of informing the crew.

4.  Pass a/c locations to FSCC if applicable.
5.  Confirm End of Mission (EOM).

Performance Standard.  Complete the requirement items.  Minor errors corrected by the trainee are acceptable.  The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  None.

Ordnance Requirement.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

8.7.12  CREW CHIEF (CC)

8.7.12.1  Purpose.  To develop proficiency in crew and system management involved in direct air support operations.

8.7.12.2  General.

Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient DASC Crew Chief.

Prerequisites.  Complete ACPM 8040 and 8060 prior to completion of this stage.

Crew Requirement.  DASC Crew.

CC-2455          1.0      *        B                                                   L

Goal.  Extract critical information from supporting documents.

Requirement.  Demonstrate the ability to extract critical information required for Direct Air Support Center (DASC) operations including but not limited to Fire Support Coordination Measures (FSCMs), Airspace Coordination Measures (ACMs), Scheme of Maneuver, Communications nets and frequencies, and aircraft missions from the following documents:

1.  Warning Orders, Operations Orders (OPORDs) and Fragmentary Orders (FRAGOs).
2.  Communications Plans and Automated Communications-Electronics Operating Instructions (ACEOI).
3.  Airspace Control Plans (ACPs).
4.  Airspace Control Orders (ACOs).
5.  Air Tasking Orders (ATOs) and Special Instructions (SPINS).
6.  OPTASK Link.

Performance Standard.  Complete the required items IAW the reference. The instructor will verify the required information is extracted; minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205,

2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 8000, 8020, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  DISA USMTF Baseline

CC-2460         1.0       *       B                                                              L

Goal.  Perform DASC Crew Chief administrative functions.

Requirement.  Given the necessary forms or formats and a scenario, identify the necessary information to complete and route the following reports/forms:

1.  Joint Spectrum Interference Report (JSIR).
2.  Equipment Status report.
3.  Daily Operational summary (OPSUM).
4.  DASC Crew position evaluations and qualification recommendations.

Performance Standard.  Complete each requirement. The instructor may provide minimal guidance.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CC-2465         1.0       *       B                                                              L

Goal.  Determine prioritization of communication links.

Requirement.  Given the reference, a list of communication paths, and a DASC scenario with communication link failures, perform the following:

1.  Establish net restoration priority.
2.  Explain restoration priorities.

Performance Standard.  The instructor will verbally inform the trainee of three radio, JRE, and data failures. Trainee will brief the instructor on the restoration priority.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 8000, 8020, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CC-2475            4.0        *        B                                                                    S/L

Goal.  Conduct the duties of a DASC Crew Chief during a passage of control.

Requirement.  Given a scenario, supporting documentation, an operational DASC with echelon, and a passage of control checklist, demonstrate the ability to effectively conduct the following tasks while managing a DASC crew with an operational tempo of (2) F/W ATO missions, (2) R/W ATO missions, (2) immediate requests, and (1) fire mission:

1.  Conduct pre-watch brief, crew change brief and debrief.
2.  Manage Communication assets.
3.  Extract critical information from supporting documents.
4.  Maintain a log of significant events.
5.  Review forms for completeness and accuracy.
6.  Ensure information processed by the DASC is complete and accurate and routed to the appropriate agency.
7.  Ensure situational displays are maintained accurately.
8.  File all forms and conduct an operational summary daily.
9.  Ensure equipment status reports are completed daily.
10.  Ensure crewmembers are being trained and evaluated.
11.  Conduct a passage of control as necessary.

Performance Standard.  Conduct duties of a Crew Chief (requiring minimal input from the instructor) while a DASC passes or receives control of airspace.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CC-2480          1.0      *      B                                                        L

Goal.  Match available aviation assets with requests.

Requirement.  Given a map, a list of aircraft with ordnance loads (flying and on strip alert), and ten immediate air support requests for each of the following: ASR, JTAR, and a CASEVAC;  assign appropriate aircraft.

Performance Standard.  Brief the instructor on assignments made.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3003, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 1-02, Joint Dictionary of Definition and Terms
2.  MCWP 3-2, Aviation Operations
3.  MCWP 3-25.5, DASC Handbook
4.  MCWP 3-25.3, MACCS Handbook
5.  MCRP 3-16.6A, TTP for Joint Application of Firepower
6.  MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

8.7.13  DASC Chief (DC)

8.7.13.1  Purpose.  To develop technical expertise and proficiency required for DASC employment, integration into the MACCS, coordination with elements of the MAGTF, and planning for and management of air support operations.  At the conclusion of this stage of training individuals may be designated by the commanding officer as Direct Air Support Center (DASC) Chiefs.

8.7.13.2  General

Admin Notes.  None.

Prerequisites.  Complete ACPM-8080 prior to completing this stage of training.

Crew Requirement.  DASC Detachment (multiple DASC Crews).

DC-2500          1.5      *      B                                                        L

Goal.  Conduct DASC site selection/map survey.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and a general location, select a site that will support DASC operations and draw a site diagram accounting for the following considerations:

1. Identify environmental concerns that may affect DASC communication.
2. FSCC collocation/coordination.
3. Site security.
4. Camouflage and dispersion.
5. Trafficability.
6. Location of communications and support equipment.
7. Priority for equipment emplacement.
8. Echelon considerations.
9. Identify composition of the Pre-deployment site survey team.
10. Identify alternate sites.

Performance Standard. Brief the instructor and answer questions on the site selected.

Instructor. BI

Prerequisite. MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8060.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. TM 10576D-OI, Communication Interface System CAC2S

DC-2505          1.0          *          B                                                                    L

Goal. Supervise emplacement of the DASC.

Requirement. Given a site diagram with notation, 2 DASC crews, 2 Communication electronics crews, support personnel, and DASC equipment, perform the following:

1. Emplace equipment with proper dispersion per the site diagram.
2. Establish site security.
3. Camouflage equipment and site.
4. Ensure emplacement of Communications and support equipment to facilitate DASC operations.

Performance Standard. Emplace a DASC IAW with the site diagram.

Instructor. BI

Prerequisite. MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170,

2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8060.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  TM 10576D-OI, Communication Interface System CAC2S

DC-2510          2.0       *        B                                                                  L

Goal.  Determine DASC requirements.

Requirement.  Given mission tasking and Commander's guidance, determine requirements to support the DASC mission taking into account the following considerations:

1.  Size of force supported.
2.  Operational hours and duration of operation/exercise.
3.  Communication requirements.
4.  Size of ACE / sortie rate.
5.  Size of GCE / expected rate of immediate requests.
6.  Digital backbone.
7.  Use of automated systems.
8.  Use of DASC extensions.
9.  Echelon requirements.
10.  Information exchange requirements.
11.  Coordinate with supporting sections to produce: BOM, EDL, LSR, PEI listing, physical security of the site.

Performance Standard.  Complete all requirement items and brief the instructor.

Instructor.  BI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,   2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911,  2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8040, 8060.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

2. MCWP 5-1, Marine Corps Planning Process (MCPP)
3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual
4. Chapter 1 of this Manual

DC-2515          1.5       *       B                                                    L

Goal. Describe DASC displacement operations.

Requirement. Given a scenario-based Tactical Decision Game (TDG):

1. Define DASC displacement operations.
2. Explain the steps of DASC displacement operations IAW the references.
3. Write a plan for the DASC to displace, annotate identified issues of concern.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. The written plan must support the scenario.

Instructor. BI

Prerequisite. MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8040, 8060.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. MCWP 5-1, Marine Corps Planning Process (MCPP)
3. MAGTF Operations Ashore

DC-2520          1.0       *       B                                                    L

Goal. Describe Phasing Control Ashore.

Requirement. Given a scenario-based TDG, demonstrate the following:

1. Define phasing control ashore.
2. Explain each step of phasing control ashore.
3. Determine common issues of concern.
4. Write a plan to phase control ashore, annotate identified issues of concern.

Performance Standard. Complete all the requirements. Instructor will discuss each item with the trainee. The written plan must support the scenario.

Instructor. BI

Prerequisite. MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170,

2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  MCWP 5-1, Marine Corps Planning Process (MCPP)
3.  MAGTF Operations Ashore
4.  JP 3-02 Joint Doctrine for Amphibious Operations

DC-2525          80.0    *          B                                                                    L

Goal.  Create and supervise the conduct of a DASC Drill.

Requirement.  Given a list of training objectives, plan, coordinate, and execute a DASC simulation to include:

1.  Develop a scenario IAW training objectives.
2.  Build a DASC drill to support the scenario (use of a simulation generator is encouraged but not required).
3.  Submit the scenario and DASC drill to the instructor.
4.  Request required communications and support equipment.
5.  Identify white cell requirements.
6.  Oversee setup of the DASC and white cell.
7.  Ensure execution and evaluation of the scenario.
8.  Compile after action items.

Performance Standard.  Complete all the requirement items while working with an SAD.

Instructor.  BI

Prerequisite.  MarineNet Course: and Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911,  2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  None.

External Syllabus Support.  S-6, S-4, and MT/UT.

Reference.
1.  MCWP 3-25.5, DASC Handbook
2.  MCWP 5-1, Marine Corps Planning Process (MCPP)

3.  MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

DC-2530          1.0       *       B                                              L

Goal.  Develop and execute a load plan.

Requirement.  Given a movement order, Equipment Density List (EDL), and manning document:

1.  Examine available personnel, equipment, vehicles, and trailers.
2.  Determine priorities for loading and unloading based on position occupation plan.
3.  Determine convoy order based on position occupation plan.
4.  Graphically display personnel and equipment carried in each vehicle or trailer.
5.  Ensure classified cargo, sensitive cargo, and hazardous material (HAZMAT) is properly loaded.
6.  Establish bump plan for personnel, equipment, and classified material should vehicle/trailer become disabled.
7.  Conduct Pre-Combat Inspections (PCI).

Performance Standard.  Conduct all the items in accordance with the references.

Instructor.  BI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,   2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911,  2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, 8060, 8080.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCRP 4-11.3G Unit Embarkation Handbook
2.  MCWP 3-16.3 Tactics, Techniques and Procedures for the Field Artillery Cannon Battery
3.  FM 6-50 Tactics, Techniques and Procedures for the Field Artillery Cannon Battery
4.  FM 4-01.011, Unit Movement Operations
5.  FORSCOM Form 285-R, Vehicle Load Card
6.  Squadron SOP

8.7.14  FAMILIARIZATION (FAM)

8.7.14.1  Purpose.  To facilitate the understanding of DASC operations through the familiarization with and observation of agencies/ organizations external to the DASC involved in aviation operations.

8.7.14.2  General.

Admin Notes.  The familiarization events contained in this phase are intended to complement the MACCS (8000) Stage and the MAGTF (8060) Stage of the ACPM.  Each event is to be conducted as a tour of an operational facility under the guidance of a DASC BI or appropriate agency equivalent.

Prerequisites.  None.

Crew Requirements.  None.

FAM-2555        2.0        *        B                                                        L

Goal.  Observe a TACC.

Requirement.  While observing a TACC, discuss the positions, equipment and operations in relation to the DASC.

Performance Standard.  Complete a tour of a TACC.

Instructor.  BI

Prerequisite.  8001, 8002, 8003.

Ordnance.  None.

Range.  None.

External Syllabus Support.  TACC.

Reference.
1.  MCWP 3-25.4, Marine Tactical Air Command Center Handbook

FAM-2565        2.0        *        B                                                        L

Goal.  Observe a Fire Support Coordination Center (FSCC).

Requirement.  While observing an FSCC in a field environment discuss the positions, equipment, and operations in relation to the DASC.

Performance Standard.  Complete a tour of a FSCC.

Instructor.  BI

Prerequisite.  8001, 8003, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  An operational FSCC.

Reference.
1.  MCWP 3-16, Fire Support Coordination in the Ground Combat Element

FAM-2570        2.0        *        B                                                        L

Goal.  Observe the Tactical Air Operations Center (TAOC) or an EW/C.

Requirement.  Observe TAOC or EW/C positions, equipment, and operations.

Performance Standard.  Complete a tour of a TAOC or an EW/C.

Instructor.  BI

Prerequisite.  8001, 8003, 8004.

Ordnance.  None.

Range.  None.

External Syllabus Support.  TAOC.

Reference.
1.  MCWP 3-25.7, Tactical Air Operations Center Handbook

FAM-2575          2.0          *          B                                                          L

Goal.  Observe the configuration and operation of a Marine Air Traffic Control Mobile Team (MMT).

Requirement.  Tour an operational MMT.

Performance Standard.  Complete a tour of an MMT.

Instructor.  BI

Prerequisite.  8001, 8003, 8005.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.8, Marine Air Traffic Control Detachment Handbook

8.7.12  TACTICAL DATA LINKS (TDL)

8.7.12.1  Purpose.  To develop DASC experience in establishing and operating advanced datalinks.

8.7.12.2  General

Admin Notes.  Tactical Data Link events are located in the MAWTS-1 C3 Course Catalog in order to maintain standardized training across the MACCS.  The below listed TDL events are to be completed by DASC personnel, position dependent.

Prerequisites.  None.

Crew Requirement.  None.

TDL-2800          1.0          *          B                                                          G

Goal.  Identify the purpose of documents that enable Tactical Data Link (TDL) operations.

Requirement.  Given the documents below, identify their purpose:

1.  Guard Chart.
2.  Communication Electronic Operating Instruction (CEOI).
3.  Operations Order Annex K.
4.  Operations Order Annex U.

    5. Link 16 Network Description Document.
    6. Communications Security (COMSEC) Callout.
    7. Operational Tasking Data Link (OPTASK LINK).
    8. Satellite Access Authorization (SAA).
    9. Joint Multi-TDL Operating Procedures (JMTOP).

Performance Standard. With the aid of references, complete the required items IAW the reference. Minimal self-corrected errors allowed.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 5-1, Marine Corps Planning Process
2. MCWP 3-40.3, MAGTF Communications Systems
3. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)

TDL-2803     1.0    *     B                                           G

Goal. Identify DASC voice and data communications equipment.

Requirement. Given the references, identify the following:

1. Radio systems.
2. Data link systems.
3. C2 Systems.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCRP 5-12D, Organization of Marine Corps Forces
2. MCWP 3-25.5, Direct Air Support Center Handbook
3. Approved Core METL applicable to the unit
4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-2808     1.0    *     B                                           G

Goal. Describe the Joint Data Network.

Requirement.
1.  Define the Joint Data Network (JDN).
2.  State the responsibilities of the Joint Data Network Operations Officer (JDNO).
3.  State the purpose of the Global Command and Control System (GCCS) Family of Systems (FoS).
4.  Define Common Operational Picture (COP).
5.  Define Common Tactical Picture (CTP).
6.  Define Tactical Picture.
7.  State the components of the CTP.
8.  Describe track management.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 3115.01: Volume 1, Joint Data Network Operations
2.  CJCSM 3115.02: Volume 2, Common Tactical Picture Data Management
3.  CJCSI 3115.01, CTP Reporting Requirements
3.  CJCSI 3151.01B, GCCS COP Reporting Requirements

TDL-2809          2.0          *          B                                                              G

Goal.  Describe the Multi-Tactical Data Link (TDL) Interface.

Requirement.
1.  State the concept and information exchange of the Multi-TDL Interface.
2.  State the technical functions of the Multi-TDL Interface.
3.  List the three elements of the Multi-TDL Interface.
4.  Define the Basic Interface and list its three data links.
5.  Identify the characteristics of Link 11.
6.  Identify the characteristics of Link 11B.
7.  Identify the characteristics of Link 16.
8.  Define the Extended Interface.
9.  Identify the purpose of the Joint Range Extension Application Protocol (JREAP).
10.  Define the following interface voice coordination nets:
    a.  Air Defense Command and Control Net (ADCCN)
    b.  Engagement Control Net (ECN)
    c.  Datalink Coordination Net (DCN)
    d.  Track Supervision Net (TSN)
    e.  Voice Product Net (VPN)
11.  Describe the delegation of responsibilities for the conduct of the Multi-TDL operations at the Joint Task Force (JTF) level and below.
12.  State the two Interface Control Officer (ICO) execution functions.
13.  State the responsibilities of the Link 16 Manager.
14.  State the responsibilities of the Link 11/11B Manager.
15.  State the responsibilities of the Track Data Coordinator (TDC).

16. List the minimum requirements for Services that operate the Multi-TDL Interface.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. MIL-STD-3011, JREAP Interface Standard

TDL-2810        2.0      *        B                                                          G

Goal. Identify Interface Unit (IU) categories and addressing requirements.

Requirement. Perform the following:

1. Identify how IUs are categorized.
2. Define Concurrent Operations.
3. Define Data Looping.
4. Define the following IU communication functions:
    a. Interface Unit (IU).
    b. JTIDS/MIDS Unit (JU).
    c. Command and Control JTIDS/MIDS Unit (C2JU).
    d. Non-Command and Control JTIDS/MIDS Unit (NonC2 JU).
    e. Participating Unit (PU).
    f. Reporting Unit (RU).
    g. Supporting Unit (SU).
    h. Forwarding JTIDS/MIDS Unit A (FJUA).
    i. Forwarding JTIDS/MIDS Unit B (FJUB).
    j. Forwarding JTIDS/MIDS Unit AB (FJUAB).
    k. Forwarding Participating Unit (FPU).
    l. Forwarding Reporting Unit (FRU).
    m. Concurrent Interface Unit (CIU).
5. Define IU Address.
6. Identify legal and preferred IU address ranges for:
    a. PU/FPU.
    b. RU/FRU.
    c. C2JU.
    d. NonC2 JU.
    e. FJUA/FJUAB.
    f. FJUB.
7. Explain the purpose of the pseudo source address.
8. Explain the purpose of the collective address.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor

errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2811        2.0        *        B                                                        G

Goal.  Identify basic track data.

Requirement.  Perform the following:

1.  Define track number.
2.  Identify the value and purpose of the following:
    a.  Low track numbers.
    b.  High track numbers.
    c.  Data forwarding track numbers.
2.  Identify five track environments.
3.  Identify the six standard track identifications.
4.  Define Track Quality.
5.  Define real-time track reports.
6.  Identify how non real-time tracks are distinguished from real-time tracks.
7.  Identify when non-real time tracks are used.
8.  Define Reporting Responsibility (R2).
9.  Define a common track.
10.  Define correlation.
11.  Define automatic correlation.
12.  Describe track number negotiations during correlation.
13.  Define Manual Correlation.
14.  Explain de-correlation.
15.  Define Dual Designation.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2812        2.0      *        B                                                            G

Goal.  Identify information contained within J-Series Messages that may be displayed to the operator.

Requirement.  Define the following:

1. Identify the six Precise Participant Location and Identification (PPLI) message types.
2. Identify the information conveyed within J2.X PPLI messages.
3. Identify the main difference between a J2.0 Indirect PPLI message and the other J2.X PPLI messages.
4. Identify the five Platform Status and System Status message types.
5. Identify the information conveyed within J13.X Platform and System Status messages.
6. Identify the eight Surveillance message types.
7. Identify information conveyed within J3.X Surveillance messages.
8. Identify the characteristics of each IFF/SIF Code.
9. Identify the differences between a sensor measured altitude, Mode IIIC altitude, and PPLI altitude.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2814        2.0      *        B                                                            G

Goal.  Describe Data Filters.

Requirement.  With the aid of reference, perform the following:

1. Identify the purpose of data filters.
2. State operational factors that may dictate the use of data filters.
3. Describe transmit filters.
4. Describe forwarding filters.
5. Describe receive filters.
6. Explain why receive filters require an equally restrictive transmit filter.
7. Describe display filters.
8. State the difference between a force filter and a unit filter.
9. State the purpose of the following data filter types:
   a. Geographic filters.
   b. Fixed or slaved filters.
   c. Identification filters.

d. Environment filters.
e. Reference point filters.
f. EW filters.
g. Special Processing Indicator (SPI) filters.
10. Describe how Force Tell and Emergency Data interact with data filters.
11. State the personnel responsible for data filters and their associated duties.
12. Describe the characteristics of prearranged and non-prearranged data filters.
13. State the function of filter numbers and identify codes associated with the ten filter unit types.
14. List essential information that should be included when establishing a data filter.
15. State the doctrinal restrictions on the establishment of data filters.
16. State the difference between a data filter and a link connection.
17. Identify the unique filtering capabilities of different gateways IAW the references.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS
5. JRE Version 5.3.x Software User Guide
6. ADSI Version 14.1.1 Software Users Guide

TDL-2818        3.0        *        B                                                        G

Goal. State the characteristics of Link 16.

