



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
3000 MARINE CORPS PENTAGON
WASHINGTON, DC 20350-3000

NAVMC 3500.120C
PSD
18 Oct 22

NAVMC 3500.120C

From: Commandant of the Marine Corps
To: Distribution List

Subj: DIRECT AIR SUPPORT CENTER TRAINING AND READINESS MANUAL

Ref: (a) NAVMC 3500.14E

Encl: (1) New Chapter inserts to NAVMC 3500.120C

1. Purpose

a. Per the reference, the Direct Air Support Center (DASC) Training and Readiness (T&R) Manual, contained in enclosure (1) provides revised standards, regulations, and policy regarding the training of DASC crew members.

b. Enclosure (1) may be accessed in the Marine Sierra Hotel Aviation Readiness Program automated functionality known as T&R Builder. Access may be granted at <https://msharp.usmc.mil/msharp/>.

2. Cancellation. NAVMC 3500.120B.

3. Scope. Highlights of major changes are:

a. Chapter 1

(1) Updated the mission essential task (MET) list to include the newly added core plus MET, Support Air Operations in Maritime Surface Warfare.

(2) Adjusted the core model minimum requirement for the air support element and air support liaison team crews, to reduce redundant positions and form more efficient crew structures.

b. Chapter 2. No Changes.

c. Chapter 3. Reinstated the option of air support liaison team officer in charge (OIC) or air support element OIC as a prerequisite for senior air director qualification.

d. Chapter 4

(1) Removed air control recorder and tactical air command / direct air support qualification requirements as prerequisites to information display manager.

(2) Added new tactical data link events and moved events that were in the core plus phase to the core and mission phases.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

4. Information. Commanding General (CG), Training and Education Command (TECOM) will update the DASC T&R Manual as necessary to provide current and relevant training standards to commanders. All questions pertaining to this manual should be directed to: CG, TECOM, Policy and Standards Division, 2007 Elliot Road, Quantico, Virginia 22134.

5. Command. This Manual is applicable to the Marine Corps Total Force.

6. Certification. Reviewed and approved this date.



K. M. IIAMS
Commanding General
Training and Education Command
By direction

DISTRIBUTION: PCN 10031982400

CHAPTER 1

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1.0 TRAINING AND READINESS REQUIREMENTS

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 MISSION

1.1.1 Tactical and Reserve Squadron/Unit

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.

1.1.2 Fleet Replacement Squadron/Unit/FRD

1.2 TABLE OF ORGANIZATION (T/O)

As of this publication date, the Marine Air Support Squadron (MASS) is authorized:

1.2.1 Tactical and Reserve Squadron/Unit

MASS							
TABLE OF ORGANIZATION T/O							
	5902 (DASC AC20 (7202))	5970 (DASC AC20 (7202))	7202 (DASC AC20 (7202))	7208 (DASC ASCO (7208))	5939 (DASC AC20 (7202))	5974 (DASC AC20 (7202))	7242 (DASC ASOO (7242))
SQDN	1	1	1	33	25	6	77

RULE	P1	P2	P3	P4
Personnel Strength	≥90%	80-89%	70-79%	≤70%
Critical MOS	>85%	75-84%	65-74%	≤65%

1.2.2 Fleet Replacement Squadron/Unit/FRD

RULE	P1	P2	P3	P4
Personnel Strength	≥90%	80-89%	70-79%	≤70%
Critical MOS	>85%	75-84%	65-74%	≤65%

1.3 MISSION ESSENTIAL TASK LIST (METL)

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.