Requirement. Perform the following:

1. Identify terminal capacity of a Link 16 terminal.
2. Identify spectral capacity of a Link 16 network.
3. Identify the two types of security used by Link 16.
4. Identify the organization of a Secure Data Unit (SDU).
5. Identify the purpose of the JANUS Table.
6. Identify the two range modes associated with Link 16.
7. Define direct connectivity.
8. Define relayed connectivity.
9. Identify the purpose of an Initialization Data Load (IDL).
10. Locate the website and phone number of the USMC Network Design Facility (NDF).
11. Define time division multiple access.
12. Identify the acceptable time error when initializing a Link 16 terminal.
13. Explain the synchronization process and the importance of each message in the synchronization process:
    a. Precise Participate Location and Identification (PPLI).
    b. Initial Entry Message (IEM).

    c.  Round Trip Timing (RTT) Message.
14.  Identify the two Link 16 duties that transmit the IEM.
15.  Identify the frequency range used by Link 16.
16.  State the purpose of pulse deconfliction.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  CJCSI 6232.01_, Link 16 Spectrum Deconfliction

TDL-2819     2.0     *     B                                      G

Goal.  State the characteristics of the Joint Range Extension Application Protocol (JREAP).

Requirement.  Perform the following:

1.  Describe JREAP A.
2.  Select the data rates of JREAP A.
3.  Describe JREAP A roles.
4.  Describe the JREAP A Transmission Sequence List (TSL).
5.  Explain the difference between JREAP A and Satellite J.
6.  Describe JREAP B.
7.  Describe JREAP B modes of operation.
8.  Select JREAP B data rates.
9.  Describe JREAP C.
10.  Describe JREAP C modes of operation.
11.  Define the following terms associated with JREAP:
    a.  Common Time Reference
    b.  Demand Assigned Multiple Access (DAMA)
    c.  Joint Range Extension (JRE)
    d.  JRE Network Controller
    e.  JRE Source Track Number
    f.  Link 16 Zone
    g.  Multicast
    h.  Packet
    i.  Port
    j.  Secondary Track Number
    k.  Token Passing
    l.  Unicast

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-3011, JREAP Interface Standard

TDL-2820        2.0        *        B_____G

Goal.  Identify mission essential segments, sets, and fields within the OPTASK LINK message.

Requirement.  With the aid of reference, perform the following:

1.  Identify the purpose of the OPTASK LINK.
2.  Identify who is responsible for creating and disseminating the OPTASK LINK.
3.  State the purpose of the Common Message Processor (CMP) and discuss its relationship to the OPTASK LINK.
4.  Define Segment.
5.  Define Set.
6.  Define Field.
7.  Identify the information contained in the Header of the OPTASK LINK to include the following sets:
    a.  GENTEXT/CONDUCT OF TDL OPERATIONS.
    b.  POCLINK.
    c.  DLRPGRID.
8.  Identify the information contained in the IVCCN Segment.
9.  Identify the information contained in the CORRDEC set.
10.  Identify the information contained in THE HEADING/MULTILINK INTERFACE COORDINATION REQUIREMENTS set to include the following GENTEXT sets:
    a.  FORCE INTERFACE INFORMATION.
    b.  REGIONAL INTERFACE INFORMATION.
    c.  SECTOR INTERFACE INFORMATION.
    d.  CHANGE DATA ORDER AUTHORITIES.
    e.  CONTINGENCY PROCEDURES.
    f.  TRACK PRODUCTION AREA GUIDANCE.
11.  Identify the information contained in the MULCDUTY set.
12.  Identify the information contained in the Link 11 Segment to include the following sets:
    a.  POLLSEQ.
    b.  LSYSDATA.
    c.  CRYPTDAT.
    d.  DALKFREQ.
    e.  FORCFLTER.
    f.  LPUDATA.
    g.  UNITFLTR.
13.  Identify the information contained in the Link 16 Segment to include the following sets:
    a.  JNETWORK.
    b.  CPD.
    c.  JCRYPDAT.
    d.  JTRNMODE.
    e.  JSTNETS.

    f.  JUDATA.
    g.  SQDDATA.
14.  Identify the information contained in the Joint Range Extension (JRE) Data Segment to include the following sets:
    a.  UNITINFO.
    b.  LNKPROT.
    c.  SECTEL.
    d.  SECINTER.
    e.  SATCONN.
    f.  CONMATRX.
15.  Identify the information contained in the 1MANCODE set.

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures
2.  Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS

TDL-2821     1.0     *     B                                  G

Goal.  State the purpose of Interface Coordination procedures.

Requirement.  Perform the following:

1.  Identify the purpose of data link entry/exit procedures.
2.  Define data registration.
3.  State the purpose of the following data registrations:
    a.  Geodetic registration.
    b.  Sensor registration.
    c.  Remote Interface Unit (IU) registration.
4.  List the steps of the data registration test.
5.  State which unit will normally be assigned as the data registration reference unit in a Multi-TDL environment.
6.  List the five correlation restrictions for reported tracks.
7.  List the eight operational contingency constraints (OCCs) for a track.
8.  List the six steps for voice resolution of a dual designation.
9.  IAW the JMTOP, what is the single most important element of information of the TDL interface.
10.  Define an Identification (ID) conflict.
11.  Define an environment conflict.
12.  Outline the ID difference resolution procedures.
13.  Define a Change Data Order (CDO).
14.  State who on the interface may originate a CDO.
15.  Identify the three detection and tracking reporting techniques.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4.  MCRP 3-25E, MTTP for an Integrated Air Defense System

TDL-2850          3.0         *          B                                                                          L

Goal.  Conduct tactical data link coordination for an agency.

Requirement.  Given an exercise or operational scenario:

1.  Brief the tactical data link (TDL) portion of the agency's crew brief.
2.  Execute the agency's duties identified in the OPTASK LINK.
3.  Respond to instructions given by the Interface Control Officer (ICO).
4.  Provide recommendations to the ICO during execution.
5.  Configure primary, secondary, and tertiary tactical data links.
6.  Monitor the status and health of operational TDLs.
7.  Coordinate data forwarding and link connections for the agency.
8.  Coordinate data filters for the agency.

Performance Standard.  Complete the requirement items IAW the references without error.  Minor errors corrected by the trainee are acceptable.

Prerequisite.  2800, 2809, 2810, 2814, 2820.

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  C3 Agency's Pocket Checklist

TDL-2851          3.0         *          B                                                                          L

Goal.  Perform track data coordination for a track producing agency

Requirement.  Given the references and an operational C2 system:

1.  Coordinate the changes in the agency's track production responsibilities as the tactical situation changes.
2.  Coordinate the agency's usage of data filters.

3. Coordinate the agency's usage of special points, lines, and areas on the Multi-Link Interface.
4. Perform the resolution of the following interface anomalies affecting the local agency:
   a. Dual designations
   b. Duplicate tracks
   c. Identification conflicts
   d. Category and environment conflicts

Performance Standard. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Prerequisite. 2800, 2809, 2810, 2811, 2812, 2814, 2820, 2850.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. C3 Agency's Pocket Checklist

8.7.13  COMMAND AND CONTROL SYSTEMS (C2SYS)

8.7.13.1  Purpose. To develop proficiency in utilizing the command and control systems used in DASC operations.

8.7.13.2  General

   Admin Notes. Command and control system events are located in the MAWTS-1 C3 Course Catalog in order to maintain standardized training across the MACCS. The table below lists all C2SYS events that are to be completed by DASC personnel position dependent. See the MAWTS-1 C3 Course Catalog for the events listed in the table below.

   Prerequisites. None.

   Crew Requirement. None.

| EVENT CODE | EVENT NAME | POSITION | PRE-REQS |
|---|---|---|---|
| C2SYS-2900 | Set up profile on TBMCS client | ACR, TRHR, TCDS, IDM, CC, HD, TAD, DC | NONE |
| C2SYS-2901 | Access TBMCS on line master help index | ACR, TRHR, TCDS, IDM, CC, HD, TAD, DC | 2900 |
| C2SYS-2902 | Utilize the TBMCS alerts service web application | TRHR, TCDS, IDM, CC, HD, TAD, DC | 2900, 2901 |
| C2SYS-2905 | Utilize the air tasking order airspace control order tool | TCDS, IDM, CC, HD, TAD, DC | 2900, 2901, 2902 |
| C2SYS-2910 | Operate ESTAT | ACR, TCDS, IDM, CC, HD, TAD, DC | 2900, 2901, 2902 |

| C2SYS-2911 | Operate WARP | ACR, TRHR, TCDS, IDM, CC, HD, TAD, DC | 2900, 2901, 2902 |
| C2SYS-2921 | Operate JTCW | IDM, CC, HD, TAD, DC | NONE |
| C2SYS-2940 | Set up and establish communications utilizing tactical chat | ACR, TRHR, TCDS, FSC, IDM, CC, HD, TAD, DC | NONE |

8.8  <u>MISSION SKILL TRAINING (3000)</u>

8.8.1  <u>Purpose</u>.  Mission Skill training consists of advanced events that provide training on processes within the DASC and develop the trainee's ability to perform their duties as a member of a DASC crew while conducting DASC operations.  Once required Mission Skills are completed, the trainee can be recommended to proceed to qualification evaluation or designation.

8.8.2  <u>General</u>

8.8.2.1  <u>Admin Notes</u>.  The following requirements apply to the Levels of DASC Operational Tempo, where applicable:

Level 1:  Minimum per hour: 2 F/W ATO missions, 2 R/W ATO missions, 2 immediate requests, and 1 fire mission.

Level 2:  Minimum per hour: 4 F/W ATO missions, 4 R/W ATO missions, 3 immediate requests, and 2 fire missions.

Level 3:  Minimum per hour: 6 F/W ATO missions, 6 R/W ATO missions, 4 immediate requests, and 3 fire missions.

Level 4:  Minimum per hour: 8 F/W ATO missions, 8 R/W ATO missions, 5 immediate requests, and 4 fire missions.

Level 5:  Minimum per hour: 10 F/W ATO missions, 10 R/W ATO missions, 6 immediate requests, and 5 fire missions.

8.8.2.2  <u>Prerequisite</u>.  Complete all Core Skill events required for the respective crew position.

8.8.2.3  <u>Stages</u>

| MISSION SKILL PHASE | | |
| --- | --- | --- |
| STAGE | PARAGRAPH | PAGE NUMBER |
| INFORMATION DISPLAY MANAGER (IDM) | 8.8.3 | 8-68 |
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8.8.3  <u>INFORMATION DISPLAY MANAGER (IDM)</u>

8.8.3.1 <u>Purpose</u>.  Develop proficiency in collecting, organizing, processing, and displaying information contained within the direct air support center.

8.8.3.2 <u>General</u>

 <u>Admin Notes</u>.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Mission Skill proficient Information Display Manager.

 <u>Prerequisites</u>.  8000.

 <u>Crew Requirement</u>.  None.

IDM-3000  4.0  *   B                         L/S

 <u>Goal</u>.  Level 1 - Perform as an Information Display Manager.

 <u>Requirement</u>.  Given a DASC, perform as an IDM demonstrating the ability to:

 1.  Find four, six and eight digit MGRS coordinates.
 2.  Find Lat/Long Coordinates.
 3.  Plot military symbology.
 4.  Monitor the use and transmission of tracks (special points, lines, and areas).
 5.  Validate the information exchange requirements over the Multi-TDL architecture.

 <u>Performance Standard</u>.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

 <u>Instructor</u>.  SI

 <u>Prerequisite.</u>  2250 **OR** 2300 **OR** 2350

 **AND**

 2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 6020, 6023, 8000.

 <u>Ordnance</u>.  None.

 <u>Range</u>.  None.

 <u>External Syllabus Support</u>.  None.

 <u>Reference</u>.
 1.  MCWP 3-25.5, DASC Handbook

IDM-3005  4.0  *   B                         L/S

 <u>Goal</u>.  Level 2 - Perform as an Information Display Manager.

 <u>Requirement</u>.  Given a DASC, perform as an IDM demonstrating the ability to:

 1.  Find four, six and eight digit MGRS coordinates.
 2.  Find Lat/Long Coordinates.
 3.  Plot military symbology.

4. Monitor the use and transmission of tracks (special points, lines, and areas).
5. Validate the information exchange requirements over the Multi-TDL architecture.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2250 **OR** 2300 **OR** 2350

**AND**

2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 6020, 6023, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

IDM-3010        4.0        1095        B, R, M                                                                    L/S

Goal.  Level 3 - Perform as an Information Display Manager.

Requirement.  Given a DASC, perform as an IDM demonstrating the ability to:

1. Find four, six and eight digit MGRS coordinates.
2. Find Lat/Long Coordinates.
3. Plot military symbology.
4. Monitor the use and transmission of tracks (special points, lines, and areas).
5. Validate the information exchange requirements over the Mult-TDL architecture.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2250 **OR** 2300 **OR** 2350

**AND**

2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 3005, 6020, 6023, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCWP 3-25.5, DASC Handbook

IDM-3015     4.0    *    B                                  L/S

Goal. Level 4 - Perform as an Information Display Manager.

Requirement. Given a DASC, perform as an IDM demonstrating the ability to:

1. Find four, six and eight digit MGRS coordinates.
2. Find Lat/Long Coordinates.
3. Plot military symbology.
4. Monitor the use and transmission of tracks (special points, lines, and areas).
5. Validate the information exchange requirements over the Multi-TDL architecture.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2250 **OR** 2300 **OR** 2350

**AND**

2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 3005, 3010, 6020, 6023, 8000.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

IDM-3020     4.0    *    B                                  L/S

Goal. Level 5 - Perform as an Information Display Manager.

Requirement. Given a DASC, perform as an IDM demonstrating the ability to:

1. Find four, six and eight digit MGRS coordinates.
2. Find Lat/Long Coordinates.
3. Plot military symbology.
4. Monitor the use and transmission of tracks (special points, lines, and areas).
5. Validate the information exchange requirements over the Multi-TDL architecture.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2250 **OR** 2300 **OR** 2350

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**AND**

2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 3005, 3010, 3015, 6020, 6023, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

### 8.8.4  TACTICAL AIR REQUEST/HELICOPTER REQUEST (TRHR)

8.8.4.1  Purpose.  Develop proficiency in receiving and processing requests for immediate direct air support.

8.8.4.2  General

Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient Tactical Air Request/Helicopter Request net operator.

Prerequisites.  8000.

Crew Requirements.  None.

TRHR-3050       4.0       *       B                                                                L/S

Goal.  Level 1 - Perform as a TAR/HR Net Operator.

Requirement.  Given a DASC, perform as a TAR/HR Net operator demonstrating the ability to:

1.  Receive and process immediate requests (JTAR, ASR, MEDEVAC),pass request numbers and complete forms.
2.  Pass mission data.
3.  Receive/pass Battle Damage Assessments (BDAs).
4.  Pass Air Defense Warning Condition/Weapons Control Status.
5.  Pass Threat updates.
6.  Authenticate/Encrypt/Decrypt, as required.
7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 2900, 2901, 2921, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TRHR-3055      4.0      *      B                                                                L/S

Goal.  Level 2 - Perform as a TAR/HR Net Operator.

Requirement.  Given a DASC, perform as a TAR/HR Net operator demonstrating the ability to:

1.  Receive and process immediate requests (JTAR, ASR, MEDEVAC),pass request numbers and complete forms.
2.  Pass mission data.
3.  Receive/pass Battle Damage Assessments (BDAs).
4.  Pass Air Defense Warning Condition/Weapons Control Status.
5.  Pass Threat updates.
6.  Authenticate/Encrypt/Decrypt, as required.
7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 3050, 2900, 2901, 2921, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TRHR-3060      4.0      1095      B, R, M                                                        L/S

Goal.  Level 3 - Perform as a TAR/HR Net Operator.

Requirement.  Given a DASC, perform as a TAR/HR Net operator demonstrating the ability to:

1.  Receive and process immediate requests (JTAR, ASR, MEDEVAC),pass request numbers and complete forms.
2.  Pass mission data.
3.  Receive/pass Battle Damage Assessments (BDAs).
4.  Pass Air Defense Warning Condition/Weapons Control Status.
5.  Pass Threat updates.
6.  Authenticate/Encrypt/Decrypt, as required.

7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 3050, 3055, 2900, 2901, 2921, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TRHR-3065        4.0        *        B                                                              L/S

Goal.  Level 4 - Perform as a TAR/HR Net Operator.

Requirement.  Given a DASC, perform as a TAR/HR Net operator demonstrating the ability to:

1.  Receive and process immediate requests (JTAR, ASR, MEDEVAC),pass request numbers and complete forms.
2.  Pass mission data.
3.  Receive/pass Battle Damage Assessments (BDAs).
4.  Pass Air Defense Warning Condition/Weapons Control Status.
5.  Pass Threat updates.
6.  Authenticate/Encrypt/Decrypt, as required.
7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 3050, 3055, 3060, 2900, 2901, 2921, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.

1.  MCWP 3-25.5, DASC Handbook

TRHR-3070      4.0      *      B                                                    L/S

    Goal.  Level 5 - Perform as a TAR/HR Net Operator.

    Requirement.  Given a DASC, perform as a TAR/HR Net operator demonstrating the ability to:

1.  Receive and process immediate requests (JTAR, ASR, MEDEVAC), pass request numbers and complete forms.
2.  Pass mission data.
3.  Receive/pass Battle Damage Assessments (BDAs).
4.  Pass Air Defense Warning Condition/Weapons Control Status.
5.  Pass Threat updates.
6.  Authenticate/Encrypt/Decrypt, as required.
7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

    Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

    Instructor.  SI

    Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 3050, 3055, 3060, 3065, 2900, 2901, 2921, 8000.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
1.  MCWP 3-25.5, DASC Handbook

8.8.5  TACTICAL AIR COMMAND/DIRECT AIR SUPPORT (TCDS)

8.8.5.1  Purpose.  Develop proficiency in coordinating the execution of direct air support missions with the TACC and other MACCS agencies.

8.8.5.2  General.

    Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient TAC/DAS Net Operator.

    Prerequisites.  8000.

    Crew Requirements.  None.

TCDS-3100      4.0      *      B                                                    L/S

    Goal.  Level 1 - Perform as a TAC/DAS Net Operator.

    Requirement.  Given a DASC, perform as a TAC/DAS Net operator demonstrating the ability to:

1. Read and understand USMTF Air Tasking Order (ATO).
2. Receive/request changes to ATO/Frag/SPINS.
3. Receive/request changes to ACO.
4. Pass friendly & enemy information.
5. Pass BDA/Mission Report (MISREP)/In Flight Report (IFREP).
6. Receive Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
7. Receive/request threat information.
8. Receive and pass weather updates & Pilot Reports (PIREPs).
9. Receive/ request status of air facilities.
10. Requests for immediate air support.
11. Pass a DASC Equipment Status report.
12. Perform Crew Brief, changeover brief and debrief.
13. Maintain crew position log.
14. Use appropriate communication procedures.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 8000.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

TCDS-3105      4.0      *      B                                                              L/S

Goal. Level 2 - Perform as a TAC/DAS Net Operator.

Requirement. Given a DASC, perform as a TAC/DAS Net operator demonstrating the ability to:

1. Read and understand USMTF Air Tasking Order (ATO).
2. Receive/request changes to ATO/Frag/SPINS.
3. Receive/request changes to ACO.
4. Pass friendly & enemy information.
5. Pass BDA/Mission Report (MISREP)/In Flight Report (IFREP).
6. Receive Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
7. Receive/request threat information.
8. Receive and pass weather updates & Pilot Reports (PIREPs).
9. Receive/ request status of air facilities.
10. Requests for immediate air support.
11. Pass a DASC Equipment Status report.
12. Perform Crew Brief, changeover brief and debrief.
13. Maintain crew position log.
14. Use appropriate communication procedures.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful

execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TCDS-3110        4.0        1095      B, R, M                                                                    L/S

Goal.  Level 3 - Perform as a TAC/DAS Net Operator.

Requirement.  Given a DASC, perform as a TAC/DAS Net operator demonstrating the ability to:

1.  Read and understand USMTF Air Tasking Order (ATO).
2.  Receive/request changes to ATO/Frag/SPINS.
3.  Receive/request changes to ACO.
4.  Pass friendly & enemy information.
5.  Pass BDA/Mission Report (MISREP)/In Flight Report (IFREP).
6.  Receive Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
7.  Receive/request threat information.
8.  Receive and pass weather updates & Pilot Reports (PIREPs).
9.  Receive/ request status of air facilities.
10.  Requests for immediate air support.
11.  Pass a DASC Equipment Status report.
12.  Perform Crew Brief, changeover brief and debrief.
13.  Maintain crew position log.
14.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 3105, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TCDS-3115     4.0     *     B                                                  L/S

    Goal.  Level 4 - Perform as a TAC/DAS Net Operator.

    Requirement.  Given a DASC, perform as a TAC/DAS Net operator demonstrating the ability to:

1. Read and understand USMTF Air Tasking Order (ATO).
2. Receive/request changes to ATO/Frag/SPINS.
3. Receive/request changes to ACO.
4. Pass friendly & enemy information.
5. Pass BDA/Mission Report (MISREP)/In Flight Report (IFREP).
6. Receive Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
7. Receive/request threat information.
8. Receive and pass weather updates & Pilot Reports (PIREPs).
9. Receive/ request status of air facilities.
10. Requests for immediate air support.
11. Pass a DASC Equipment Status report.
12. Perform Crew Brief, changeover brief and debrief.
13. Maintain crew position log.
14. Use appropriate communication procedures.

    Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

    Instructor.  SI

    Prerequisite.  2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 3105, 3110, 8000.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
1. MCWP 3-25.5, DASC Handbook

TCDS-3120     4.0     *     B                                                  L/S

    Goal.  Level 5 - Perform as a TAC/DAS Net Operator.

    Requirement.  Given a DASC, perform as a TAC/DAS Net operator demonstrating the ability to:

1. Read and understand USMTF Air Tasking Order (ATO).
2. Receive/request changes to ATO/Frag/SPINS.
3. Receive/request changes to ACO.
4. Pass friendly & enemy information.
5. Pass BDA/Mission Report (MISREP)/In Flight Report (IFREP).
6. Receive Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
7. Receive/request threat information.
8. Receive and pass weather updates & Pilot Reports (PIREPs).
9. Receive/ request status of air facilities.
10. Requests for immediate air support.
11. Pass a DASC Equipment Status report.

12. Perform Crew Brief, changeover brief and debrief.
13. Maintain crew position log.
14. Use appropriate communication procedures.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 3105, 3110, 3115, 8000.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

8.8.6 FIRE SUPPORT COORDINATION (FSC)

8.8.6.1 Purpose. To develop proficiency in coordinating the integration of aircraft employment with other supporting arms.

8.8.6.2 General.

Admin Notes. Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient FSC net operator.

Prerequisites. 8000.

Crew Requirements. None.

FSC-3150        4.0        *        B                                                          L/S

Goal. Level 1 - Perform as an FSC Net Operator.

Requirement. Given a DASC, perform as an FSC Net operator demonstrating the ability to:

1. Pass/receive friendly and enemy information.
2. Receive Fire Support positions, fire mission data and status.
3. Receive changes to Friendly Scheme of Maneuver
4. Process changes to Fire Support Coordination measures.
5. Pass and receive requests for changes to ATO/ACO/Frag/SPINS.
6. Pass/receive aircraft mission status.
7. Perform Crew Brief, changeover brief and debrief.
8. Maintain crew position log.
9. Use appropriate communication procedures.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

FSC-3155          4.0        *          B                                                                    L/S

Goal.  Level 2 - Perform as an FSC Net Operator.

Requirement.  Given a DASC, perform as an FSC Net operator demonstrating the ability to:

1.  Pass/receive friendly and enemy information.
2.  Receive Fire Support positions, fire mission data and status.
3.  Receive changes to Friendly Scheme of Maneuver
4.  Process changes to Fire Support Coordination measures.
5.  Pass and receive requests for changes to ATO/ACO/Frag/SPINS.
6.  Pass/receive aircraft mission status.
7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 8000, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

FSC-3160          4.0        1095      B, R, M                                                           L/S

Goal.  Level 3 - Perform as an FSC Net Operator.

Requirement.  Given a DASC, perform as an FSC Net operator demonstrating the ability to:

1.  Pass/receive friendly and enemy information.
2.  Receive Fire Support positions, fire mission data and status.

3.  Receive changes to Friendly Scheme of Maneuver
4.  Process changes to Fire Support Coordination measures.
5.  Pass and receive requests for changes to ATO/ACO/Frag/SPINS.
6.  Pass/receive aircraft mission status.
7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 3155, 8000, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

FSC-3165          4.0          *          B                                                    L/S

Goal.  Level 4 - Perform as an FSC Net Operator.

Requirement.  Given a DASC, perform as an FSC Net operator demonstrating the ability to:

1.  Pass/receive friendly and enemy information.
2.  Receive Fire Support positions, fire mission data and status.
3.  Receive changes to Friendly Scheme of Maneuver
4.  Process changes to Fire Support Coordination measures.
5.  Pass and receive requests for changes to ATO/ACO/Frag/SPINS.
6.  Pass/receive aircraft mission status.
7.  Perform Crew Brief, changeover brief and debrief.
8.  Maintain crew position log.
9.  Use appropriate communication procedures.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 3155, 3160, 8000, 8062.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCWP 3-25.5, DASC Handbook

FSC-3170       4.0       *       B                                                              L/S

    Goal.  Level 5 - Perform as an FSC Net Operator.

    Requirement.  Given a DASC, perform as an FSC Net operator demonstrating the ability to:

1. Pass/receive friendly and enemy information.
2. Receive Fire Support positions, fire mission data and status.
3. Receive changes to Friendly Scheme of Maneuver
4. Process changes to Fire Support Coordination measures.
5. Pass and receive requests for changes to ATO/ACO/Frag/SPINS.
6. Pass/receive aircraft mission status.
7. Perform Crew Brief, changeover brief and debrief.
8. Maintain crew position log.
9. Use appropriate communication procedures.

    Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

    Instructor.  SI

    Prerequisite.  2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 3155, 3160, 3165, 8000, 8062.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
1. MCWP 3-25.5, DASC Handbook

8.8.7  CREW CHIEF (CC)

8.8.7.1  Purpose.  To develop proficiency in crew and system management involved in direct air support operations.

8.8.7.2  General.

    Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient DASC Crew Chief.

    Prerequisites.  Complete ACPM 8040 and 8060 prior to completion of this stage.

    Crew Requirement.  DASC Crew.

CC-3200       4.0       *       B                                                              L/S

    Goal.  Level 1 - Perform as a DASC Crew Chief.

Requirement.  Given a scenario, supporting documentation, an operational DASC, higher, adjacent, and subordinate elements (live, virtual or constructive), manage a crew and associated systems to include the following at a minimum:

1.  Conduct pre watch brief, crew change brief and debrief.
2.  Manage Communication assets.
3.  Extract critical information from supporting documents.
4.  Maintain a significant event log.
5.  Review forms for completeness and accuracy.
6.  Ensure information processed by the DASC is complete and accurate and routed to the appropriate agency.
7.  Ensure situational displays are maintained accurately.
8.  File all forms and conduct an operational summary daily.
9.  Ensure equipment status reports are completed daily.
10.  Ensure crewmembers are being trained and evaluated.
11.  Conduct a passage of control as necessary.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.   MarineNet Course: Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CC-3205          4.0        *          B                                                              L/S

Goal.  Level 2 - Perform as a DASC Crew Chief.

Requirement.  Given a scenario, supporting documentation, an operational DASC, higher, adjacent, and subordinate elements (live, virtual or constructive), manage a crew and associated systems to include the following at a minimum:

1.  Conduct pre watch brief, crew change brief and debrief.
2.  Manage Communication assets.
3.  Extract critical information from supporting documents.
4.  Maintain a significant event log.
5.  Review forms for completeness and accuracy.
6.  Ensure information processed by the DASC is complete and accurate and routed to the appropriate agency.
7.  Ensure situational displays are maintained accurately.

8.  File all forms and conduct an operational summary daily.
9.  Ensure equipment status reports are completed daily.
10.  Ensure crewmembers are being trained and evaluated.
11.  Conduct a passage of control as necessary.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CC-3210         4.0       1095     B, R, M                                                                    L/S

Goal.  Level 3 - Perform as a DASC Crew Chief.

Requirement.  Given a scenario, supporting documentation, an operational DASC, higher, adjacent, and subordinate elements (live, virtual or constructive), manage a crew and associated systems to include the following at a minimum:

1.  Conduct pre watch brief, crew change brief and debrief.
2.  Manage Communication assets.
3.  Extract critical information from supporting documents.
4.  Maintain a significant event log.
5.  Review forms for completeness and accuracy.
6.  Ensure information processed by the DASC is complete and accurate and routed to the appropriate agency.
7.  Ensure situational displays are maintained accurately.
8.  File all forms and conduct an operational summary daily.
9.  Ensure equipment status reports are completed daily.
10.  Ensure crewmembers are being trained and evaluated.
11.  Conduct a passage of control as necessary.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious

Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CC-3215          4.0        *          B                                                                              L/S

Goal.  Level 4 - Perform as a DASC Crew Chief.

Requirement.  Given a scenario, supporting documentation, an operational DASC, higher, adjacent, and subordinate elements (live, virtual or constructive), manage a crew and associated systems to include the following at a minimum:

1.  Conduct pre watch brief, crew change brief and debrief.
2.  Manage Communication assets.
3.  Extract critical information from supporting documents.
4.  Maintain a significant event log.
5.  Review forms for completeness and accuracy.
6.  Ensure information processed by the DASC is complete and accurate and routed to the appropriate agency.
7.  Ensure situational displays are maintained accurately.
8.  File all forms and conduct an operational summary daily.
9.  Ensure equipment status reports are completed daily.
10.  Ensure crewmembers are being trained and evaluated.
11.  Conduct a passage of control as necessary.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CC-3220          4.0      *        B                                                              L/S

Goal.  Level 5 - Perform as a DASC Crew Chief.

Requirement.  Given a scenario, supporting documentation, an operational DASC, higher, adjacent, and subordinate elements (live, virtual or constructive), manage a crew and associated systems to include the following at a minimum:

1.  Conduct pre watch brief, crew change brief and debrief.
2.  Manage Communication assets.
3.  Extract critical information from supporting documents.
4.  Maintain a significant event log.
5.  Review forms for completeness and accuracy.
6.  Ensure information processed by the DASC is complete and accurate and routed to the appropriate agency.
7.  Ensure situational displays are maintained accurately.
8.  File all forms and conduct an operational summary daily.
9.  Ensure equipment status reports are completed daily.
10.  Ensure crewmembers are being trained and evaluated.
11.  Conduct a passage of control as necessary.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

8.8.8  DASC Chief (DC)

8.8.8.1  Purpose.  To develop technical expertise and proficiency required for DASC employment, integration into the MACCS, coordination with elements of the MAGTF, and planning for and management of air support operations.  At the conclusion of this stage of training individuals may be designated by the commanding officer as Direct Air Support Center (DASC) Chiefs.

8.8.8.2  General

Admin Notes.  None.

Prerequisites.  Complete ACPM-8080 prior to completing this stage of training.

Crew Requirement.  DASC Detachment (multiple DASC Crews).

DC-3250          8.0      *      B                                                                    L/S

Goal.  Conduct the duties of a DASC Chief during a field deployment/exercise.

Requirement.  Given a Warning Order, Deployment Order and/or MCTEEP Exercise, a T/O and T/E, and other planning documents plan for and execute a MEB or MEF-level DASC deployment of at least five (5) days in length. Conduct planning and supervise execution to include the following items:

1.  Conduct Mission Analysis.
2.  Review OPORDs and Concept of Operations.
3.  Coordinate logistics/personnel and equipment requirements.
4.  Participate as part of a site selection/survey.
5.  Assist in producing the LOI.
6.  Coordinate with other sections to identify, create, and submit (as applicable):
    a.  Training Objectives.
    b.  Personnel Roster.
    c.  Equipment Density List/Bill of Materials (BOM) Request.
    d.  DASC Information Exchange requirements.
7.  Coordinate with external agencies as required:
    a.  Intra-squadron.
    b.  MACCS Agencies.
    c.  Fire Support Coordination Center (FSCC) & GCE.
    d.  Joint C4I Agencies.
    e.  Patient Evaluation Team (PET).
8.  Conduct gear/equipment inspection.
9.  Supervise embarkation.
10.  Maintain accountability of DASC personnel.
11.  Inspect physical security of the site.
12.  Inspect security of classified areas.
13.  Supervise training of DASC personnel.
14.  Assist in compiling after action items.

Performance Standard.  Conduct this event in compliance with local training guides, SOP and governing directives. This event can be completed locally as the execution phases of DC-2550 provided the DASC Drill incorporates movement away from the Squadron.

Instructor.  SI

Prerequisite.  MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2500, 2505, 2510, 2515, 2525, 2530, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, 8060, 8060.

Ordnance.  None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. MCWP 5-1, Marine Corps Planning Process (MCPP)
3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual
4. MCRP 3-0A, Unit Training Management (UTM) Guide
5. MCRP 3-0B, How to Conduct Training

8.8.9  AIR CONTROL RECORDER (ACR)

8.8.9.1  Purpose. Develop proficiency in maintaining the situational display used in tracking ATO mission information.

8.8.9.2  General

   Admin Notes. Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Mission Skill proficient  Air Control Recorder.

   Prerequisites. 8000.

   Crew Requirements. None.

ACR-3270         4.0        *          B                                                      L/S

   Goal. Level 1 - Perform as an Air Control Recorder.

   Requirement. Given a DASC, perform the following:

   1. Track location of all assigned A/C.
   2. Record BHA / MISREPs / PIREPs / IFREPS.
   3. Identify applicable active ACMs / FSCMs.
   4. Identify applicable active air threats.
   5. Track and record assigned routing for active missions.
   6. Track and record applicable immediate requests.
   7. Track and update the execution of the ATO.
   8. Track status of applicable air facilities.

   Performance Standard. Perform the requirement to a proficient level (correct, efficient, and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

   Instructor. SI

   Prerequisite. 2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 8000, 8041.

   Ordnance. None.

   Range. None.

   External Syllabus Support. None.

   Reference.

     1.  MILSTD 2525C, Operational Terms and Graphics
     2.  MCWP 3-25.5, DASC Handbook

ACR-3275      4.0     *     B                                          L/S

     <u>Goal</u>.  Level 2 - Perform as an Air Control Recorder.

     <u>Requirement</u>.  Given a DASC, perform the following:

     1.  Track location of all assigned A/C.
     2.  Record BHA / MISREPs / PIREPs / IFREPS.
     3.  Identify applicable active ACMs / FSCMs.
     4.  Identify applicable active air threats.
     5.  Track and record assigned routing for active missions.
     6.  Track and record applicable immediate requests.
     7.  Track and update the execution of the ATO.
     8.  Track status of applicable air facilities.

     <u>Performance Standard</u>.  Perform the requirement to a proficient level (correct, efficient, and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

     <u>Instructor</u>.  SI

     <u>Prerequisite</u>.  2250 **OR** 2300 **OR** 2350

     **AND**

     2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, 8000, 8041.

     <u>Ordnance</u>.  None.

     <u>Range</u>.  None.

     <u>External Syllabus Support</u>.  None.

     <u>Reference</u>.
     1.  MILSTD 2525C, Operational Terms and Graphics
     2.  MCWP 3-25.5, DASC Handbook

ACR-3280      4.0     1095     B, R, M                                L/S

     <u>Goal</u>.  Level 3 - Perform as an Air Control Recorder.

     <u>Requirement</u>.  Given a DASC, perform the following:

     1.  Track location of all assigned A/C.
     2.  Record BHA / MISREPs / PIREPs / IFREPS.
     3.  Identify applicable active ACMs / FSCMs.
     4.  Identify applicable active air threats.
     5.  Track and record assigned routing for active missions.
     6.  Track and record applicable immediate requests.
     7.  Track and update the execution of the ATO.
     8.  Track status of applicable air facilities.

Performance Standard. Perform the requirement to a proficient level (correct, efficient, and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2250 **OR** 2300 **OR** 2350

**AND**

2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, 3275, 8000, 8041.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MILSTD 2525C, Operational Terms and Graphics
2. MCWP 3-25.5, DASC Handbook

ACR-3285        4.0        *        B                                                      L/S

Goal. Level 4 - Perform as an Air Control Recorder.

Requirement. Given a DASC, perform the following:

1. Track location of all assigned A/C.
2. Record BHA / MISREPs / PIREPs / IFREPS.
3. Identify applicable active ACMs / FSCMs.
4. Identify applicable active air threats.
5. Track and record assigned routing for active missions.
6. Track and record applicable immediate requests.
7. Track and update the execution of the ATO.
8. Track status of applicable air facilities.

Performance Standard. Perform the requirement to a proficient level (correct, efficient, and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI

Prerequisite. 2250 **OR** 2300 **OR** 2350

**AND**

2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, 3275, 3280, 8000, 8041.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MILSTD 2525C, Operational Terms and Graphics
2. MCWP 3-25.5, DASC Handbook

ACR-3290 4.0 * B         L/S

   Goal. Level 5 - Perform as an Air Control Recorder.

   Requirement. Given a DASC, perform the following:

   1. Track location of all assigned A/C.
   2. Record BHA / MISREPs / PIREPs / IFREPS.
   3. Identify applicable active ACMs / FSCMs.
   4. Identify applicable active air threats.
   5. Track and record assigned routing for active missions.
   6. Track and record applicable immediate requests.
   7. Track and update the execution of the ATO.
   8. Track status of applicable air facilities.

   Performance Standard. Perform the requirement to a proficient level (correct, efficient, and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

   Instructor. SI

   Prerequisite. 2250 **OR** 2300 **OR** 2350

   **AND**

   2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, 3275, 3280, 3285, 8000, 8041.

   Ordnance. None.

   Range. None.

   External Syllabus Support. None.

   Reference.
   1. MILSTD 2525C, Operational Terms and Graphics
   2. MCWP 3-25.5, DASC Handbook

8.9  CORE PLUS TRAINING (4000)

8.9.1 Purpose. Core Plus Skills are intended to train the individual to utilize the tools, systems and/or procedures which have a low probability of execution or are theater specific.

8.9.2 General

8.9.2.1 Admin Notes. The following requirements apply to the Levels of DASC Operational Tempo, where applicable:

Level 1:  Minimum per hour: 2 F/W ATO missions, 2 R/W ATO missions, 2 immediate requests, and 1 fire mission.

Level 2:  Minimum per hour: 4 F/W ATO missions, 4 R/W ATO missions, 3 immediate requests, and 2 fire missions.

Level 3:  Minimum per hour: 6 F/W ATO missions, 6 R/W ATO missions, 4 immediate requests, and 3 fire missions.

Level 4:  Minimum per hour: 8 F/W ATO missions, 8 R/W ATO missions, 5 immediate requests, and 4 fire missions.

Level 5:  Minimum per hour: 10 F/W ATO missions, 10 R/W ATO missions, 6 immediate requests, and 5 fire missions.

8.9.2.2  Prerequisite.  None.

8.9.2.3  Stages.

| CORE PLUS PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| AIR SUPPORT OPERATOR (ASO) | 8.9.3 | 8-91 |
| PROCEDURAL CONTROL (CTRL) | 8.9.4 | 8-92 |
| HELICOPTER DIRECTOR (HD) | 8.9.5 | 8-96 |
| TACTICAL AIR DIRECTOR (TAD) | 8.9.6 | 8-100 |
| FAMILIARIZATION (FAM) | 8.9.7 | 8-104 |
| TACTICAL DATA LINKS(TDL) | 8.9.8 | 8-106 |
| COMMAND AND CONTROL SYSTEMS (C2SYS) | 8.9.9 | 8-114 |

8.9.3  AIR SUPPORT OPERATOR (ASO)

8.9.3.1  Purpose.  To develop proficiency in crew coordination and functioning associated with direct air support operations.

8.9.3.2  General

Admin Notes.  None.

Prerequisites.  8000, 8020, 8040.

Crew Requirement.  Core skill proficient DASC Crew.

ASO-4100          4.0          *          B                                                                    S/L

Goal.  Perform digital air control.