MASS		
MISSION ESSENTIAL TASK LIST (METL)		
MET	ABBR	DESCRIPTION
CORE METs		
MCT 5.3.5.3.1	CAM	Conduct Airspace Management
MCT 5.3.5.3.3	IAS	Process Requests for Immediate Air Support
MCT 5.3.5.3.4	DASO	Conduct Continuous Direct Air Support Operations While Echeloning
MCT 5.3.5.4.3	PCON	Conduct Procedural Control
MCT 5.3.5.6	CAOFSMC	Coordinate Aviation Operations with Area of Operations (AO) Fire Support Coordination Measures (FSCM)
CORE PLUS METs		
MCT 5.3.2.7.2.4	AOMSW	Support Air Operations In Maritime Surface Warfare

1.4 MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION

MASS							
MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION							
MET	ABBR	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoA&M	AerRec
CORE METs							
MCT 5.3.5.3.1	CAM	X	X			X	X
MCT 5.3.5.3.3	IAS	X	X		X	X	X
MCT 5.3.5.3.4	DASO	X	X			X	X
MCT 5.3.5.4.3	PCON	X	X			X	X
MCT 5.3.5.6	CAOFSMC	X	X		X	X	X
CORE PLUS METs							
MCT 5.3.2.7.2.4	AOMSW	X	X			X	X

1.5 MET TO CORE/MISSION/CORE PLUS SKILL MATRIX

Depicts the relationship between a MET and each core/mission/core plus/mission plus skill associated with the MET for readiness reporting and resource allocation purposes. There should normally be a one-to-one relationship between the MET and a corresponding mission skill. Shading indicates core plus.

MASS								
MET TO CORE/MISSION/CORE PLUS/MISSION PLUS SKILL MATRIX								
	METS		MCT 5.3.5.3.1 CAM	MCT 5.3.5.3.3 IAS	MCT 5.3.5.3.4 DASO	MCT 5.3.5.4.3 PCON	MCT 5.3.5.6 CAOFSMC	MCT 5.3.2.7.2.4 AOMSW
Core Skill	ACAD	CORE METs	X	X	X	X	X	
	COMM		X	X	X	X	X	
	EQUIP		X	X	X	X	X	
	EXT		X	X	X	X	X	
	DOIC		X	X	X	X	X	
	CTRL		X	X	X	X	X	
	SAD		X	X	X	X	X	
	TDL		X	X	X	X	X	
	C2SYS		X	X	X	X	X	
	ASO		X	X	X	X	X	
	ACR		X	X	X	X	X	
	FSC		X	X	X	X	X	
	TCDS		X	X	X	X	X	
	TRHR		X	X	X	X	X	
	IDM		X	X	X	X	X	
	CC		X	X	X	X	X	
	DC		X	X	X	X	X	
Mission Skill	HD		X	X	X	X	X	
	TAD		X	X	X	X	X	
	SAD		X	X	X	X	X	
	ASLT		X	X	X	X	X	
	ASE		X	X	X	X	X	
	DOIC		X	X	X	X	X	
	CTRL		X	X	X	X	X	
	ACR		X	X	X	X	X	
	CC		X	X	X	X	X	
	DC		X	X	X	X	X	
	FSC		X	X	X	X	X	
	IDM		X	X	X	X	X	
	TCDS		X	X	X	X	X	
	TRHR		X	X	X	X	X	
	TDL		X	X	X	X	X	
Core Plus Skill	ASE							X
	ACAD							X
	CTRL							X
	FAM							X
	HD							X
	TAD							X

MASS									
MET TO CORE/MISSION/CORE PLUS/MISSION PLUS SKILL MATRIX									
	METS		MCT 5.3.5.3.1 CAM	MCT 5.3.5.3.3 IAS	MCT 5.3.5.3.4 DASO	MCT 5.3.5.4.3 PCON	MCT 5.3.5.6 CAOFSMC		MCT 5.3.2.7.2.4 AOMSW
Mission Plus Skill	TDL								X
	C2SYS								X
	CTRL								X

1.6 MISSION ESSENTIAL TASK (MET) OUTPUT STANDARDS

The following MET output standards are the required level of performance a squadron/unit must be capable of sustaining during contingency/combat operations by MET to be considered MET-ready. Output standards will be demonstrated through the incorporation of unit training events. A core capable squadron/unit can sustain the number of sorties listed below on a daily basis during contingency/combat operations. The sortie rates are variable, based (for example in this illustration on a 1.5-hour average sortie duration). It assumes >70% mission capable (MC) with the associated aircraft survivability equipment, mission systems and mission sets required to conduct the MET and >90% T/O aircrew on hand. If unit MC aircraft is <70% or T/O aircrew <90%, core capability will be degraded by a like percentage.