Requirement.  Given a C2 tactical data system which includes an indirect Link 16 interface, and an ATO, demonstrate the following:

1. Maintain a list of all C2 interface unit addresses.
2. Associate a friendly air track with the appropriate air tasking order mission.
3. Track the data link capabilities of each ATO mission.
4. Send a TDL free text message to an aircraft.
5. Observe the kinematic properties for a track.
6. Given an ATO mission, hook that specific track.
7. Plot an aircraft routing using track options.
8. Plot an aircraft working area using track options.

9.  Given a friendly air track, determine the controlling unit for that track.
10. Conduct a digital handover with another C2 interface unit.
11. Report the DASC as the controlling unit for an uncontrolled track on the interface.
12. Provide J series message routing to a Link 16 capable aircraft.
13. Provide J series message tasking to a Link 16 capable aircraft.
14. Pair a friendly track with its objective(s) via J series message.
15. Send a J12.0 message to capable aircraft.

Performance Standard.  With the aid of reference, complete the listed requirements. Minor errors corrected by the Marine are acceptable.

Prerequisite.  2809, 2811, 8000, 8020, 8040.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

## 8.9.4 PROCEDURAL CONTROL (CTRL)

8.9.4.1 Purpose.  To develop proficiency in procedurally controlling manned and unmanned aircraft.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Core Skill proficient DASC Controller.

8.9.4.2 General

Admin Notes.  Live or notional aircraft are acceptable, however a minimum of ten hours or three events must be completed with live aircraft.

Prerequisites.  8000, 8020, 8040.

Crew Requirement.  Core skill proficient DASC Crew.

CTRL-4200      4.0      *      B                                                        S/L

Goal.  Level 1 - Control FW or RW aircraft.

Requirement.  Given a scenario, supporting documentation, an ASE or DASC, conduct the following tasks while performing as a member of a DASC crew.

1.  Conduct an HD or TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected

by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2045, 2050,2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 4220, 4225, 4230, 6020, 6023, 8000, 8020, 8040, 8062, 8063.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CTRL-4205      4.0      *      B                                                      L/S

Goal.  Level 2 - Control FW or RW aircraft.

Requirement.  Given a scenario, supporting documentation, an ASE or DASC, conduct the following tasks while performing as a member of a DASC crew.

1.  Conduct an HD or TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 4200, 4220, 4225, 4230, 6020, 6023, 8000, 8020, 8040, 8062, 8063.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.

    1.  MCWP 3-25.5, DASC Handbook

CTRL-4210     4.0     *     B                                               L/S

    Goal.  Level 3 - Control FW or RW aircraft.

    Requirement.  Given a scenario, supporting documentation, an ASE or DASC, conduct the following tasks while performing as a member of a DASC crew.
    1.  Conduct an HD or TAD Crew Brief and Debrief.
    2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
    3.  Procedurally control the aircraft.
    4.  Route the aircraft.
    5.  Divert the aircraft.
    6.  Maintain a complete and accurate logbook.
    7.  Pass and receive immediate requests.
    8.  Demonstrate proper processing of all received information and routing and passing information within the system.

    Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

    Instructor.  BI

    Prerequisite.  2045, 2050,2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4225, 4230, 6020, 6023, 8000, 8020, 8040, 8062, 8063.

    Ordnance.  None.

    Range.  None.

    External Syllabus Support.  None.

    Reference.
    1.  MCWP 3-25.5, DASC Handbook

CTRL-4220     2.0     *     B                                               L

    Goal.  Extract critical information from the ATO, ACO, and SPINS documents.

    Requirement.  Given an ATO, ACO, SPINS, Operations Order and references, extract key information necessary for the control of fixed-wing, rotary-wing, and unmanned aircraft as follows:

    1.  State the purpose and use of each document.
    2.  Identify the agencies that use each document.
    3.  Extract ATO information necessary to:
       a.  Control.
       b.  Route.
       c.  Divert
    4.  Document extracted control information in RIO Log.
    5.  Extract ACO information.
    6.  Extract information pertinent to:
       a.  Frequencies.

b.  Specific instructions for any deviations from OpOrd and/or ACO.

Performance Standard.  Complete the required items without error.

Instructor.  SI, WTI

Prerequisite.  8000, 8020, 8040

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 6-0, Communications Systems
2.  MCWP 3-25, Control of Aircraft and Missiles
3.  MCWP 3-25.5, DASC Handbook
4.  MCWP 3-40.1, MAGTF C2
5.  MCWP 3-40.2, Information Management
6.  MCWP 3-40.3, MAGTF Communications System
7.  DISA USMTF Baseline

CTRL-4225    4.0         *        B                                                    S

Goal.  Perform as a Tactical Air Director

Requirement.  In a DASC, perform the following:

1.  Parse the ATO to create accurate Soft Frags.
2.  Route aircraft in accordance with the ATO.
3.  De-conflict aircraft with surface to air threats, other aircraft, and combined arms fires.
4.  Use proper terminology associated with procedural control.
5.  Use the DASC CONTROL BRIEF brief to RIO fixed-wing aircraft.
6.  Accurately control common fixed-wing missions:
    a.  CAS
    b.  XCAS
    c.  FAC(A)
    d.  Reconnaissance
    e.  Refueling
    f.  SCAR
    g.  UAS
7.  Pass and receive air support requests to/from fixed-wing aircraft.
8.  Give a crew brief.

Performance Standard.  Perform the requirement to a proficient level (Correct, efficient, and skillful execution of tasks without hesitation, requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  4220, 8000, 8020, 8040.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

CTRL-4230    4.0        *        B                                                              S

Goal.  Perform as a Helicopter Director.

Requirement.  In a DASC perform the following:

1.  Parse the ATO to create accurate Soft Frags.
2.  Route aircraft in accordance with the ATO.
3.  De-conflict aircraft with surface to air threats, other aircraft, and combined arms fires.
4.  Use proper terminology associated with procedural control.
5.  Use the DASC CONTROL BRIEF to RIO rotary-wing aircraft.
6.  Accurately control common rotary-wing missions:
    a.  CASEVAC
    b.  CAS
    c.  ASC(A)
    d.  Reconnaissance
    e.  Troop insert
    f.  Logistics
7.  Pass and receive air support requests to/from rotary-wing aircraft.
8.  Give a crew brief.

Performance Standard.  Perform the requirement to a proficient level (Correct, efficient, and skillful execution of tasks without hesitation, requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  4220, 8000, 8020, 8040.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.5, DASC Handbook

8.9.5  HELICOPTER DIRECTOR (HD)

8.9.5.1  Purpose.  To develop proficiency in procedurally controlling manned and unmanned aircraft.

8.9.5.2  General

Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Mission Skill proficient DASC Helicopter Director.

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818,

2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4220, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Crew Requirements.  A core skill proficient ASE or DASC crew.

HD-4300          4.0      *      B                                                                S/L

Goal.  Level 1 - Control RW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC HD to include:

1.  Conduct an HD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate HD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

HD-4305          4.0      *      B                                                                S/L

Goal.  Level 2 - Control RW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC HD to include:

1.  Conduct an HD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.

3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate HD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

HD-4310          4.0          1095          B, R, M                                                                S/L

Goal. Level 3 - Control RW aircraft.

Requirement. Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate HD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4305, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

HD-4315          4.0        *          B                                                                                    S/L

Goal. Level 4 - Control RW aircraft.

Requirement. Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate HD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4305, 4310, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.

1. MCWP 3-25.5, DASC Handbook

HD-4320      4.0     *      B                                                                S/L

    Goal.  Level 5 - Control RW aircraft.

    Requirement.  Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate HD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

    Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

    Instructor.  SI

    Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4305, 4310, 4315, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

    Ordnance.  None.

    Range.  Range space capable of hosting ground and air fires.

    External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

    Reference.
1. MCWP 3-25.5, DASC Handbook

8.9.6 TACTICAL AIR DIRECTOR (TAD)

8.9.6.1 Purpose.  To develop proficiency in procedurally controlling manned and unmanned aircraft.

8.9.6.2 General

    Admin Notes.  Upon completion of this portion of the training syllabus the Air Support Operations Operator will have attained all skills required to be considered a Mission Skill proficient DASC Tactical Air Director (TAD).

    Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020,

3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4220, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Crew Requirements.  A core skill proficient ASE or DASC crew.

TAD-4350        4.0        *        B                                                                        S/L

Goal.  Level 1 - Control FW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC TAD to include:

1.  Conduct a TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.
4.  Route the aircraft.
5.  Divert the aircraft.
6.  Maintain a complete and accurate TAD logbook.
7.  Pass and receive immediate requests.
8.  Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard.  Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor).  Minor errors corrected by the trainee are acceptable.  This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor.  SI

Prerequisite.  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance.  None.

Range.  Range space capable of hosting ground and air fires.

External Syllabus Support.  S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1.  MCWP 3-25.5, DASC Handbook

TAD-4355        4.0        *        B                                                                        S/L

Goal.  Level 2 - Control FW aircraft.

Requirement.  Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC TAD to include:

1.  Conduct a TAD Crew Brief and Debrief.
2.  Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3.  Procedurally control the aircraft.

4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate TAD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

TAD-4360          4.0          1095          B, R, M                                                             S/L

Goal. Level 3 - Control FW aircraft.

Requirement. Given a scenario, supporting documentation, and an ASE or DASC, conduct the duties of a DASC TAD to include:

1. Conduct a TAD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate TAD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205,

2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4355, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

TAD-4365        4.0        *        B                                                        S/L

Goal. Level 4 - Control FW aircraft.

Requirement. Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC TAD to include:

1. Conduct a TAD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate TAD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4355, 4360, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

TAD-4370    4.0    *    B                                                       S/L

Goal. Level 5 - Control FW aircraft.

Requirement. Given a scenario, supporting documentation, and a DASC, conduct the duties of a DASC TAD to include:

1. Conduct a TAD Crew Brief and Debrief.
2. Provide a DASC CONTROL BRIEF using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate TAD logbook.
7. Pass and receive immediate requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. This event should include the integration of fires with the use of FCSMs and ACMs in the DASC controlled airspace.

Instructor. SI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4355, 4360, 4365, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-2, S-6, air and fire support missions as defined by the operational tempo, digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook

8.9.7 FAMILIARIZATION (FAM)

8.9.7.1 Purpose. To facilitate the understanding of DASC operations through the familiarization with and observation of agencies/ organizations external to the DASC involved in aviation operations.

8.9.7.2 General

Admin Notes. The familiarization events contained in this phase are intended to complement the MACCS (8000) Stage and the MAGTF (8060) Stage of the ACPM. Each event is to be conducted as a tour of an operational facility under the guidance of a DASC SI or appropriate agency equivalent. Successful completion of the appropriate agency event contained in the ACPM.

Prerequisite. None.

Crew Requirement. None.

FAM-4400        2.0        *        B_____L

    Goal. Observe the configuration and operation of a LAAD Battalion.

    Requirement. Tour the various configurations of the LAAD Bn at section, platoon, and battery level.

    Performance Standard. Complete a tour of a LAAD Bn.

    Instructor. SI

    Prerequisite. 8006.

    Ordnance. None.

    Range. None.

    External Syllabus Support. LAAD Bn.

    Reference.
    1. MCWP 3-25.10, LAAD Battalion Handbook

FAM-4410        2.0        *        B_____L

    Goal. Observe the configuration and operation of a Supporting Arms Coordination Center.

    Requirement. Observe a SACC.

    Performance Standard. Complete a tour of a SACC.

    Instructor. SI

    Prerequisite. 8001, 8062, 8063, 8065.

    Ordnance. None.

    Range. None.

    External Syllabus Support. Operational SACC.

    Reference.
    1. JP 3-02, Amphibious Operations

FAM-4415        2.0        *        B_____L

    Goal. Observe the configuration and operation of a Navy Tactical Air Control Center/Helicopter Coordination Section (NTACC/HCS).

    Requirement. Observe an operational NTACC/HCS.

    Performance Standard. Complete a tour of a NTACC/HCS.

    Instructor. SI

    Prerequisite. 8001, 8062, 8063, 8065.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  JP 3-02, Amphibious Operations

FAM-4420          2.0          *          B                                                              L

Goal.  Observe tactical Marine Air Traffic Control.

Requirement.  While observing tactical Marine Air Traffic Control, discuss the positions, equipment, and operations in relation to the DASC.

Performance Standard.  Complete a tour of tactical Marine Air Traffic Control.

Instructor.  SI

Prerequisite.  8001, 8003, 8005.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  MCWP 3-25.8, MATCD Handbook

8.9.8  TACTICAL DATA LINK (TDL)

8.9.8.1  Purpose.  To develop DASC experience in establishing and operating advanced datalinks.

8.9.8.2  General

Admin Notes.  Tactical Data Link events are located in the MAWTS-1 C3 Course Catalog in order to maintain standardized training across the MACCS.  The below listed TDL events are to be completed by DASC personnel.

Prerequisite.  None.

Crew Requirement.  None.

TDL-4813          1.0          *          B                                                              G

Goal.  Identify tactical data link orders associated with Network Participating Group (NPG) 8 and 9.

Requirement.  With the aid of reference, perform the following:

1.  State the purpose of the J9.0 message.
2.  State the purpose of the J12.0 Message.
3.  State the purpose of the J10.3 message.
4.  State the purpose of the J10.2 message..

5. State the purpose of the J12.6 message.
6. State the relationship between the J9.0 and the J12.0.
7. State the OPTASK LINK requirements for using NPG-9.
8. Describe the handshake process and corresponding J series messages that are used while conducting Air Control (NPG-9).

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-4815          1.0       *          B                                                        G

Goal. State the Characteristics of Link 11.

Requirement. Given the reference:

1. Define the following Link 11 station modes of operation:
    a. Net Control Station (NCS).
    b. Picket.
    c. Radio Silence
2. Define the following Link 11 net modes of operation:
    a. Roll Call.
    b. Broadcast (Long).
    c. Short Broadcast.
    d. Net Sync.
    e. Net Test.
3. State the purpose of the following Link 11 waveforms:
    a. Conventional Link 11 Waveform (CLEW).
    b. Single Tone Link 11 Waveform (SLEW).
4. Describe the characteristics of the following Link 11 data encryption modes:
    a. A1.
    b. A2.
    c. B.
    d. Plain Text.
5. Define Data Link Reference Point, and state typical usage criteria and limitations.
6. Describe Link 11 Gridlock.
7. Define Net Cycle Time.

Performance Standard. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor. BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-4816      1.0      *      B                                                      G

Goal.  State the characteristics of Link 11B.

Requirement.  Given the reference:

1. State the communications mediums that Link 11B can be transmitted over.
2. State the most common encryption devices used for Link 11B.
3. State the purpose of "strapping," with respect to Link 11B encryption devices.
4. Define the following Link 11B data transmission modes:
    a.  Limited Transmission of Data (LTD) mode.
    b.  Full Transmission of Data (FTD) mode.
5. Define Data Link Reference point, and state typical usage criteria and limitations per the Joint Multi-TDL Operating Procedures.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

TDL-4817      3.0      *      B                                                      G

Goal.  Define terms associated with Link 16.

Requirement.  Given references, define:

1. Active Synchronization.
2. Backlink.
3. Command and Control JTIDS/MIDS Unit (C2 JU).
4. Conditional Radio Silence Mode.
5. Contention Access Mode.
6. Continuation Word.

7.  Dedicated Access Mode
8.  Donor.
9.  Dynamic Network Management.
10. Extension Word.
11. Geodetic Position Quality.
12. Header Message.
13. Host System.
14. Initial Entry.
15. Initial Entry JTIDS/MIDS Unit (IEJU).
16. Initial Word.
17. Machine Receipt
18. Multifunctional Information Distribution System (MIDS).
19. Minimum Implementation.
20. Mode 1, 2, and 4 Communications.
21. Net Number.
22. Network Participation Group.
23. Network Time Reference.
24. Non-Command and Control JTIDS/MIDS Unit (NonC2 JU)
25. Pool
26. Passive Synchronization.
27. Recurrence Rate.
28. Reed-Solomon Code.
29. Relative Position Quality.
30. Relay Block.
31. Round-Trip Timing (RTT).
32. Stacked Net.
33. Synchronization.
34. Time (System & Terminal).
35. Time Quality (QT).
36. Time Slot.
37. Time Slot Reallocation Access Mode.

Performance Standard.  Without the aid of reference, state (verbally or written) the required items.  Minor errors corrected by the trainee are acceptable.

Instructor.  BI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-4823          1.0        *          B                                                          G

Goal.  State the characteristics of the Variable Message Format (VMF).

Requirement.  Given the reference, explain:

1.  The purpose of Variable Message Format (VMF) message.

2. The characteristics of VMF message.
3. VMF message functional area.
4. Transmission medium options used to exchange VMF message.
6. How URNs are assigned
7. The purpose of the K01.2 Unit Reference Query/Response message.
8. Position reporting requirements of VMF units
9. The purpose of a K05.1 Position Report
10. The purpose of a K04.1 Observation Report
11. VMF multi-cast groups
12. K Series and J Series data forwarding

Performance Standard.  With the aid of reference, state (verbally or written) the required items.

Instructor.  SI

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. CJCSM 3115.01, Joint Data Network Operations
2. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
3. MIL-STD-188-220, Digital Message Transfer Device Subsystems
4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
6. MIL-STD-6017, VMF Interface Standard
7. MIL-STD-6020, Data Forwarding Between TDLs

TDL-4830        2.0        *        B                                                                G

Goal.  Operate an Air Defense Systems Integrator (ADSI).

Requirement.  Given an OPTASK LINK and operational ADSI; using the TSD:

1. Inspect/Configure own unit configuration to include:
    a. JU Address.
    b. PPLI Message Format.
    c. Unit Position Source.
    d. Unit Position Location.
    e. Elevation.
    f. J13.5 System Status.
2. Configure DERG for monitoring and recording.
3. Configure the ADSI for the following data links:
    a. Link 11.
    b. Link 11B.
    c. Link 16.
    d. JREAP A.
    e. JREAP B.
    f. JREAP C (TCP/IP and UDP/IP).
4. Configure filters IAW the OPTASK LINK.
5. Inspect link configurations.
6. Utilize the forwarding matrix to transmit data over the appropriate link IAW the forwarding plan.

7.  Utilize the forwarding matrix to receive data over the appropriate link.

Performance Standard.  Complete the requirements IAW the references.

Instructor.  SI

Prerequisite.  None.

Ordnance.  None

Range.  None

External Syllabus Support.  None

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  ADSI Version 14.1.1 Software Users Guide
3.  ADSI Version 14.1.1 Installation and Configuration Guide

TDL-4832        4.0        *        B                                                    L

Goal.  Operate Link 11.

Requirement.  Given the references, operational documents, and a C2 system:

1.  Extract required information from the OPTASK LINK.
2.  Input the required database entries.
3.  Enter and activate filters.
4.  Verify equipment is correctly configured.
5.  Verify cryptographic equipment is keyed.
6.  Enter / exit link IAW published procedures.
8.  Operate in the following modes:
    a.  Radio Silent.
    b.  Net Control Station (NCS).
    c.  Picket

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2814, 2820, 4815.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual

TDL-4836        8.0        *        B                                                    L

Goal.  Operate Link 16.

Requirement.  Given an OPTASK LINK, Network Description Document (NDD), and a C2 system:

1.  Extract required information from the OPTASK LINK.
2.  Enter required database entries per the OPTASK LINK.
3.  Enter and activate filters per the OPTASK LINK.
4.  Identify Stacked Net assignments for voice and air control.
5.  Enter and valid stacked net assignments in the database.
6.  Obtain the Link 16 initialization data load (IDL) from the USMC Network Design Facility.
7.  Perform Link 16 pulse deconfliction.
8.  Verify equipment is configured correctly.
9.  Verify the cryptographic equipment is keyed.
10.  Load the appropriate time.
11.  Load the IDL.
12.  Enter/exit link IAW published procedures.
13.  Achieve fine synchronization with another interface unit.
14.  Operate in/as the following:
    a.  Radio Silent or data silent.
    b.  Network Time Reference (NTR).
    c.  Initial Entry JTIDS Unit (IEJU).

Performance Standard.  Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.

Instructor.  SI

Prerequisite.  2800, 2814, 2818, 2820, 4817.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3.  C2 System Technical Manual
4.  USMC NDF Website

TDL-4838        8.0        *        B                                                        L

Goal.  Operate JREAP A.