MASS		
MET OUTPUT STANDARDS		
MCT	ABBR	NUMBER OF CREWS
AVIATION GROUND CORE METL OUTPUT STANDARDS		
MCT 5.3.5.3.1	CAM	4 DASC 3 ASE 3 ASLT SQDN
MCT 5.3.5.3.3	IAS	4 DASC 3 ASE 3 ASLT SQDN
MCT 5.3.5.3.4	DASO	4 DASC 3 ASE 3 ASLT SQDN
MCT 5.3.5.4.3	PCON	4 DASC 3 ASE 3 ASLT SQDN
MCT 5.3.5.6	CAOFSMC	4 DASC 3 ASE 3 ASLT SQDN
AVIATION GROUND CORE PLUS METL OUTPUT STANDARDS		
MCT 5.3.2.7.2.4	AOMSW	AOMSW TEAM SQDN

1.7 CORE MODEL MINIMUM REQUIREMENTS (CMMR) / ADVANCED AND BASELINE TRAINING STANDARDS FOR READINESS REPORTING (DRRS-MC)

The paragraphs and tables below delineate the minimum crewmember qualifications, designations, and/or training for the Advanced and Baseline Training Standards.

1.7.1 CMMR / Advanced Training Standard

The minimum crewmember qualifications, designations, and/or training required to execute the MET output standards of paragraph 1.6. Units can be expected to perform a critical role in a mission or OPLAN and normally requires external MAGTF support.

1.7.2 Baseline Training Standard

The level of readiness expected from a unit sustained through core training at home station. Normally equates to approximately 70% of CMMR.

In the matrix below the first number in the “crews trained” columns reflect the CMMR or advanced training standard. The numbers in parentheses indicate the baseline training standard.

MASS								
CMMR / ADVANCED AND BASELINE READINESS REPORTING MATRIX								
CREW POSITION			MET					
				7202	5970	5902		
CORE METs				MCT 5.3.5.3.1 CAM	MCT 5.3.5.3.3 IAS	MCT 5.3.5.3.4 DASO	MCT 5.3.5.4.3 PCON	MCT 5.3.5.6 CAOFSMC
CORE PLUS METs				MCT 5.3.2.7.2.4 AOMSW				

MASS				
CMMR / ADVANCED AND BASELINE READINESS REPORTING MATRIX				
MET				
	5974	5939	7208	
			CTRL, Helo Dir, TAD, SAD, ASLT OIC, ASE OIC, Basic Instr, DASC OIC, WTI, Senior Instr	MCT 5.3.5.3.1 CAM
			CTRL, Helo Dir, TAD, SAD, ASLT OIC, ASE OIC, Basic Instr, DASC OIC, WTI, Senior Instr	MCT 5.3.5.3.3 IAS
			CTRL, Helo Dir, TAD, SAD, ASLT OIC, ASE OIC, DASC OIC, Basic Instr, WTI, Senior Instr	MCT 5.3.5.3.4 DASO
			CTRL, Helo Dir, TAD, SAD, ASLT OIC, ASE OIC, WTI, DASC OIC, Basic Instr, Senior Instr	MCT 5.3.5.4.3 PCON
			CTRL, Helo Dir, TAD, SAD, ASLT OIC, ASE OIC, WTI, Basic Instr, DASC OIC, Senior Instr, FLCI	MCT 5.3.5.6 CAOFSMC
			Helo Dir, TAD, WTI, Basic Instr, Senior Instr	MCT 5.3.2.7.2.4 AOMSW