Requirement.  Given a MIL-STD-3011 compliant system, SATCOM radio assets, Satellite Access Authorization (SAA), OPTASK LINK, and assistance from maintenance and communications sections:

1.  Extract satellite communications information from the SAA.
2.  Verify proper radio configuration for JREAP A operations.
3.  Verify cryptographic equipment is keyed.
4.  Verify JREAP A equipment is connected.
5.  Verify the SATCOM antenna has the correct elevation and azimuth.
6.  Build the JREAP A link in the MIL-STD-3011 compliant system.
7.  Enter and activate filters in the MIL-STD-3011 compliant system.
8.  Enable and disable the correct link connections.

9. Enter/exit link IAW published procedures.
10. Demonstrate the ability to operate in the following modes:
    a. Network Participant.
    b. Network Controller.
    c. Network Listener.

Performance Standard. Successfully exchange tracks.

Instructor. SI

Prerequisite. 2800, 2814, 2819, 2820.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual
4. SATCOM Radio Technical Manual
5. MIL-STD-3011, JREAP Interface Standard

TDL-4840    8.0    *    B                                   L

Goal. Operate JREAP B.

Requirement. Given a MIL-STD-3011 compliant system, a serial line encryption device, and assistance from maintenance and communications sections:

1. Verify the serial line encryption device is configured for JREAP B operations.
2. Verify the serial line encryption device is connected to the MIL-STD-3011 compliant system and telephone line.
3. Build the JREAP B link in the MIL-STD-3011 compliant system.
4. Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5. Enable and disable the correct link connections.
6. Enter / exit link IAW published procedures.

Performance Standard. Successfully exchange information/data.

Instructor. SI

Prerequisite. 2800, 2814, 2819, 2820.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. C2 System Technical Manual

4.  MIL-STD-3011, JREAP Interface Standard

TDL-4842     3.0    *     B                                   L

Goal.  Operate JREAP C.

Requirement.  Given a MIL-STD-3011 compliant system, SIPRNET access, and assistance from maintenance and communications sections:

1.  Verify the MIL-STD-3011 compliant system is configured with the correct IP address.
2.  Verify the MIL-STD-3011 compliant system is connected to the network.
3.  Build JREAP C IP links in the MIL-STD-3011 compliant system.
    a.  TCP.
    b.  UDP Unicast.
    c.  UDP Multicast.
4.  Enter and activate filters in the MIL-STD-3011 compliant system per the OPTASK LINK.
5.  Enable and disable the correct link connections.
6.  Activate and exchange information with JREAP-C (either TCP or UDP).

Performance Standard.  Successfully exchange information/data.

Instructor.  SI

Prerequisite.  2800, 2814, 2819, 2820.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1.  CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2.  MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3.  C2 System Technical Manual

8.9.8  Command and Control Systems (C2SYS)

8.9.8.1  Purpose.  To develop proficiency in utilizing the command and control systems used in DASC operations.

8.9.8.2  General

Admin Notes.  Command and control system events are located in the MAWTS-1 C3 Course Catalog in order to maintain standardized training across the MACCS.  The table below lists all C2SYS events that are to be completed by DASC personnel position dependent.  See the MAWTS-1 C3 Course Catalog for the events listed in the table below.

Prerequisite.  None.

Crew Requirement.  None.

| EVENT CODE | EVENT NAME | POSITION |
|---|---|---|
| C2SYS-4913 | Import an Airspace Group | IDM, CC |
| C2SYS-4917 | Publish the Air Tasking Order (ATO) | IDM, CC |
| C2SYS-4920 | Operate AFATDS | IDM, CC |

| C2SYS-4922 | Operate Blue Force Tracker (BFT) Equipment | IDM, CC |
|---|---|---|

8.10  INSTRUCTOR UNDER TRAINING (IUT)(5000)

8.10.1  Purpose.  To provide position qualified personnel the additional skills necessary to instruct, evaluate and recommend for completion / qualification "trainees" within a crew.  Upon completion of the required training, an individual may be considered for instructor designation by the Commanding Officer, WTTP Officer, or direct representative as delineated.

8.10.2  General

8.10.2.1  Admin Notes.

　　　　1.  The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to concepts of managing a WTTP, properly conducting training, performing evaluations, and recommending training plans.

　　　　2.  There are three instructor designations (listed below).  The intent is to train individuals with different levels and areas of experience to instruct personnel.  Instructor experience is also gained while progressing through the different instructor designations.

　　　　　　(a)  Basic Instructor (BI)

　　　　　　(b)  Senior Instructor (SI)

　　　　　　(c)  Weapons and Tactics Instructor (WTI)

　　　　3.  The MAWTS-1 C3 Course catalog contains the training requirements for each of the three instructors.  The catalog is located at the MAWTS-1 website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx

　　　　4.  The table below outlines the events that each instructor can train, evaluate, and approve or recommend for approval.

| INSTRUCTOR | Event Training, Evaluation and Approval |
|---|---|
| BI | Core Skill events in which current and proficient |
| SI | Core Skill and Mission Skill events |
| WTI | Mission Skill and Qualification events.<br>-  Evaluate and recommend for qualification<br>-  Endorse recommendations for position designations |
| | The Commanding Officer is the approving authority for qualifications and designations. |

8.10.2.2  Prerequisite

8.10.2.3  Stages.  The following stages are included in the Instructor Under Training Phase of training.

| INSTRUCTOR UNDER TRAINING PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| INSTRUCTOR UNDER TRAINING (IUT) | 8.10.3 | 8-115 |

8.10.3  INSTRUCTOR UNDER TRAINING (IUT)

8.10.3.1  Purpose.  To train the individual Marine in the skills required to lead a period of instruction.

8.10.3.2  General

Admin Notes.  None.

Prerequisite.  None.

Crew Requirement.  None.

| T&R CODE | EVENT DESCRIPTION | INSTRUCTOR |
|---|---|---|
| 5000 | Introduce principles of instruction | BI |
| 5010 | Understand the structure of an event | BI |
| 5020 | Conduct a period of instruction on a T&R event | BI |
| 5100 | Understand the Aviation Training and Readiness (T&R) Program | SI |
| 5110 | Understand the applicable community T&R program | SI |
| 5120 | Understand T&R administration | SI |
| 5130 | Develop a training plan | SI |
|  |  |  |

8.11  REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000)

8.11.1  Purpose.  This phase provides for community standardization of DASC 7242 position qualifications, combat leadership and instructor designations as well as codes for tracking licenses, participation in operations, completing RSO, Machine Gunner Courses, and other skills.  This Manual does not contain "one time" certification training requirements.

8.11.2  General

8.11.2.1  Admin Notes.

1.  The WTTP shall review the MPR to ensure all required training, documentation and administrative actions have been completed prior to staffing qualifications or designation recommendations for approval.

2.  Only once an individual is qualified or designated in writing, the signed letter filed in the MPR, and all administrative actions are completed will the qualification or designation be effective.

8.11.2.2  Prerequisite

8.11.2.3  Stages.  The following stages are included in this Phase of training.

| REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS  PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| QUALIFICATIONS (QUAL) | 8.11.3 | 8-116 |
| DESIGNATIONS (DESG) | 8.11.4 | 8-121 |
| SCHOOL CODES (SCHL) | 8.11.5 | 8-122 |
| LICENSE CODES (LIC) | 8.11.6 | 8-123 |
| OPERATIONS CODES (OPS) | 8.11.7 | 8-125 |

8.11.3  QUALIFICATIONS (QUAL) STAGE

8.11.3.1  Purpose.   To qualify DASC Marines on their ability to perform as DASC crewmembers through evaluation.  There is no limit on the amount of system time required before performing a qualification event.  Once all prerequisites for a qualification have been completed, the trainee is eligible to proceed to the applicable

qualifying event.

8.11.3.2  General

Admin Notes.  Policy on attaining, maintaining and regaining a qualification is contained in chapter 2 of reference (a).

Prerequisite.  Complete all prerequisites for qualification and be recommended by a WTI.

Crew Requirement.  None.

QUAL-6200       0.5       *       B                                                                   L

Goal.  Qualify as an ACR.

Requirement.  Complete the required training in the ACR POI.

Performance Standard.  Proficiency demonstrated in prerequisites.  Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Instructor.  WTI

Prerequisite.  2250 **OR** 2300 **OR** 2350

**AND**

2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2821, 2900, 2901, 2910, 2911, 2940, 2155, 3270, 3275, 3280, 3285, 3290, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.

QUAL-6205       0.5       *       B                                                                   L

Goal.  Qualify as a TAR/HR Operator.

Requirement.  Complete the required training in the TAR/HR POI.

Performance Standard.  Proficiency demonstrated in prerequisites.  Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Instructor.  WTI

Prerequisite.  2045, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 2405, 2900, 2901, 2902, 2911, 2940, 3050, 3055, 3060, 3065, 3070, 8000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.
1. MCWP 3-25.5, DASC Handbook

QUAL-6210     0.5     *     B                                                    L

Goal. Qualify as a TAC/DAS Net Operator.

Requirement. Complete the required training in the TAC/DAS Net Operator POI.

Performance Standard. Proficiency demonstrated in prerequisites. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Instructor. WTI

Prerequisite. 2045, 2055, 2060, 2100, 2155, 2170, 2205, 2210, 2300, 2400, 2405, 2555, 2900, 2901, 2902, 2905, 2910, 2911, 2940, 3100, 3105, 3110, 3115, 3120, 8000.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

QUAL-6215     0.5     *     B                                                    L

Goal. Qualify as FSC net Operator.

Requirement. Complete the required training in the FSC Net Operator POI.

Performance Standard. Proficiency demonstrated in prerequisites. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Instructor. WTI

Prerequisite. 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2405, 2565, 2940, 3150, 3155, 3160, 3165, 3170, 8000, 8062.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

QUAL-6220     0.5     *     B                                                    L

Goal. Qualify as an IDM.

Requirement. Complete the required training in the IDM POI.

Performance Standard. Proficiency demonstrated in prerequisites. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Instructor. WTI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8062, 8063.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

QUAL-6225      2.0      *      B                                              L

Goal. Qualify as a DASC CC.

Requirement.
1. Minimum of 3 board members, to include at least:
   a. WTI (either SAD or CC), SAD, DC, or CC
   b. SAD WTI
   c. CC WTI
2. Board will present 20 questions from MAWTS-1/C3 department.
3. Board will ask the trainee only the 20 questions provided and shall not deviate from them.

Performance Standard. Given 20 random questions, with a mix of 10 factual knowledge questions and 10 questions that require explanation of processes, decision making or description.
1. Answer 8 of 10 factual questions correctly.
2. Answer 8 of 10 processes, decisional, and description questions satisfactorily.
3. Two of three board members must concur trainee met the requirement.
Upon successful completion of this event, the Board will forward the results via the WTTP to the commanding officer who will make the final determination on the qualification in writing.

Instructor. WTI

Prerequisite. MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2809, 2810, 2811, 2812, 2814, 2818, 2819, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

QUAL-6230     0.5     *     B                                                     L

Goal. Qualification as an HD.

Requirement. Complete the required training in the HD POI.

Performance Standard. Proficiency demonstrated in prerequisites. Either HD-4300, 4305, 4310, 4315 or 4320 must be completed with live aircraft. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Instructor. WTI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4300, 4305, 4310, 4315, 4320, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

QUAL-6235     0.5     *     B                                                     L

Goal. Qualification as a TAD.

Requirement. Complete the required training in the TAD POI.

Performance Standard. Proficiency demonstrated in prerequisites. Either TAD-4350, 4355, 4360, 4365 or 4370 must be completed with live aircraft. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Instructor. WTI

Prerequisite. 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4350, 4355, 4360, 4365, 4370, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.
1. MCWP 3-25.5, DASC Handbook

8.11.4 Designations (DESG)

8.11.4.1 Purpose. To provide for the designation of combat leaders and instructors.

8.11.4.2 General

Prerequisite. Complete all designation requirements and be recommended for that designation. However, in the event that a commander deems it necessary to designate someone who has not completed the prerequisite, that person must complete the prerequisite within 6 months from the effective date of designation.

Admin Notes. None.

Crew Requirements. None.

DESG-6300    0.5    *    B    G

Goal. Designation as a DASC Chief (DCHF).

Requirement. Be recommended for designation by a WTI and be designated in writing by the commanding officer.

Performance Standard. N/A.

Prerequisite. MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2500, 2505, 2510, 2515, 2520, 2525, 2530, 2555, 2565, 2800, 2803, 2808, 2809, 2810, 2811, 2812, 2814, 2818, 2819, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3250, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6220, 6220, 6225, 8000, 8020, 8040, 8060, 8080.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. None.

DESG-6320    0.5    *    B    G

Goal. Designation as a Basic Instructor (BI).

Requirement. Be recommended for BI designation by a SI or WTI and designated in writing by the commanding officer.

Performance Standard. N/A.

Prerequisite. 5000, 5010, 5020.

Ordnance. None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

DESG-6321     0.5     *     B                                                    G

Goal.  Designation as a Senior Instructor (SI).

Requirement.  Be recommended for designation by a SI or WTI and designated in writing by the commanding officer.

Performance Standard.  N/A

Prerequisite.  Complete the M-SHARP formal training provided by the local INNOVASI support personnel.  5000, 5010, 5020, 5100, 5110, 5120, 5130.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

DESG-6322     0.5     *     B                                                    G

Goal.  Designation as the unit Weapons and Tactics Instructor (WTI).

Requirement.  Be certified by MAWTS-1 as a WTI and be recommended for designation by the squadron WTI. The commanding officer will designate the WTI in writing.

Performance Standard.  N/A

Prerequisite.  6000.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

8.11.5  SCHOOL CODES (SCHL) STAGE

8.11.5.1  Purpose.  To provide tracking codes for required schools and training.

8.11.5.2  General

Prerequisite.  The individual school houses will maintain the prerequisites for each course that they offer.  Refer to Skills Enhancement message and the school house for up to date prerequisites.

Admin Notes.  The following table reflects skill enhancement training available to DASC Marines:

| SCHL CODE | NAME OF COURSE | LOCATION | CID |
|---|---|---|---|
| SCHL-6000 | Weapons and Tactics Instructor (WTI) | MCAS Yuma, AZ | M14P2A1 |
| SCHL-6010 | Airspace Course | Hurlburt Field, FL | F19KXD2 |
| SCHL-6011 | Personnel Recovery Course | Hurlburt Field, FL | F19KXE2 |
| SCHL-6012 | Plans/Ops Technician Course | Hurlburt Field, FL | F19KXF2 |
| SCHL-6015 | Joint Air Operation Center Command and Control Course (JAOC2C) Airspace Course | Hurlburt Field, FL | F19L2W2 |
| SCHL-6016 | Joint Air Operations Senior Staff Course | Hurlburt Field, FL | N/A |
| SCHL-6020 | Link 16 Basics Course (JT-100) | Joint Knowledge Online (JKO) | N/A |
| SCHL-6021 | Intro to Multi TDL Network (JT-101) | Fort Bragg, NC | N/A |
| SCHL-6022 | Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102) | Fort Bragg, NC | A05L6Z1 |
| SCHL-6023 | Link 16 Joint Interoperability Course (US-109) | Joint Knowledge Online (JKO) | N/A |
| SCHL-6024 | Multi TDL  Planner Course (JT-201) | Fort Bragg, NC | A05KHY1 |
| SCHL-6025 | Link 16 Unit Manager (LUM) Course (JT-220) | Fort Bragg, NC | N/A |
| SCHL-6026 | Joint Interface Control Officer (JICO) (JT-301) | Fort Bragg, NC | N/A |
| SCHL-6027 | Advanced JICC Operator Course (JT-310) | Fort Bragg, NC | N/A |
| SCHL-6028 | Air Defense Systems Integrator (ADSI) Course | Advanced Tactical Systems, Austin, TX | N/A |
| SCHL-6067 | Military Airspace Management Course | NAS Biloxi, MS | F0273D1 |
| SCHL-6072 | Advanced Field Artillery Tactical Data System (AFATDS) | Rgt Schools / Ft Sill, OK | N/A |
| SCHL-6079 | JRE-GW Operators' Course | Engility corporation | N/A |
| SCHL-6082 | Joint Firepower Course | Nellis AFB, NV | F27M7K2 |

Crew Requirements.  None.

8.11.6  LICENSES CODES (LIC) STAGE

8.11.6.1  Purpose.  To provide tracking codes for required licenses and training.

8.11.6.2  General

Prerequisite.  The individual licensing authority will maintain the prerequisites for each course that they offer.

Admin Notes.  These codes serve to track licenses, participation in operations/deployments and completion of the Machine Gunners and RSO courses.

Crew Requirements.  None.

LIC-6400          0.5      *        B                                                        G

Goal.  Track HMMWV licenses.

Requirement.  Track the M1123 and M1152 HMMWV licenses for ASOO required for DASC operations.

Performance Standard.  Per the licensing course POI.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

LIC-6405          0.5       *       B                                                      G

Goal.  Track issuance of MK23 MTVR license.

Requirement.  Complete MTVR training requirements for MK23.

Performance Standard.  Per the licensing course POI.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

LIC-6410          0.5       *       B                                                      G

Goal.  Track issuance of MK27 MTVR license.

Requirement.  Complete MTVR training requirements for MK27.

Performance Standard.  Per the licensing course POI.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

LIC-6415          0.5       *       B                                                      G

Goal.  Track explosive and corrosives HMMWV license.

Requirement.  Complete explosive and corrosives HMMWV license training requirements.

Performance Standard.  Per the licensing course POI.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

8.11.7  OPERATIONS CODES (OPS) STAGE

8.11.7.1  Purpose.  To provide tracking codes for operations and training.

8.11.7.2  General

Prerequisite.  The training office will utilize the following codes to track operational training.

Admin Notes.  These codes serve to track participation in operations/deployments and completion of the Machine Gunners and RSO courses.

Crew Requirements.  None.

OPS-6455          0.5      *          B                                                          G

Goal.  Track participation MEU deployments.

Requirement.  Complete a MEU deployment as an ASOO or LNO.

Performance Standard.  N/A

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

OPS-6465          0.5      *          B                                                          G

Goal.  Track completion of Range Safety Officers (RSO) courses.

Requirement.  Complete the RSO course.

Performance Standard.  Per course POI.

Prerequisite.  None.

Ordnance.  None.

Range.  None.

External Syllabus Support.  None.

Reference.  None.

8.12  MISSION ESSENTIAL TASK (MET) PHASE (7000)

8.12.1  Purpose.  This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

8.12.2  General

8.12.2.1  Prerequisite.  Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase.  For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

8.12.2.2  Admin Notes.  Prerequisites for this phase of training cannot be waived.  Multiple events can be trained at the same time as long as separate evaluations are being conducted.

8.12.2.3  Stages.  The following stages are included in the Mission Essential Task (MET) Phase of training.

| INSTRUCTOR UNDER TRAINING PHASE | | |
|---|---|---|
| STAGE | PARAGRAPH | PAGE NUMBER |
| CONDITION (COND) | 8.12.3 | 8-126 |

8.12.3  CONDITION (COND) STAGE

8.12.3.1  Purpose.  To train unit level teams in executing community specific MET(s) or MET preparatory events.

8.12.3.2  General

Admin Notes.  All events in this stage will require the following administrative/operational documents to be identified or created:

1. Letter of Instruction (LOI)
2. Personnel Roster
3. Bill of Material (BOM)
4. Equipment Density List (EDL)

Prerequisite.  If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Crew Requirements.

COND-7400      3.0      730      B, R, M                                                  L/S

Goal.  Employ an ASLT.

Requirement.  Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a ASLT to include the following:

1. Plan for Employment of a ASLT:
   a. Conduct Problem Framing.
      (1) Identify Level of Support Required of MASS Unit.
      (2) Develop Mission Statement / Commander's Intent.
   b. Create Employment Plan.