MASS			
CMMR / ADVANCED AND BASELINE READINESS REPORTING MATRIX			
CREWS TRAINED		MET	
SQDN	7242		
4(2)	ACR, Helo Dir, TARHR, TACDAS, TAD, FSCNO, IDM, DASC CC, Basic Instr, WTI, Senior Instr, FLCI, DASC CHF	MCT 5.3.5.3.1 CAM	
4(2)	ACR, TARHR, Helo Dir, TACDAS, TAD, FSCNO, IDM, DASC CC, Basic Instr, WTI, Senior Instr, DASC CHF	MCT 5.3.5.3.3 IAS	
4(2)	ACR, TARHR, Helo Dir, TAD, TACDAS, FSCNO, IDM, DASC CC, Basic Instr, WTI, Senior Instr, DASC CHF	MCT 5.3.5.3.4 DASO	
4(2)	ACR, Helo Dir, TARHR, TAD, TACDAS, FSCNO, IDM, DASC CC, WTI, Basic Instr, Senior Instr, DASC CHF	MCT 5.3.5.4.3 PCON	
4(2)	ACR, Helo Dir, TARHR, TAD, TACDAS, FSCNO, IDM, DASC CC, Basic Instr, WTI, Senior Instr, DASC CHF	MCT 5.3.5.6 CAOFSMC	
4(1)	ACR, FSCNO, WTI, Basic Instr, Senior Instr	MCT 5.3.2.7.2.4 AOMSW	

MASS				
COMBAT LEADERSHIP				
DESIGNATION		WTI	DASC OIC	DASC CHF
SQDN	7202	1		
	7208	1	1	
	7242	2		1

1.8 CORE MODEL TRAINING STANDARD (CMTS)

The CMTS is the optimum training standard reflecting the number of crews trained to CSP/MSP and core plus proficiency, per crew position to execute each stage of flight as detailed below. The CMTS Matrix depicts the training goal and optimum depth of training desired for each squadron as they develop their squadron training plan. It is not utilized for readiness reporting (DRRS-MC) purposes. At a minimum, the CMTS shall enable a squadron to form CMMR crews for mission skills (and mission plus skills when required).

1.9 INSTRUCTOR DESIGNATIONS

1.9.1 Tactical and Reserve Unit

MASS			
INSTRUCTOR DESIGNATIONS			
DESIGNATION	SQDN		
	7202	7208	7242
Basic Instr		6	6
Senior Instr		4	4
FLCI		0	

1.9.2 Fleet Replacement Squadron/Unit/FRD

1.10 CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (CQD)

1.10.1 Tactical and Reserve Squadron

MASS			
CERTIFICATIONS, QUALIFICATIONS, & DESIGNATIONS			
CREDENTIAL	SQDN		
	7202	7208	7242
Qualification			
Helo Dir		4	0
SAD		4	
CTRL		3	
ASLT OIC		3	
TAD		4	0
ASE OIC		3	
ACR			11
IDM			4

MASS			
CERTIFICATIONS, QUALIFICATIONS, & DESIGNATIONS			
CREDENTIAL	SQDN		
	7202	7208	7242
FSCNO			10
DASC CC			4
TACDAS			4
TARHR			10

1.10.2 Fleet Replacement Squadron

Appendix A - MET WORKSHEETS

CORE

CORE PLUS

Appendix B - ACRONYMS

Appendix C - EXTERNAL RESOURCES

Range Requirements			
ABBR	Long Name	Description	Category

Appendix D - T&R REPORTS

CHAPTER 2

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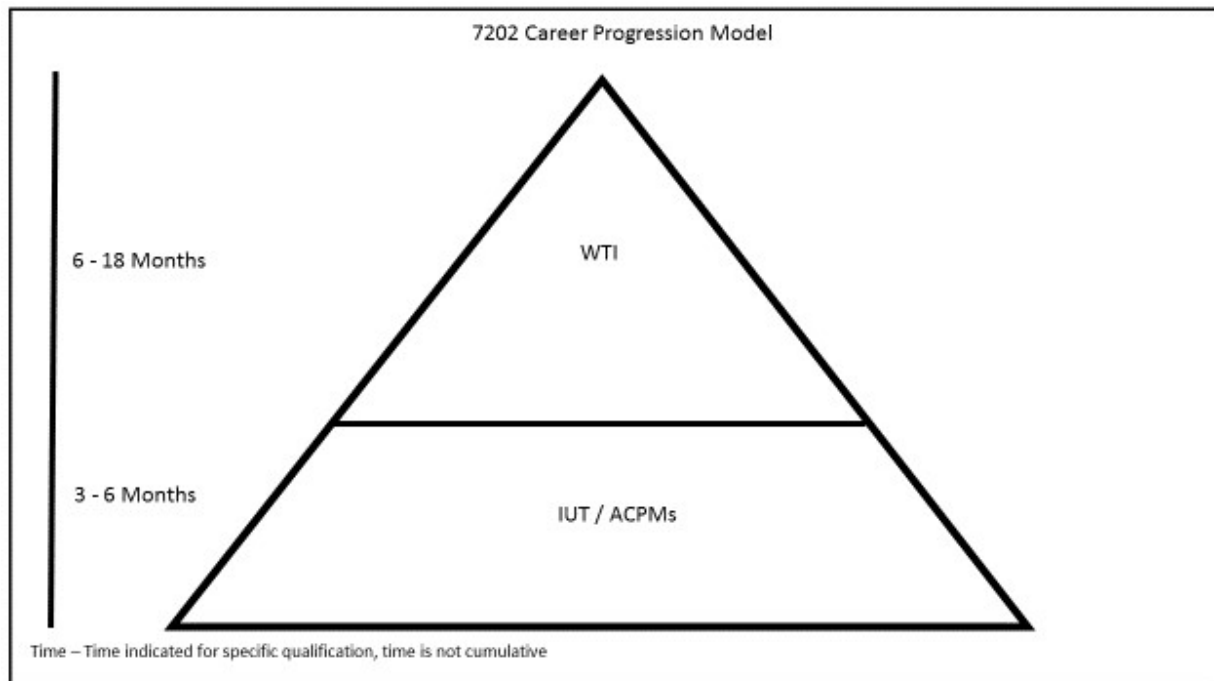
2.0 CREWMEMBER SYLLABUS T&R REQUIREMENTS

This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in core, mission, and core plus skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

2.1 TRAINING PROGRESSION MODEL

Represents the recommended training progression for the Unit or Crewmember. This model represents minimum to maximum time to train and is expressed in Months.

Units should use the model as a guide to generate individual training plans.



2.2 PROGRAMS OF INSTRUCTION

2.2.1 General

The tables reflect the average time to train in weeks for the 1000-3000 selected phases of training.

There is no POI for the MOS 7202. The 7202 must have met the requirements delineated in MCO 1200.16 (Military Occupational Specialties (MOS) Manual).

2.2.2 Basic (B) POI

The basic crewmember shall execute the entire syllabus.

PROGRAM OF INSTRUCTION		
WEEKS	COURSE	PERFORMING ACTIVITY
00	Core Introduction Training	FRS/Unit
00	Core Training	Unit
00	Mission Training	Unit

2.2.3 Refresher (R) POI

The refresher shall execute those events annotated with an R. Commanding officers/WTOs/PTOs will review the qualifications, previous experience, currency, and demonstrated ability of Refreshers with a view towards combining required T&R events.

PROGRAM OF INSTRUCTION		
WEEKS	COURSE	PERFORMING ACTIVITY
00	Core Introduction Training	FRS/Unit
00	Core Training	Unit
00	Mission Training	Unit

2.3 PROFICIENCY & CURRENCY

2.3.1 Event Proficiency

Event proficiency is defined as successful completion of the performance standard as determined by the instructor or evaluator. Event completion is predicated upon demonstrated proficiency. Once completed, it is logged in M-SHARP by entering the appropriate event code. M-SHARP automatically updates the event proficiency date to reflect the completion date.

2.3.2 Skill Proficiency

Proficiency is a measure of achievement of a specific skill. To attain individual skill proficiency, an individual must be simultaneously proficient in all events for that skill. Individuals may be attaining proficiency in some skills while maintaining proficiency in others.

Maintaining Skill Proficiency. Once attained, skill proficiency is maintained by executing those events which have a proficiency period (maintain events). Proficiency periods establish the maximum time between event demonstration. Should proficiency be lost in any maintain event, for a specific skill, that skill proficiency is temporarily lost. Skill proficiency can be re-attained by again demonstrating proficiency in the event(s) that are not proficient. For flying communities, an individual shall complete delinquent events with a proficient instructor, crewman/flight lead as delineated by the T/M/S syllabus sponsor (see Chapter 3 of the Program Manual on specific instructor requirements for low altitude flight, night systems, ACM, DM, DACM, DCM, FAC(A)).

Loss Of Individual Skill Proficiency. Should an individual lose proficiency in all maintain events in a skill, the individual will be assigned to the refresher POI for the skill. To regain skill proficiency, the individual must demonstrate proficiency in all R-events for the skill.

Loss of Unit Skill Proficiency. If an entire unit loses proficiency in an event, unit instructors shall regain proficiency by completing the event with an instructor from a like unit. If not feasible, the instructor shall regain proficiency by completing the event with another instructor. For flying communities, if a unit has only one instructor and cannot complete the event with an instructor from another unit, the instructor shall regain proficiency with another aircraft commander or as designated by the CO.

Proficiency Status. Proficiency is a “Yes/No” status by skill assigned to an individual. When an individual attains and maintains core skill proficiency (CSP), mission skill proficiency (MSP), core plus skill proficiency (CPSP), or mission plus skill proficiency (MPSP), the individual may count towards CMMR or CMTS.

2.3.3 Currency

An additional control measure associated with date last flown (CNAF M-3710.7_ and wing SOPs).

Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill and applies to all MOS's that must comply with NATOPS and CNAF requirements. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for aircrew individual type mission profiles can be found in Chapter 3 of NAVMC 3500.14

2.4 CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATION (CQD) TABLES

The table below delineates T&R events required to be proficient or waived to attain CQD. Waiving of all required events leading to a CQD is not allowed.

CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (CQD) CREWMEMBER	
CQD	EVENTS
DESIGNATION	
WTI	6322

2.5 SYLLABUS NOTES

2.5.1 All events, to include simulators, shall begin with a comprehensive brief with emphasis on administrative procedures, ORM, mission performance standards and crew expectations.

All events shall terminate with a comprehensive debrief with emphasis on crew performance utilizing all evaluation techniques available.

An EATF is required for any initial event completed by the trainee, or as recommended by the squadron standardization board. If the CO has waived/deferred a syllabus sortie, the squadron training officer shall place a waiver/deferral letter in section 3 of the APR.

2.5.2 Event Conditions

Refer to the following table for required event conditions.

Code	Environmental Condition
(N)	May be conducted day or night. If at night, aided or unaided.

2.5.3 Environmental Condition Settings

In addition to every T&R event header requiring an environmental condition, the following elements of a T&R event may have environmental condition settings:

Chained events (D/NS does not apply).

Prerequisite events (D/NS does not apply)

2.5.4 Device Matrix

DEVICE	
Symbol	Meaning
L	Conducted using Unit T/E equipment.
L/S	Live preferred/Simulator acceptable.
G	Ground/academic training.

2.5.5 Program of Instruction Matrix

PROGRAM OF INSTRUCTION MATRIX		
Program of Instruction (POI)	Symbol	Description
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/CPSP/MSPS by initial POI assignment are re-assigned to the M POI to maintain proficiency.

2.5.6 Event Terms

EVENT TERMS	
TERM	DESCRIPTION
Discuss	An explanation of systems, procedures, or maneuvers during the brief, in flight, or post flight. Student is responsible for knowledge of procedures.
Define	State or describe exactly the nature, scope or meaning of
Demonstrate	The description and performance of a particular maneuver/event by the instructor, observed by the PUI/student. The PUI/student is responsible for knowledge of the procedures prior to the demonstration of a required maneuver/student.
Introduce	The instructor may demonstrate a procedure or maneuver to a student or may coach the PUI through the maneuver without demonstration. The PUI performs the procedures or maneuver with coaching as necessary. The PUI is responsible for knowledge of the procedures.
Practice	The performance of a maneuver or procedure by the PUI/student that may have been previously introduced in order to attain a specified level of performance.
Review	Demonstrated proficiency of a maneuver by the PUI/student.
Evaluate	Any flight designed to evaluate aircrew standardization that does not fit another category such as SARCK, HACCK, T2PCK, etc.