           (1) Coordinate with External Entities (and / or Agencies).
           (2) Identify Required Personnel and Equipment.
           (3) Conduct Site Reconnaissance and Selection.
           (4) Identify and Coordinate External Support Requirements.
       c. Create Supporting Planning Products.
           (1) Create / Publish POA&M / LOI.
           (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
           (3) Conduct Required Briefs. (IPC/MPC, Confirmation Brief, etc.)
  2. Deploy an ASLT:
       a. Conduct Movement.
           (1) Conduct Embarkation (Unit to APOE/SPOE).
           (2) Conduct Convoy Operations (APOD/SPOD) to TAA to tactical site).
       b. Establish ASLT Site.
           (1) Establish and Maintain Site Security.
           (2) Establish Communications and Connectivity.
           (3) Establish Administrative and Logistics Functions.
  3. Operate an ASLT:
       A. Conduct ASLT Operations.
  4. Sustain an ASLT:
       a. Conduct Staff Functions.
           (1) Conduct Administrative Functions.
           (2) Conduct Intelligence Functions.
           (3) Conduct Operations and Training.
           (4) Conduct Logistical Functions.
           (5) Conduct Communications Functions.
  5. Re-Deploy an ASLT:
       a. Plan for Re-Deployment.
           (1) Identify Logistics Requirements.
           (2) Identify External Support Requirements.
           (3) Identify Maintenance functions and Requirements.
           (4) Identify Administration Requirements and Functions.
       b. Conduct Movement
           (1) Conduct Convoy Operations. (Tactical Site to TAA to APOE/SPOE).
           (2) Conduct Embarkation (APOD/SPOD to the unit).

Performance Standard. Perform the requirement items listed and conduct ASLT operations supporting the DASC during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. (1) CMMR ASLT Crew.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. FSCC, air and fire support missions as defined by operational tempo level three, a DASC, S-1, S-2, S-3, S-4, S-6.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

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COND-7405    3.0    730    B, R, M                                    L/S

Goal. Employ an ASE.

Requirement. Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density

List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a ASE to include the following:

1. Plan for Employment of a ASE:
   a. Conduct Problem Framing.
      (1) Identify Level of Support Required of MASS Unit.
      (2) Develop Mission Statement / Commander's Intent.
   b. Create Employment Plan.
      (1) Coordinate with External Entities (and / or Agencies).
      (2) Identify Required Personnel and Equipment.
      (3) Conduct Site Reconnaissance and Selection.
      (4) Identify and Coordinate External Support Requirements.
   c. Create Supporting Planning Products.
      (1) Create / Publish POA&M / LOI.
      (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
      (3) Conduct Required Briefs. (IPC/MPC, Confirmation Brief, etc.)
2. Deploy an ASE:
   a. Conduct Movement.
      (1) Conduct Embarkation (Unit to APOE/SPOE).
      (2) Conduct Convoy Operations (APOD/SPOD to TAA to tactical site).
   b. Establish ASE Site.
      (1) Establish and Maintain Site Security.
      (2) Establish External ASE Infrastructure.
      (3) Establish Internal ASE Infrastructure.
      (4) Establish Communications and Connectivity.
      (5) Establish Administrative and Logistics Functions.
3. Operate an ASE:
   a. Conduct ASE Operations.
      (1) Process Immediate Air Support Requests.
      (2) Integrate Aircraft Employment with Other Supporting Arms.
      (3) Manage Terminal Control Assets.
      (4) Procedurally Control Aircraft within Assigned Area of Operations.
4. Sustain an ASE:
   a. Conduct Staff Functions.
      (1) Conduct Administrative Functions.
      (2) Conduct Intelligence Functions.
      (3) Conduct Operations and Training.
      (4) Conduct Logistical Functions.
      (5) Conduct Communications Functions.
5. Re-Deploy an ASE:
   a. Plan for Re-Deployment.
      (1) Identify Logistics Requirements.
      (2) Identify External Support Requirements.
      (3) Identify Maintenance functions and Requirements.
      (4) Identify Administration Requirements and Functions.
   b. Conduct Movement
      (1) Conduct Convoy Operations. (Tactical Site to TAA to APOE/SPOE).
      (2) Conduct Embarkation (APOD/SPOD to the unit).

Performance Standard. Perform the requirement items listed and conduct ASE operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. (1) CMMR ASE Crew.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, air and fire support missions as defined by operational tempo three, FFCC/FSCC, and if required, a SACC and NTACC/HCS.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7410     3.0     730     B, R, M                                                          L/S

Goal. Employ a DASC.

Requirement. Requirement. Given the references, a Table of Equipment (T/E) and / or Equipment Density List (EDL), Commander's guidance, and an operations order/ initiating directive, employ a DASC to include the following:

1. Plan for Employment of a DASC:
   a. Conduct Problem Framing.
      (1) Identify Level of Support Required of MASS Unit.
      (2) Identify Potential Need for DASC Extensions.
      (3) Develop Mission Statement/ Commander's Intent.
   b. Create Employment Plan.
      (1) Coordinate With External Entities (and / or Agencies).
      (2) Identify Required Personnel and Equipment.
      (3) Conduct Site Reconnaissance and Selection.
      (4) Identify and Coordinate External Support Requirements.
      (5) Plan for any/all required DASC Extensions.
   c. Create Supporting Planning Products.
      (1) Create / Publish POA&M / LOI.
      (2) Create Necessary Manning Documents/EDL/BOM/Load Plan (MDSS).
      (3) Conduct Required Briefs (IPC/MPC, Confirmation Brief, etc.).
2. Deploy a DASC:
   a. Conduct Movement.
      (1) Conduct Embarkation (Unit to APOE/SPOE).
      (2) Conduct Convoy Operations (APOD/SPOD to TAA to tactical site).
   b. Establish DASC Site.
      (1) Establish and Maintain Site Security.
      (2) Establish External DASC Infrastructure.
      (3) Establish Internal DASC Infrastructure.
      (4) Establish Communications and Connectivity.
      (5) Establish Administrative and Logistics Functions.
3. Operate a DASC:
   a. Conduct DASC Operations.
      (1) Process Immediate Air Support Requests.
      (2) Integrate Aircraft Employment with Other Supporting Arms.
      (3) Manage Terminal Control Assets.
      (4) Procedurally Control Aircraft within Assigned Area of Operations.
   b. Manage DASC extensions.
4. Sustain a DASC:
   a. Conduct Staff Functions.
      (1) Conduct Administrative Functions.
      (2) Conduct Intelligence Functions.
      (3) Conduct Operations and Training.
      (4) Conduct Logistical Functions.
      (5) Conduct Communications Functions.

5. Re-Deploy a DASC:
  a. Plan for Re-Deployment.
    (1) Identify Logistics Requirements.
    (2) Identify External Support Requirements.
    (3) Identify Maintenance functions and Requirements.
    (4) Identify Administration functions and Requirements.
  b. Conduct Movement.
    (1) Conduct Convoy Operations (Tactical Site to TAA to APOE/SPOE).
    (2) Conduct Embarkation (APOD/SPOD to the unit).

Performance Standard. Perform the requirement items listed and conduct DASC operations during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. Two (2) CMMR DASC crews.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, FFCC/FSCC, and if required, aircraft designated to provide an airborne DASC capability.

Reference.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7415   3.0   730   B, R, M             L/S

Goal. Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the DASC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operations order/initiating directive, conduct a RSOP for DASC operations to include the following:

1. Conduct a Map Survey selecting primary and alternate sites.
2. Identify environmental concerns that may affect DASC communication.
3. Coordinate with the FSCC to provide DASC requirements.
4. Coordinate site security, camouflage, dispersion, and trafficability.
5. Identify locations for emplacement of communications and support equipment.
6. Coordinate priorities for equipment emplacement.
7. Identify echelon considerations.
8. Identify Advanced Party/RSOP Team.
9. Occupy the site.
10. Emplace the DASC.

Performance Standard. Perform the requirement items. The RSOP team will be prepared to discuss decisions/actions.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. MASS Detachment Commander, DASC Chief, security team, Representatives from the following sections: S-4, S-2, S-6.

<u>Reference</u>.
1. MCWP 3-16.3, TTP for the Field Artillery Cannon Battery
2. MCWP 3-25.5, DASC Handbook
3. MCWP 3-16.3, Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position
4. Squadron SOP

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COND-7420    3.0    730    B, R, M                                            L/S

<u>Goal</u>. Conduct Echelon Operations.

<u>Requirement</u>. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operations order/initiating directive, conduct echelon operations to include the following:

1. Continue DASC operations without pause or loss of situational awareness.
2. Checklists for the transfer of control are on hand and are utilized.
3. Deploy the echelon element to the new position.
4. Brief the operational crew concerning their duties for passage of control.
5. Establish and maintain required communications and connectivity.
6. Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted.
7. Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place.
8. Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft is verified.
9. Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft is verified.
10. Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand.
11. Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets.
12. Maintain continuous coordination with adjacent and higher agencies during preparation for and transfer of OAS/AS control, if required.
13. Pass control of DASC functions to the echelon element.
14. Notify the TACC, FSCC, and other agencies, as necessary, control has been passed.
15. Recover the rear element into the DASC when echelon operations have concluded.
16. Debrief with the DASC OIC and DASC Chief.

<u>Performance Standard</u>. Perform the requirement items listed to conduct echelon operations during a minimum operational tempo three (3) real world operation or training simulation.

<u>Prerequisite</u>. Two (2) CMMR DASC crews.

<u>Ordnance</u>. None.

<u>Range</u>. Range space capable of hosting ground and air fires.

<u>External Syllabus Support</u>. S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, and if required, aircraft designated to provide an airborne DASC capability.

<u>Reference</u>.
1. MCWP 3-25.5, DASC Handbook
2. Squadron SOP

COND-7425    3.0    730    B, M, R                                           S/L

Goal. Conduct Phasing of Control Ashore.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operations order/initiating directive, conduct phasing of control ashore to include the following:

1. Conduct a Map Survey selecting primary and alternate sites.
2. Checklists for the transfer of control ashore are on hand and utilized.
3. Review the procedures delineated in the operation plan/other directives for the phasing of control ashore and keeps the Naval Tactical Air Control Center informed of current status.
4. Deploy ashore.
5. Brief the operational crew concerning their duties for the passage of control.
6. Establish and maintain required communications and connectivity.
7. Updated intelligence information, to include the friendly and enemy order of battle and current ATO is on hand and posted.
8. Receive current status of air defense warnings, weapons conditions, anti-air warfare intelligence, and other pertinent data is updated prior to the transfer of control taking place.
9. Receive current status of all fixed wing aircraft to include scheduled events, alert aircraft, and airborne aircraft.
10. Receive current status of all helicopter and assault support aircraft to include scheduled events, alert aircraft, airborne aircraft, MEDEVAC aircraft, and SAR aircraft.
11. Review status of all Tactical Air and Assault Support Requests and ensure they are plotted and on hand.
12. Verify with the FSCC the locations of friendly artillery and active Fire Support Areas (FSAs), for naval gunfire assets.
13. Ensure all requirements have been met and then advise the TACC (afloat) and FSCC that the DASC is prepared for the phasing of control of OAS/AS ashore.
14. Ensure the preplanned sequence of phasing control of OAS/AS ashore is completed and the SAD acknowledges/produces any reports required.
15. Advise CLF when ready to assume control of all or a portion of direct air support ashore (specify OAS, Assault Support, Air Recce, EW) at a specified date and time.
16. Advise CLF that control has been transferred and the date/time group that transfer was accomplished.
17. Advise the TACC (afloat)/TADC (ashore) and FSCC that the DASC now has control referencing date and time (local).
18. Maintain continuous coordination with adjacent and higher agencies.
19. Notify all adjacent agencies when transfer of control is completed.
20. As necessary, DASC/SACC liaison team provides further updates of information upon arrival at DASC site.

Performance Standard. Perform the requirement items listed to conduct phasing control ashore during a minimum operational tempo three (3) real world operation or training simulation.

Prerequisite. (1) CMMR ASE crew or (1) CMMR DASC crew.

Ordnance. None.

Range. Range space capable of hosting ground and air fires.

External Syllabus Support. S-1, S-2, S-3, S-4, S-6, MHE, air and fire support missions as defined by operational tempo three (3), digital backbone, Navy TACC, FSCC, Marine TACC, LFOC, SACC/HCS.

Reference.
1. JP 3-02.1, Joint Doctrine for Landing Forces Operations

2. MCWP 3-16.3, Tactics, Techniques, and Procedures for the Field Artillery Cannon Battery, Chapter 2, Reconnaissance, Selection, and Occupation of a Position

3. MCWP 3-25.5, DASC Handbook

4. MCWP 3-40.3, MAGTF Communications System

5. Squadron SOP

8.13 AVIATION CAREER PROGRESSION MODEL (8000).

8.13.1 Purpose. To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

> Marine Air Command and Control System (MACCS)
> Aviation Ground Support
> Joint Air Operations
> ACE Battle Staff
> MAGTF
> Seabased Operations
> Combatant Commander Organizations

8.13.2 General. The ACPM is intended to be an integrated series of academic events contained within each phase of training. Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction. In the future, courses may be consolidated or revised to meet changing requirements. Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/Aviation%20Career%20Progression%20Model/Forms/All Items.aspx

Completed events shall be manually logged and tracked in M-SHARP.

ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

| STAGE | TRNG CODE | T&R DESCRIPTION | | ACAD TIME | TO BE COMPLETED DURING |
|-------|-----------|-----------------|---|-----------|------------------------|
| ACPM | 8000 | **MACCS** | | 1 | 2000 PHASE |
| ACPM | 8001 | MARINE AIR COMMAND AND CONTROL SYSTEM | | 4 | 2000 PHASE |
| ACPM | 8002 | TACTICAL AIR COMMAND CENTER (TACC) | | 4 | 2000 PHASE |
| ACPM | 8003 | DIRECT AIR SUPPORT CENTER (DASC) | | 4 | 2000 PHASE |
| ACPM | 8004 | TACTICAL AIR OPERATIONS CENTER (TAOC) | | 4 | 2000 PHASE |
| ACPM | 8005 | MARINE AIR TRAFFIC CONTROL (MATC) | | 4 | 2000 PHASE |
| ACPM | 8006 | LOW ALTITUDE AIR DEFENSE (LAAD) | | 4 | 2000 PHASE |
| ACPM | 8007 | MARINE UNMANNED AERIAL VEHICLE SQUADRON (VMU) | | 4 | 2000 PHASE |
| ACPM | 8008 | MARINE WING COMMUNICATION SQUADRON (MWCS) | | 4 | 2000 PHASE |
| ACPM | 8020 | **ACE** | | 1 | 3000 PHASE |
| ACPM | 8021 | AVIATION OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8022 | CONTROL OF AIRCRAFT AND MISSILES | | 4 | 3000 PHASE |
| ACPM | 8023 | OFFENSIVE AIR SUPPORT (OAS) | | 4 | 3000 PHASE |

| ACPM | 8024 | ASSAULT SUPPORT | | 4 | 3000 PHASE |
|------|------|-----------------|---|---|------------|
| ACPM | 8025 | AIR RECONNAISSANCE | | 4 | 3000 PHASE |
| ACPM | 8026 | ELECTRONIC WARFARE | | 4 | 3000 PHASE |
| ACPM | 8027 | ANTI-AIR WARFARE | | 4 | 3000 PHASE |
| ACPM | 8028 | AVIATION GROUND SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8040 | **THREAT** | | 1 | 2000 PHASE |
| ACPM | 8041 | SURFACE TO AIR THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8042 | FIXED WING THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8043 | ROTARY WING THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8044 | MISSILE AND UAS THREAT TO THE MAGTF | | 4 | 2000 PHASE |
| ACPM | 8060 | **MAGTF** | | 1 | 3000 PHASE |
| ACPM | 8061 | GROUND COMBAT OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8062 | FIRE SUPPORT COORDINATION IN THE GCE | | 4 | 3000 PHASE |
| ACPM | 8063 | MAGTF COMMAND AND CONTROL | | 4 | 3000 PHASE |
| ACPM | 8064 | MAGTF COMMUNICATIONS | | 4 | 3000 PHASE |
| ACPM | 8065 | PHASING CONTROL ASHORE | | 4 | 3000 PHASE |
| ACPM | 8066 | INFORMATION MANAGEMENT | | 4 | 3000 PHASE |
| ACPM | 8067 | UAS SUPPORT OF THE MAGTF | | 4 | 3000 PHASE |
| ACPM | 8080 | **JOINT AIR OPERATIONS** | | 1 | 3000 PHASE |
| ACPM | 8081 | COMMAND AND CONTROL OF JOINT AIR OPERATIONS | | 4 | 3000 PHASE |
| ACPM | 8082 | THEATER AIR GROUND SYSTEM (TAGS) | | 4 | 3000 PHASE |
| ACPM | 8083 | JOINT FIRE SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8084 | CLOSE AIR SUPPORT | | 4 | 3000 PHASE |
| ACPM | 8085 | JOINT TARGETING | | 4 | 3000 PHASE |
| ACPM | 8086 | NORTH ATLANTIC TREATY ORGANIZATION (NATO) | | 4 | 3000 PHASE |
| ACPM | 8087 | JOINT AIRSPACE CONTROL | | 4 | 3000 PHASE |
| ACPM | 8088 | COUNTERING AIR AND MISSILE THREATS | | 4 | 3000 PHASE |
| TOTAL ACPM STAGE | | | 40 | 145 | |

8.14 T&R SYLLABUS MATRIX

| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | | |
| CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | | |
| AIRS | 1100 | Identify components of MAGTF Operations | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1000 |
| AIRS | 1102 | Identify how the Marine Aircraft Wing supports the MAGTF | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1020 |
| AIRS | 1104 | Identify Offensive Air Support (OAS) | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1040 |
| AIRS | 1106 | Identify Assault Support (AS) | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1060 |
| AIRS | 1108 | Identify Aerial Reconnaissance | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1080 |
| AIRS | 1110 | Identify Anti-Air Warfare (AAW) | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1100 |
| AIRS | 1112 | Identify Electronic Warfare (EW) | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1120 |
| AIRS | 1114 | Identify Control of Aircraft and Missiles | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1140 |
| AIRS | 1116 | Identify threats to the Marine Air Ground Task Force (MAGTF) | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1160 |
| AIRS | 1118 | React to Threats affecting DASC Operations | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1120 | Extract critical information from operations documents for the DASC | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1180 |
| AIRS | 1122 | State the proper procedures for handling and storage of classified materials | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1200 |
| AIRS | 1124 | Identify Air Support Communications Equipment | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1220 |
| AIRS | 1126 | Identify the purpose of Common Aviation Command and Control System (CAC2S) | | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |

| STAGE | CODE | TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | |
| | | components | | | | | | | | | | | | | | | | | |
| AIRS | 1128 | Conduct communications utilizing CAC2S | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1240 |
| AIRS | 1130 | Conduct Information Security during DASC Operations | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1132 | Plot Direct Air Support Information | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1260 |
| AIRS | 1134 | Receive and process immediate air support requests | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1280 |
| AIRS | 1136 | Operate Tactical Display Framework (TDF) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| AIRS | 1138 | Operate Joint Tactical Common Operational Picture Workstation (JTCW) Client | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1380 |
| AIRS | 1140 | Exchange information with the TACC | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1360 |
| AIRS | 1142 | Exchange information with the FSCC | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1360 |
| AIRS | 1144 | Familiarize the operator on Theater Battle Management Core System (TBMCS) for direct air support operations | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1360 |
| AIRS | 1146 | Operate the Effects Management Tool (EMT) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1340 |
| AIRS | 1148 | Define elements of information exchange within the MAGTF Communications System | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 1340 |
| AIRS | 1150 | Identify the components of the air picture | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| TOTAL CORE SKILL INTRODUCTION (1000 PHASE EVENTS) | | | | | | | | | | 26 | 0 | 0 | 0 | 0 | 0 | | | | |
| CORE SKILL TRAINING (2000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| CORE SKILL ACADEMICS (ACAD) | | | | | | | | | | | | | | | | | | | |
| ACAD | 2045 | Identify DASC crew positions | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | 8003 | - | - | 2045 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| ACAD | 2050 | Identify storage and handling of classified material | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2050 |
| ACAD | 2055 | Identify Airspace Coordination Measures / Fire Support Coordination Measures | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2055 |
| ACAD | 2060 | Identify weather reports and impacts of weather on aviation operations | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2060 |
| ACAD | 2065 | Describe aviation ordnance | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | 2065 |
| TOTAL CORE SKILL ACADEMIC STAGE (ACAD) | | | | | | | | | | 5 | 5 | 0 | 0 | 0 | 0 | | | | |
| COMMUNICATIONS SKILLS (COMM) | | | | | | | | | | | | | | | | | | | |
| COMM | 2100 | Perform Pacific Numeral Cypher Authentication | B | - | S/L | - | - | - | * | | 0 | | 1 | | 0 | - | - | - | 2100 |
| COMM | 2105 | Utilize a man portable radio | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2115 | - | - | 2105 |
| COMM | 2110 | Utilize the HF/VHF radio | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2120 | - | - | 2110 |
| COMM | 2115 | Describe current man portable radios | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | - | - | - | 2115 |
| COMM | 2120 | Describe current HF/VHF radios | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | - | - | - | 2120 |
| COMM | 2125 | Describe data functions associated with HF/VHF radios | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2120 | - | - | 2125 |
| COMM | 2130 | Identify communication problems | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2250 **OR** 2300 **OR** 2350 **AND** 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2405, 2555, 2565, 8000, 8020, 8062, 8063 | - | - | 2130 |
| TOTAL COMMUNICATION SKILLS STAGE (COMM) | | | | | | | | | | 0 | 0 | 1 | 1 | 6 | 6 | | | | |
| EQUIPMENT (EQUIP) | | | | | | | | | | | | | | | | | | | |
| EQUIP | 2150 | Identify the characteristics, capabilities and limitations of the CS | B | - | L | - | - | - | * | | 0 | | 0 | | 1.5 | 2115, 2120 | - | - | 2150 |