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2.6 CORE INTRODUCTION PHASE

Purpose. The purpose of this phase is to instruct...

General. *as required or remove the line*

Admin Notes

2.7 CORE INTRODUCTION STAGES

2.8 CORE PHASE

Purpose. The purpose of this phase is to instruct...

General. *as required or remove the line*

Admin Notes

2.9 CORE STAGES

2.10 MISSION PHASE

Purpose. The purpose of this phase is to instruct...

General. *as required or remove the line*

Admin Notes

2.11 MISSION STAGES

2.12 CORE PLUS PHASE

Purpose. The purpose of this phase is to instruct...

General. *as required or remove the line*

Admin Notes

2.13 CORE PLUS STAGES

2.14 MISSION PLUS PHASE

Purpose. The purpose of this phase is to instruct...

General. *as required or remove the line*

Admin Notes

2.15 MISSION PLUS STAGES

2.16 INSTRUCTOR TRAINING PHASE

Purpose. The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to concepts of managing a WTP, properly conducting training, performing evaluations, and recommending training plans. Upon completion of the required training, an individual may be considered for instructor designation by the Commanding Officer, WTP Officer, or direct representative as delineated.

General.

Admin Notes.

INSTRUCTOR TRAINING PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
IUT(5)	2.17.1	2-7

2.17 INSTRUCTOR TRAINING STAGES

2.17.1 Instructor Under Training(IUT(5)) (IUT(5))

IUT-5000 **2.0** ***** **B** **(N)** **G**

Goal. Introduce principals of instruction.

Requirement

Given the reference, the BIUT will demonstrate the following with the assistance of a unit instructor:

1. Adult learning principles.
 - a. Pedagogy to andragogy.
 - b. Characteristics of the adult learner.
 - c. Learning styles.
 - d. How adults learn.
 - e. Domains of learning.
 - f. Group dynamics.
 - g. Motivation.
 - h. Constructivist learning environments.
2. Introduce, discuss, and demonstrate instruction techniques.
3. Introduce, discuss, and demonstrate class management techniques.
 - a. How to select teaching resources to accommodate student learning styles.
 - b. How to properly organize the instructional environment for effective learning.

Performance Standards. With the aid of references, the BIUT shall demonstrate principles of instruction. During this session, the instructor shall discuss the event content and question the student throughout the training to ensure understanding.

Instructor

AND/OR	If Event 5000 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	WTI	DASC AC2O (7202)

References. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. NAVMC 1553.1, Systems Approach to Training

IUT-5010 **2.0** ***** **B** **(N)** **G**

Goal. Describe individual T&R requirements.

Requirement

Using the Aviation T&R Program Manual, discuss the purpose of each of the following items with an instructor:

1. Training progression model.
2. Programs of Instruction.
 - a. Basic.
 - b. Refresher.
 - c. Conversion.
 - d. Series Conversion.
 - e. Transition.

- f. Maintain.
3. T&R attain and maintain tables.
4. Syllabus notes.
5. T&R syllabus structure.
 - a. Phase.
 - b. Stage.
 - c. Event.
 - d. Skill.
 - e. Syllabus.
6. Event format.
 - a. Header.
 - (1) Event prefix - event code.
 - (2) Projected event duration.
 - (3) Proficiency period.
 - (4) Programs of instruction (POI).
 - (5) Event conditions.
 - (6) Device options.
 - (7) Device number.
 - (8) Device type.
 - b. Body.
 - (1) Goal.
 - (2) Requirement.
 - (3) Performance standard.
 - (4) Equipment.

Performance Standards

Without the aid of references and during a discussion session, the BIUT shall describe Individual T&R requirements.