DASC 7242 T&R SYLLABUS MATRIX

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |

**DASC 7242 T&R SYLLABUS MATRIX**

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EQUIP | 2155 | Employ and maintain organic DASC shelter | B | - | L | - | - | - | * | | 0 | | 0 | | 1.5 | - | - | - | 2155 |
| EQUIP | 2160 | Identify the characteristics, capabilities and limitations of Motor Transport and Utilities (MT/UT) equipment associated with the MASS | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | - | - | - | 2160 |
| EQUIP | 2165 | Identify the characteristics, capabilities and limitations of MRC vehicles | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | 2115, 2120 | - | - | 2165 |
| EQUIP | 2170 | Emplace and displace the Processing and Display System (PDS) Operations Facility (OPFAC) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2155 | - | - | 2170 |
| **TOTAL EQUIPMENT SKILLS STAGE (EQUIP)** | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 6 | | | | |
| **INFORMATION DISPLAY MANAGER (IDM)** | | | | | | | | | | | | | | | | | | | |
| IDM | 2200 | Perform coordination of track data | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2811 | - | - | 2200 |
| **TOTAL INFORMATION DISPLAY MANAGER SKILLS STAGE (IDM)** | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 2 | | | | |
| **AIR SUPPORT OPERATOR (ASO)** | | | | | | | | | | | | | | | | | | | |
| ASO | 2205 | Plot coordinates and symbols on a map | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2055, 2900, 2901, 2921, 8001, 8003 | - | - | 2205 |
| ASO | 2400 | Maintain information on the DASC Tactical Display | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | 2400 |
| ASO | 2405 | Conduct Direct Air Support Center (DASC) operations in a Chemical Biological Radiological Nuclear (CBRN) environment | B | - | S | - | - | - | * | 4 | | 0 | | 0 | | 2250 **OR** 2300 **OR** 2350 | - | - | 2405 |
| **TOTAL AIR SUPPORT OPERATOR SKILLS STAGE (ASO)** | | | | | | | | | | 1 | 4 | 0 | 0 | 2 | 3 | | | | |
| **AIR CONTROL RECORDER (ACR)** | | | | | | | | | | | | | | | | | | | |
| ACR | 2210 | Track and display information associated with the execution of the Air Tasking Order (ATO) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 2045, 2900, 2901, 2910, 8001, 8003 | | | 2210 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
| TOTAL AIR CONTROL RECORDER SKILLS STAGE (ACR) | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 2 | | | | |
| TACTICAL AIR REQUEST/HELICOPTER REQUEST (TRHR) | | | | | | | | | | | | | | | | | | | |
| TRHR | 2250 | Receive and process immediate air support requests | B | - | S/L | - | - | - | * | | 0 | | 2 | | 0 | 2045, 2100, 2900, 2901, 2902, 2911, 2940, 8000, 8003 | - | - | 2250 |
| TOTAL TACTICAL AIR REQUEST/HELICOPTER REQUEST SKILLS STAGE (TRHR) | | | | | | | | | | 0 | 0 | 1 | 2 | 0 | 0 | | | | |
| TACTICAL AIR COMMAND/DIRECT AIR SUPPORT (TCDS) | | | | | | | | | | | | | | | | | | | |
| TCDS | 2300 | Exchange information with the TACC/ACE | B | - | S/L | - | - | - | * | | 0 | | 2 | | 0 | 2045, 2055, 2060 2100, 2210, 2900, 2901, 2902, 2905, 2910, 2911, 2940, 8001, 8002, 8003 | - | - | 2300 |
| TOTAL TACTICAL AIR COMMAND/DIRECT AIR SUPPORT SKILLS STAGE (TCDS) | | | | | | | | | | 0 | 0 | 1 | 2 | 0 | 0 | | | | |
| FIRE SUPPORT COORDINATION (FSC) | | | | | | | | | | | | | | | | | | | |
| FSC | 2350 | Exchange information with the FSCC/GCE | B | - | S/L | - | - | - | * | | 0 | | 2 | | 0 | 2045, 2055, 2110, 2940, 8001, 8002, 8003, 8062 | - | - | 2350 |
| FSC | 2355 | Process fire missions | B | - | S/L | - | - | - | * | | 0 | | 2 | | 0 | - | - | - | 2355 |
| TOTAL FIRE SUPPORT COORDINATION SKILLS STAGE (FSC) | | | | | | | | | | 0 | 0 | 2 | 4 | 0 | 0 | | | | |
| CREW CHIEF (CC) | | | | | | | | | | | | | | | | | | | |
| CC | 2455 | Extract critical information from supporting documents | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, | - | - | 2455 |

| | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
| STAGE | | EVENT | POI | E | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | | |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 8000, 8020, 8062, 8063 | | | |
| CC | 2460 | Perform DASC Crew Chief administrative functions | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8062, 8063 | - | - | 2460 |
| CC | 2465 | Determine prioritization of communication links | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2921, 2940, 3000, | - | - | 2465 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 8000, 8020, 8062, 8063 | | | |
| CC | 2475 | Conduct the duties of a DASC Crew Chief during a passage of control | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8062, 8063 | - | - | 2475 |
| CC | 2480 | Match available aviation assets with requests | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2803, | - | - | 2480 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3003, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 8000, 8020, 8041, 8062, 8063 | | | |
| TOTAL CREW CHIEF SKILLS STAGE (CC) | | | | | | | | | | 0 | 0 | 1 | 4 | 4 | 4 | | | | |
| DASC CHIEF (DC) | | | | | | | | | | | | | | | | | | | |
| DC | 2500 | Conduct DASC site selection/map survey | B | - | L | - | - | - | * | 0 | | 0 | | | 1.5 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911,  2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, | - | - | 2500 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8060 | | | |
| DC | 2505 | Supervise emplacement of the DASC | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8060 | - | - | 2505 |
| DC | 2510 | Determine DASC requirements | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, | - | - | 2510 |

| | DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911,  2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8040, 8060 | | | |
| DC | 2515 | Describe DASC displacement operations | B | - | L | - | - | - | * | | 0 | | 0 | | 1.5 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation,  2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, | - | - | 2515 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8040, 8060 | | | |
| DC | 2520 | Describe Phasing Control Ashore | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, | - | - | 2520 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, 8060, 8080 | | | |
| DC | 2525 | Create and supervise the conduct of a DASC Drill | B | - | L | - | - | - | * | 0 | | 0 | | 80 | | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, | - | - | 2525 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 8060, 8080 | | | |
| DC | 2530 | Develop and execute a load plan | B | - | L | - | - | - | * | | 0 | | 0 | | 1 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, 8060, 8080 | - | - | 2530 |
| TOTAL DASC CHIEF SKILLS STAGE (DC) | | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 88 | | | | |
| FAMILIARIZATION (FAM) | | | | | | | | | | | | | | | | | | | |
| FAM | 2555 | Observe a TACC | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8002, 8003 | - | - | 2555 |
| FAM | 2565 | Observe a Fire Support Coordination Center (FSCC) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8062 | - | - | 2565 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| FAM | 2570 | Observe the TAOC or an EW/C | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8004 | - | - | 2570 |
| FAM | 2575 | Observe an Marine Air Traffic Control Mobile Team (MMT) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8005 | - | - | 4405 |
| TOTAL FAMILIARIZATION SKILLS STAGE (FAM) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 8 | | | | |
| TACTICAL DATA LINKS (TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 2800 | Identify the purpose of documents that enable Tactical Data Link (TDL) operations | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 2803 | Identify DASC voice and data communications equipment | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 2808 | Describe the Joint Data Network | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 2809 | Describe the Multi-Tactical Data Link (TDL) Interface | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 2810 | Identify Interface Unit (IU) categories and addressing requirements | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 2811 | Identify basic track data | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 2812 | Identify information contained within J-Series Messages that may be displayed to the operator | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 2814 | Describe Data Filters | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 2818 | State the characteristics of Link 16 | B | - | G | - | - | - | * | | 3 | | 0 | | 0 | - | - | - | - |
| TDL | 2819 | State the characteristics of the Joint Range Extension Application Protocol (JREAP) | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 2820 | Identify mission essential segments, sets, and fields within the OPTASK LINK message | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| TDL | 2821 | State the purpose of Interface Coordination procedures | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 2850 | Conduct tactical data link coordination for an agency | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2810, 2814, 2820 | - | - | - |
| TDL | 2851 | Perform track data coordination for a track producing agency | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2809, 2810, 2811, 2812, 2814, 2820, 2850 | - | - | - |
| TOTAL TACTICAL DATA LINKS SKILLS STAGE (TDL) | | | | | | | | | | 12 | 21 | 0 | 0 | 2 | 6 | | | | |
| COMMAND AND CONTROL SYSTEMS (C2SYS) | | | | | | | | | | | | | | | | | | | |
| C2SYS | 2900 | Set up profile on TBMCS client | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | TBMCS | - | 2900 |
| C2SYS | 2901 | Access TBMCS Online Master Help Index | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2900 | TBMCS | - | 2901 |
| C2SYS | 2902 | Utilize the TBMCS Alerts Service Web Applications | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 2900, 2901 | TBMCS | - | 2902 |
| C2SYS | 2905 | Utilize the air tasking order airspace control order tool | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | 2900, 2901, 2902 | TBMCS | - | 2905 |
| C2SYS | 2910 | Operate ESTAT | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | 2900, 2901, 2902 | TBMCS | - | 2910 |
| C2SYS | 2911 | Operate WARP | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | 2900, 2901, 2902 | TBMCS | - | 2911 |
| C2SYS | 2921 | Operate C2 Personal Computer (JTCW) | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | JTCW | - | 2921 |
| C2SYS | 2940 | Demonstrate proficiency utilizing tactical chat | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | PC | - | 2940 |
| TOTAL COMMAND AND CONTROL SYSTEM SKILLS STAGE (C2SYS) | | | | | | | | | | 8 | 13.5 | 0 | 0 | 0 | 0 | | | | |
| TOTAL CORE SKILL PHASE (2000 PHASE) | | | | | | | | | | 26 | 43.5 | 5 | 11 | 32 | 125 | | | | |
| MISSION SKILL TRAINING (3000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| INFORMATION DISPLAY MANAGER (IDM) | | | | | | | | | | | | | | | | | | | |
| IDM | 3000 | Level 1 - Perform as an Information Display Manager | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2250 **OR** 2300 **OR** 2350<br><br>**AND**<br><br>2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, | - | - | 3000 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2901, 2921, 2940, 6020, 6023, 8000 | | | |
| IDM | 3005 | Level 2 - Perform as an Information Display Manager | B | - | L/S | - | - | - | * | 0 | | 0 | | 4 | | 2250 **OR** 2300 **OR** 2350 <br><br>**AND**<br><br>2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 6020, 6023, 8000 | - | 3000 | 3005 |
| IDM | 3010 | Level 3 - Perform as an Information Display Manager | B,R,M | - | L/S | - | - | - | 1095 | 0 | | 0 | | 4 | | 2250 **OR** 2300 **OR** 2350 <br><br>**AND**<br><br>2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 3005, 6020, 6023, 8000 | - | 3000,3005 | 3010 |
| IDM | 3015 | Level 4 - Perform as an Information Display Manager | B | - | L/S | - | - | - | * | 0 | | 0 | | 4 | | 2250 **OR** 2300 **OR** 2350 <br><br>**AND**<br><br>2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 3005, 3010, 6020, 6023, 8000 | - | 3000,3005,3010 | 3015 |

DASC 7242 T&R SYLLABUS MATRIX

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | DASC 7242 T&R SYLLABUS MATRIX | | | |
| IDM | 3020 | Level 5 - Perform as an Information Display Manager | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2250 **OR** 2300 **OR** 2350 **AND** 2045, 2055, 2155, 2170, 2200, 2205, 2400, 2405, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2921, 2940, 3000, 3005, 3010, 3015, 6020, 6023, 8000 | - | 3000,3005,3110,3015 | 3020 |
| TOTAL INFORMATION DISPLAY MANAGER SKILLS STAGE (HD) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| TACTICAL AIR REQUEST/HELICOPTER REQUEST (TRHR) | | | | | | | | | | | | | | | | | | | |
| TRHR | 3050 | Level 1 - Perform as a TAR/HR Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 2900, 2901, 2921, 8000 | - | - | 3050 |
| TRHR | 3055 | Level 2 - Perform as a TAR/HR Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 3050, 2900, 2901, 2921, 8000 | - | 3050 | 3055 |
| TRHR | 3060 | Level 3 - Perform as a TAR/HR Net Operator | B,R,M | - | L/S | - | - | - | 1095 | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 3050, 3055, 2900, 2901, 2921, 8000 | - | 3050,3055 | 3060 |
| TRHR | 3065 | Level 4 - Perform as a TAR/HR Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 3050, 3055, 3060, 2900, 2901, 2921, 8000 | - | 3050,3055,3060 | 3065 |
| TRHR | 3070 | Level 5 - Perform as a TAR/HR Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, | - | 3050,3055,3060,3065 | 3070 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 3050, 3055, 3060, 3065, 2900, 2901, 2921, 8000 | | | |
| TOTAL TACTICAL AIR REQUEST/HELICOPTER REQUEST SKILLS STAGE (TRHR) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| TACTICAL AIR COMMAND/DIRECT AIR SUPPORT (TCDS) | | | | | | | | | | | | | | | | | | | |
| TCDS | 3100 | Level 1 - Perform as a TAC/DAS Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 8000 | - | - | 3100 |
| TCDS | 3105 | Level 2 - Perform as a TAC/DAS Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 8000 | - | 3100 | 3105 |
| TCDS | 3110 | Level 3 - Perform as a TAC/DAS Net Operator | B,R,M | - | L/S | - | - | - | 1095 | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 3105, 8000 | - | 3100,3105 | 3110 |
| TCDS | 3115 | Level 4 - Perform as a TAC/DAS Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 3105, 3110, 8000 | - | 3100,3105,3110 | 3115 |
| TCDS | 3120 | Level 5 - Perform as a TAC/DAS Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2210, 2250, 2300, 2400, 2555, 2900, 2901, 2921, 3100, 3105, 3110, 3115, 8000 | - | 3100,3105,3110,3115 | 3120 |
| TOTAL TACTICAL AIR COMMAND/DIRECT AIR SUPPORT SKILLS STAGE (TCDS) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| FIRE SUPPORT COORDINATION (FSC) | | | | | | | | | | | | | | | | | | | |
| FSC | 3150 | Level 1 - Perform as an FSC Net Operator | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, | - | - | 3150 |

| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | | 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 8000 | | | |
| FSC | 3155 | Level 2 - Perform as an FSC Net Operator | | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 8000, 8062 | - | 3155 | 3155 |
| FSC | 3160 | Level 3 - Perform as an FSC Net Operator | | B,R,M | - | L/S | - | - | - | 1095 | | 0 | | 0 | | 4 | 2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 3155, 8000, 8062 | - | 3150,3155 | 3160 |
| FSC | 3165 | Level 4 - Perform as an FSC Net Operator | | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 3155, 3160, 8000, 8062 | - | 3150,3155,3160 | 3165 |
| FSC | 3170 | Level 5 - Perform as an FSC Net Operator | | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2055, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2565, 2900, 2921, 2940, 3150, 3155, 3160, 3165, 8000, 8062 | - | 3150,3155,3160,3165 | 3170 |
| TOTAL FIRE SUPPORT COORDINATION SKILLS STAGE (FSC) | | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| CREW CHIEF (CC) | | | | | | | | | | | | | | | | | | | | |
| CC | 3200 | Level 1 - Perform as a DASC Crew Chief | | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, | - | - | 3200 |

| | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | |
| | | | | | | | | | | | | | | | | | 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063 | | |
| CC | 3205 | Level 2 - Perform as a DASC Crew Chief | | B | - | L/S | - | - | - | * | 0 | | 0 | | 4 | | MarineNet Course: Communications Plans and Orders (2540). 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, | - | 3200 | 3205 |

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | DEVICE # | DEVICE OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 3160, 3165, 3170, 3200, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063 | | | |
| CC | 3210 | Level 3 - Perform as a DASC Crew Chief | B,R,M | - | L/S | - | - | - | 1095 | | 0 | | 0 | | 4 | MarineNet Courses: Logistics Planning Considerations (0401AO) and Communications Plans and Orders (2540). 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063 | - | 3200,3205 | 3210 |
| CC | 3215 | Level 4 - Perform as a DASC Crew Chief | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | MarineNet Course: Communications Plans and Orders (2540). 2045, 2050, | - | 3200,3205,3210 | 3215 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063 | | | |
| CC | 3220 | Level 5 - Perform as a DASC Crew Chief | B | - | L/S | - | - | - | * | 0 | | 0 | | 4 | | MarineNet Course: Communications Plans and Orders (2540). 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2480, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, | - | 3200,3205,3210,3215 | 3220 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |

<table>
<tr><td colspan="16" align="center">DASC 7242 T&R SYLLABUS MATRIX</td></tr>
</table>

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8041, 8062, 8063 | | | |
| TOTAL CREW CHIEF SKILLS STAGE (CC) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| DASC CHIEF (DC) | | | | | | | | | | | | | | | | | | | |
| DC | 3250 | Conduct the duties of a DASC Chief during a field deployment/exercise | B | - | L/S | - | - | - | * | 0 | | 0 | | 8 | | MarineNet Course: Communications Plans and Orders (2540). 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2500, 2505, 2510, 2515, 2525, 2530, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, | - | - | 3250 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |

<div align="center">DASC 7242 T&R SYLLABUS MATRIX</div>

| STAGE | CODE | TITLE | POI | E | TYPE | # | OPTION | COND | REFLY | # | TIME | # | TIME | # | TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6225, 8000, 8020, 8040, 8060, 8060 | | | |
| **TOTAL DASC CHIEF SKILLS STAGE (DC)** | | | | | | | | | | 0 | 0 | 0 | 0 | 1 | 8 | | | | |
| **AIR CONTROL RECORDER (ACR)** | | | | | | | | | | | | | | | | | | | |
| ACR | 3270 | Level 1 - Perform as an Air Control Recorder | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 8000, 8041 | - | - | - |
| ACR | 3275 | Level 2 - Perform as an Air Control Recorder | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2250 **OR** 2300 **OR** 2350 <br><br> **AND** <br><br> 2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, 8000, 8041 | - | 3270 | - |
| ACR | 3280 | Level 3 - Perform as an Air Control Recorder | B,R,M | - | L/S | - | - | - | 1095 | | 0 | | 0 | | 4 | 2250 **OR** 2300 **OR** 2350 <br><br> **AND** <br><br> 2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, | - | 3270,3275 | - |

| STAGE | CODE | TITLE (EVENT) | POI | E | DEVICE TYPE | DEVICE # | DEVICE OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 3275, 8000, 8041 | | | |
| ACR | 3285 | Level 4 - Perform as an Air Control Recorder | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2250 **OR** 2300 **OR** 2350 **AND** 2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, 3275, 3280, 8000, 8041 | - | 3270,3275,3280 | - |
| ACR | 3290 | Level 5 - Perform as an Air Control Recorder | B | - | L/S | - | - | - | * | | 0 | | 0 | | 4 | 2250 **OR** 2300 **OR** 2350 **AND** 2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2900, 2901, 2910, 2911, 2940, 3270, 3275, 3280, 3285, 8000, 8041 | - | 3270,3275,3280,3285 | - |
| TOTAL AIR CONTROL RECORDER SKILLS STAGE (ACR) | | | | | | | | | | 0 | 0 | 0 | 0 | 5 | 20 | | | | |
| TOTAL MISSION SKILL PHASE (3000 PHASE) | | | | | | | | | | 0 | 0 | 0 | 0 | 31 | 128 | | | | |
| CORE PLUS SKILL TRAINING (4000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| AIR SUPPORT OPERATOR (ASO) | | | | | | | | | | | | | | | | | | | |
| ASO | 4100 | Perform digital air control | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2809, 2811, 8000, 8020, 8040 | - | - | - |
| TOTAL AIR SUPPORT OPERATOR SKILLS STAGE (ASO) | | | | | | | | | | 0 | 0 | 1 | 4 | 0 | 0 | | | | |
| CONTROL (CTRL) | | | | | | | | | | | | | | | | | | | |
| CTRL | 4200 | Level 1 - Control FW or RW aircraft | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050,2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, | - | - | 4200 |