During this session, the instructor shall discuss the event content and question the student throughout the training session to ensure understanding.

Instructor

AND/OR	If Event 5010 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	WTI	DASC AC2O (7202)

References. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. NAVMC 1553.1, Systems Approach to Training

IUT-5020 **12.0 90** **B, R, M** **(N)** **L**

Goal. Conduct T&R instruction.

Requirement

The BIUT, under the supervision, will conduct periods of instruction on three different T&R events selected by the instructor to include as many different methods of instruction as possible (lecture or academic, demonstration, and practical application).

The BIUT will complete the following for each of the three events instructed:

1. Prepare to train the event.
 - a. Review a trainee's performance record to identify required training for the event selected.
 - b. Ensure the student has met prerequisites for the event to be trained.
 - c. Gather the resources necessary to conduct the training (i.e., instructional materials, references, and equipment).

- d. Conduct task analysis on each event to ensure all intended requirements and prerequisite skills, specified or implied, are trained IAW applicable references.
 - e. Schedule the training event (facilities and students).
 - f. Prepare an evaluation form for each student to be evaluated.
2. Conduct training on the event selected:
 - a. Ensure all training resources are properly staged/equipment if set up properly for training.
 - b. Instruct the student in a thorough manner so as to cover all requirements for the event.
 - c. Ensure continuous, objective assessment of the student's progress during training.
3. Assess student performance:
 - a. Assess the student's performance to the performance standard.
 - b. Correct student deficiencies in a timely manner and provide the student feedback.
 - c. Complete the evaluation form on for each student trained.
 - d. Debrief student on the performance and provide corrective action.
4. Route evaluation form as required.
Route evaluation form as required.

Performance Standards

Complete the requirement items IAW the reference and ensure training is doctrinally and technically current.

Instructor shall use the instructor evaluation form from the SAT userG+ç+ûs guide for each class and a mark of satisfactory must be achieved for each of the three classes.

Instructor

AND/OR	If Event 5020 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	WTI	DASC AC2O (7202)

References. 1. NAVMC 3500.14, Ch 6, Aviation T&R Program Manual

2. NAVMC 1553.1, Systems Approach to Training

3. MCO 1553.2B, Appendix O, Formal Schools Management

IUT-5100 2.0 * B (N) G

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

Requirement

Using the community T&R manual discuss the following with an instructor:

1. Describe the Weapons and Tactics Training Program (WTPP).
2. Define each element of the Core Model:
 - a. Mission statements.
 - b. Core Mission Essential Task List (METL).
 - c. Output standards.
 - d. Core skills (How to attain and maintain).
 - e. Mission skills (How to attain and maintain).
 - f. Combat Leadership
3. Define each of the following elements of unit training:
 - a. Training Exercise Employment Plan (TEEP).
 - b. Core Model Minimum Requirements (CMMR).
 - c. Instructors.
 - d. Core Model Training Report (CMTR).
 - e. T&R manual connection to readiness reporting.
4. Define each of the following elements of training:

- a. Certification.
- b. Qualification.
- c. Designation.
5. Explain how changes are made to the Program manual:
 - a. Explain T&R conference procedures.
 - b. Explain correspondence change procedures.

Performance Standards. Complete the requirements IAW the reference. Instructor will question the SIUT to check for thorough understanding of the Aviation T&R Program.

Instructor

AND/OR	If Event 5100 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	WTI	DASC AC2O (7202)

Prerequisites

EVENTS						
AND/OR	If 5100 Conducted In		If 5100 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				5000
AND	(N)	G				5010
AND	(N)	G				5020

References. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. Applicable community T&R Manual

3. MCO1553.2B, Appendix O, Formal Schools Management

IUT-5110 4.0 365 B, R, M (N) L

Goal. Conduct instructor evaluations.

Requirement

Using the instructor evaluation checklist from the SAT manual, conduct two evaluations on instructors of equal or lower designation.

1. Provide notification of evaluation to the instructor being evaluated.
2. Do not interfere with