Table header top section:

| | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |

DASC 7242 T&R SYLLABUS MATRIX

| STAGE | CODE | TITLE (EVENT) | POI | E | TYPE | # | OPTION (DEVICE) | COND | REFLY | # | TIME (GROUND/ACADEMIC EVENTS) | # | TIME (SIM EVENTS) | # | TIME (LIVE EVENTS) | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 4220, 4225, 4230, 6020, 6023, 8000, 8020, 8040, 8062, 8063 | | | |
| CTRL | 4205 | Level 2 - Control FW or RW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | 4 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 4200, 4220, 4225, 4230, 6020, 6023, 8000, 8020, 8040, 8062, 8063 | - | - | 4205 |
| CTRL | 4210 | Level 3 - Control FW or RW aircraft | B | - | L/S | - | - | - | * | | 0 | | 0 | 4 | | 2045, 2050,2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, | - | - | 4210 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2850, 2851, 2900, 2901, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4225, 4230, 6020, 6023, 8000, 8020, 8040, 8062, 8063 | | | |
| CTRL | 4220 | Extract critical information from the ATO, ACO, and SPINS documents | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8000, 8020, 8040 | - | - | - |
| CTRL | 4225 | Perform as a Tactical Air Director | B | - | S | - | - | - | * | | 0 | | 4 | | 0 | 4220, 8000, 8020, 8040 | - | - | - |
| CTRL | 4230 | Perform as a Helicopter Director | B | - | S | - | - | - | * | | 0 | | 4 | | 0 | 4220, 8000, 8020, 8040 | - | - | - |
| TOTAL CONTROL SKILLS STAGE (CTRL) | | | | | | | | | | 0 | 0 | 3 | 12 | 3 | 10 | | | | |
| HELICOPTER DIRECTOR (HD) | | | | | | | | | | | | | | | | | | | |
| HD | 4300 | Level 1 - Control RW aircraft | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, | - | - | 4300 |

| | | | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | | POI | E | | DEVICE | | | COND | REFLY | | | | | | | PREREQ | | | |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | | | 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | | | |
| HD | 4305 | Level 2 - Control RW aircraft | | B | - | S/L | - | - | - | - | * | 0 | | 4 | | 0 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | - | - | 4305 |
| HD | 4310 | Level 3 - Control RW aircraft | | B,R,M | - | S/L | - | - | - | - | 1095 | 0 | | 4 | | 0 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, | - | - | 4310 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4305, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | | | |
| HD | 4315 | Level 4 - Control RW aircraft | B | - | S/L | - | - | - | * | 0 | | 4 | | 0 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4305, 4920, 6020, 6023, | - | 4310 | 4315 |

DASC 7242 T&R SYLLABUS MATRIX

| | | | | | DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **STAGE** | **EVENT** | | **POI** | **E** | **DEVICE** | | | **COND** | **REFLY** | **GROUND/ ACADEMIC EVENTS** | | **SIM EVENTS** | | **LIVE EVENTS** | | **PREREQ** | **NOTES** | **CHAIN** | **EVENT CONV** |
| | **CODE** | **TITLE** | | | **TYPE** | **#** | **OPTION** | | | **#** | **TIME** | **#** | **TIME** | **#** | **TIME** | | | | |
| | | | | | | | | | | | | | | | | 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | | | |
| HD | 4320 | Level 5 - Control RW aircraft | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4300, 4305, 4310, 4315, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | - | 4310,4315 | 4320 |
| **TOTAL HELICOPTER DIRECTOR SKILLS STAGE (HD)** | | | | | | | | | | 0 | 0 | 5 | 20 | 0 | 0 | | | | |
| **TACTICAL AIR DIRECTOR (TAD)** | | | | | | | | | | | | | | | | | | | |
| TAD | 4350 | Level 1 - Control FW aircraft | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, | - | - | 4350 |

| | | DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | | | |
| TAD | 4355 | Level 2 - Control FW aircraft | B | - | S/L | - | - | - | * | 0 | | 4 | | 0 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | - | - | 4355 |

| | | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | | PREREQ | | | |
| | CODE | TITLE | | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | |

| | | | | | | DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TAD | 4360 | Level 3 - Control FW aircraft | | B,R,M | - | S/L | - | - | - | 1095 | 0 | | 4 | | 0 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4355, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | - | - | 4360 |
| TAD | 4365 | Level 4 - Control FW aircraft | | B | - | S/L | - | - | - | * | 0 | | 4 | | 0 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, | - | 4360 | 4365 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4355, 4360, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | | | |
| TAD | 4370 | Level 5 - Control FW aircraft | B | - | S/L | - | - | - | * | | 0 | | 4 | | 0 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4220, 4350, 4355, 4360, 4365, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | - | 4360,4365 | 4370 |
| TOTAL TACTICAL AIR DIRECTOR SKILLS STAGE (TAD) | | | | | | | | | | 0 | 0 | 5 | 20 | 0 | 0 | | | | |
| FAMILIARIZATION (FAM) | | | | | | | | | | | | | | | | | | | |
| FAM | 4400 | Observe the configuration and operation of a LAAD Battalion | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8006 | - | - | 4400 |

| DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| FAM | 4410 | Observe the configuration and operation of a Supporting Arms Coordination Center (SACC) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8062, 8063, 8065 | - | - | 4410 |
| FAM | 4415 | Observe the configuration and operation of a Navy Tactical Air Control Center/Helicopter Coordination Section (NTACC/HCS) | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8062, 8063, 8065 | - | - | 4415 |
| FAM | 4420 | Observe tactical Marine Air Traffic Control | B | - | L | - | - | - | * | | 0 | | 0 | | 2 | 8001, 8003, 8005 | - | - | - |
| TOTAL FAMILIARIZATION SKILLS STAGE (FAM) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 8 | | | | |
| TACTICAL DATA LINKS (TDL) | | | | | | | | | | | | | | | | | | | |
| TDL | 4813 | Identify tactical data link orders associated with Network Participating Group (NPG) 8 and 9 | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4815 | State the characteristics of Link 11 | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4816 | State the characteristics of Link 11B | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4817 | Define terms associated with Link 16 | B | - | G | - | - | - | * | | 3 | | 0 | | 0 | - | - | - | - |
| TDL | 4823 | State the characteristics of the Variable Message Format (VMF) | B | - | G | - | - | - | * | | 1 | | 0 | | 0 | - | - | - | - |
| TDL | 4830 | Operate an Air Defense Systems Integrator (ADSI) | B | - | G | - | - | - | * | | 2 | | 0 | | 0 | - | - | - | - |
| TDL | 4832 | Operate Link 11 | B | - | L | - | - | - | * | | 0 | | 0 | | 4 | 2800, 2814, 2820, 4815 | - | - | - |
| TDL | 4836 | Operate Link 16 | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2814, 2818, 2820, 4817 | - | - | - |
| TDL | 4838 | Operate JREAP A | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2814, 2819, 2820 | - | - | - |
| TDL | 4840 | Operate JREAP B | B | - | L | - | - | - | * | | 0 | | 0 | | 8 | 2800, 2814, 2819, 2820 | - | - | - |

| STAGE | EVENT CODE | EVENT TITLE | POI | E | DEVICE TYPE | DEVICE # | DEVICE OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
| TDL | 4842 | Operate JREAP C | B | - | L | - | - | - | * | | 0 | | 0 | | 3 | 2800, 2814, 2819, 2820 | - | - | - |
| TOTAL TACTICAL DATA LINKS SKILLS STAGE (TDL) | | | | | | | | | | 6 | 9 | 0 | 0 | 5 | 31 | | | | |
| COMMAND AND CONTROL SYSTEMS (C2SYS) | | | | | | | | | | | | | | | | | | | |
| C2SYS | 4913 | Import an Airspace Group | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | TBMCS | - | 2913 |
| C2SYS | 4917 | Publish the Air Tasking Order | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | TBMCS | - | 2917 |
| C2SYS | 4920 | Operate AFATDS | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | AFATDS | - | 2920 |
| C2SYS | 4922 | Operate Blue Force Tracker | B | - | G | - | - | - | * | | 4 | | 0 | | 0 | - | ADSI | - | - |
| TOTAL COMMAND AND CONTROL SYSTEMS SKILLS STAGE (C2SYS) | | | | | | | | | | 4 | 16 | 0 | 0 | 0 | 0 | | | | |
| TOTAL CORE PLUS SKILL PHASE (4000 PHASE) | | | | | | | | | | 10 | 25 | 14 | 56 | 12 | 49 | | | | |
| TOTAL 2000, 3000, AND 4000 PHASE | | | | | | | | | | 36 | 68.5 | 19 | 67 | 75 | 302 | | | | |
| INSTRUCTOR TRAINING (5000 PHASE EVENTS) | | | | | | | | | | | | | | | | | | | |
| INSTRUCTOR UNDER TRAINING (IUT) | | | | | | | | | | | | | | | | | | | |
| BASIC INSTRUCTOR (BI) | | | | | | | | | | | | | | | | | | | |
| IUT | 5000 | Introduce principles of instruction | B | - | G | - | - | - | * | | 0 | | 0 | | 2 | Recommended by SI or WTI | - | - | 5000 |
| IUT | 5010 | Understand the structure of an event | B | - | G | - | - | - | * | | 0 | | 0 | | 2 | - | - | - | 5110 |
| IUT | 5020 | Conduct a period of instruction on a T&R event | B,R | - | G | - | - | - | 365 | | 0 | | 0 | | 12 | 5000, 5010 | - | 5110 | 5130 |
| TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI) | | | | | | | | | | 0 | 0 | 0 | 0 | 3 | 16 | | | | |
| SENIOR INSTRUCTOR (SI) | | | | | | | | | | | | | | | | | | | |
| IUT | 5100 | Understand Aviation T&R program | B | - | G | - | - | - | * | | 0 | | 0 | | 2 | 5000, 5010, 5020, 6320 | - | - | 5100 |
| IUT | 5110 | Conduct Instructor Evaluations | B,R | - | G | - | - | - | 365 | | 0 | | 0 | | 4 | 5000, 5010, 5020, 5100 | - | 5020 | 5110 |
| IUT | 5120 | Perform T&R Administration | B | - | G | - | - | - | * | | 0 | | 0 | | 2 | 5000, 5010, 5020, 5100, 5110 | - | - | 5120 |
| IUT | 5130 | Develop a training plan | B | - | G | - | - | - | * | | 0 | | 0 | | 2 | 5000, 5010, 5020, 5100, 5110, 5120 | - | - | 5130 |
| TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI) | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 10 | | | | |
| TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT) | | | | | | | | | | 0 | 0 | 0 | 0 | 7 | 26 | | | | |
| REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE) | | | | | | | | | | | | | | | | | | | |
| QUALIFICATIONS (QUAL) | | | | | | | | | | | | | | | | | | | |
| QUAL | 6200 | Qualify as an ACR | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | 2250 **OR** 2300 **OR** 2350 | - | - | 6200 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | **AND**<br><br>2045, 2050, 2055, 2060, 2065, 2155, 2170, 2210, 2400, 2405, 2803, 2811, 2812, 2814, 2821, 2900, 2901, 2910, 2911, 2940, 2155, 3270, 3275, 3280, 3285, 3290, 8000 | | | |
| QUAL | 6205 | Qualify as a TAR/HR Operator | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | 2045, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2250, 2400, 2405, 2900, 2901, 2902, 2911, 2940, 3050, 3055, 3060, 3065, 3070, 8000 | - | - | 6205 |
| QUAL | 6210 | Qualify as a TAC/DAS Net Operator | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | 2045, 2055, 2060, 2100, 2155, 2170, 2205, 2210, 2300, 2400, 2405, 2555, 2900, 2901, 2902, 2905, 2910, 2911, 2940, 3100, 3105, 3110, 3115, 3120, 8000 | - | - | 6210 |
| QUAL | 6215 | Qualify as FSC net Operator | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | 2045, 2055, 2100, 2110, 2115, 2120, 2155, 2165, 2170, 2205, 2350, 2355, 2400, 2405, 2565, 4920, 2940, 3150, 3155, 3160, 3165, 3170, 8000, 8062 | - | - | 6215 |
| QUAL | 6220 | Qualify as an IDM | B | - | L | - | - | - | * | | 0 | | 0 | | 0.5 | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, | - | - | 6220 |

| | | | | | | | | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | | | | | PREREQ | | | |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | |
| | | | | | | | | | | 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 4920, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 8000, 8020, 8041, 8062, 8063 | | | | | | | |
| QUAL | 6225 | Qualify as a DASC CC | B | - | L | - | - | - | * | 0 | | 0 | | 2 | | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2555, 2565, 2800, 2803, 2808, 2809, 2810, 2811, 2812, 2814, 2818, 2819, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, | - | - | 6225 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| | | | | | | | | | | | | | | | | 3215, 3220, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8060, 8080 | | | |
| QUAL | 6230 | Qualify as a Helicopter Director (HD) | B | - | L | - | - | - | * | 0 | | 0 | | 0.5 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4300, 4305, 4310, 4315, 4320, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | - | - | 6230 |
| QUAL | 6235 | Qualify as a Tactical Air Director (TAD) | B | - | L | - | - | - | * | 0 | | 0 | | 0.5 | | 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, 2350, 2355, 2400, 2405, 2555, 2565, 2800, 2803, 2808, 2810, | - | - | 6235 |

| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 2811, 2812, 2814, 2818, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3270, 3275, 3280, 3285, 3290, 4200, 4205, 4220, 4350, 4355, 4360, 4365, 4370, 4920, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 8000, 8020, 8040, 8062, 8063 | | | |
| TOTAL QUALIFICATIONS STAGE (QUAL) | | | | | | | | | | 0 | 0 | 0 | 0 | 8 | 5.5 | | | | |
| DESIGNATIONS (DESG) | | | | | | | | | | | | | | | | | | | |

| | DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| DESG | 6300 | Designation as a DASC CHIEF | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | MarineNet Course: Communications Plans and Orders (2540). MCI2043022, Amphibious Embarkation, 2045, 2050, 2055, 2060, 2065, 2100, 2110, 2115, 2120, 2130, 2150, 2155, 2160, 2165, 2170, 2200, 2205, 2210, 2250, 2300, , 2350, 2355, 2400, 2405, 2455, 2460, 2465, 2475, 2480, 2500, 2505, 2510, 2515, 2520, 2525, 2530, 2555, 2565, 2800, 2803, 2808, 2809, 2810, 2811, 2812, 2814, 2818, 2819, 2820, 2821, 2850, 2851, 2900, 2901, 2902, 2905, 2910, 2911, 2921, 2940, 3000, 3005, 3010, 3015, 3020, 3050, 3055, 3060, 3065, 3070, 3100, 3105, 3110, 3115, 3120, 3150, 3155, 3160, 3165, 3170, 3200, 3205, 3210, 3215, 3220, 3250, 3270, 3275, 3280, 3285, 3290, 6020, 6023, 6200, 6205, 6210, 6215, 6220, 6220, 6220, 6225, 8000, 8020, 8040, 8060, 8080 | - | - | 6300 |
| DESG | 6320 | Designation as a Basic Instructor (BI) | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 5000, 5010, 5020 | - | - | 6320 |
| DESG | 6321 | Designation as a Senior Instructor (SI) | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 5000, 5010, 5020, 5100, 5110, 5120, 5130 | - | - | 6321 |

| STAGE | CODE | EVENT TITLE | POI | E | DEVICE TYPE | # | OPTION | COND | REFLY | GROUND/ ACADEMIC EVENTS # | GROUND/ ACADEMIC EVENTS TIME | SIM EVENTS # | SIM EVENTS TIME | LIVE EVENTS # | LIVE EVENTS TIME | PREREQ | NOTES | CHAIN | EVENT CONV |
|-------|------|------|-----|---|------|---|--------|------|-------|---|------|---|------|---|------|--------|-------|-------|------|
| | | | | | | | | | | | | | | | | | | | |
| DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | | | |
| DESG | 6322 | Designation as a Weapons and Tactics Instructor (WTI) | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | 6000 | - | - | 6322 |
| colspan=10 | TOTAL DESIGNATIONS STAGE (DESG) | 4 | 2 | 0 | 0 | 0 | 0 | | | | |
| TRACKING CODES FOR SCHOOLS (SCHL) | | | | | | | | | | | | | | | | | | |
| SCHL | 6000 | Weapons and Tactics Instructor (WTI) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6000 |
| SCHL | 6010 | Airspace Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6011 | Personnel Recovery Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6012 | Plans/Ops Technician Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6015 | Joint Air Operation Center Command and Control Course (JAOC2C) Airspace Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6020 |
| SCHL | 6016 | Joint Air Operations Senior Staff Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6020 | Link 16 Basics Course (JT-100) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6020 |
| SCHL | 6021 | Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6023 | Multi TDL  Planner Course (JT-201) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6025 |
| SCHL | 6025 | Link 16 Unit Manager (LUM) Course (JT-220) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | 6025 |
| SCHL | 6026 | Joint Interface Control Officer (JICO) (JT-301) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6027 | Advanced JICC Operator Course (JT-310) | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6067 | Military Airspace Management Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| SCHL | 6082 | Joint Firepower Course | B | - | G | - | - | - | * | | 0 | | 0 | | 0 | - | - | - | - |
| colspan=10 | TOTAL SCHOOL CODES STAGE (SCHL) | 14 | 0 | 0 | 0 | 0 | 0 | | | | |
| LICENSES CODES (LIC) | | | | | | | | | | | | | | | | | | |
| LIC | 6400 | Track HMMWV licenses | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6400 |

| | | DASC 7242 T&R SYLLABUS MATRIX | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | EVENT | | POI | E | DEVICE | | | COND | REFLY | GROUND/ ACADEMIC EVENTS | | SIM EVENTS | | LIVE EVENTS | | PREREQ | NOTES | CHAIN | EVENT CONV |
| | CODE | TITLE | | | TYPE | # | OPTION | | | # | TIME | # | TIME | # | TIME | | | | |
| LIC | 6405 | Track issuance of MK23 MTVR license | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6405 |
| LIC | 6410 | Track issuance of MK27 MTVR license | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6410 |
| LIC | 6415 | Track explosive and corrosives HMMWV license | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6415 |
| TOTAL LICENSES CODES STAGE (LIC) | | | | | | | | | | 4 | 2 | 0 | 0 | 0 | 0 | | | | |
| OPERATIONS CODES (OPS) | | | | | | | | | | | | | | | | | | | |
| OPS | 6455 | Track participation MEU deployments | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6455 |
| OPS | 6465 | Track completion of Range Safety Officers (RSO) courses | B | - | G | - | - | - | * | | 0.5 | | 0 | | 0 | - | - | - | 6465 |
| TOTAL OPERATIONS CODES STAGE (OPS) | | | | | | | | | | 2 | 1 | 0 | 0 | 0 | 0 | | | | |
| TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS PHASE (RQCD) | | | | | | | | | | 24 | 5 | 0 | 0 | 8 | 5.5 | | | | |

8.15  <u>ADDITIONAL MATRIX (ORDNANCE/RANGES)</u>  None.

8.16  <u>ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS</u>  None.

8.17  <u>TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM)</u>  None.

8.18  <u>AVIATION TRAINING FORMS (ATF)</u>.  A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3
website, https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx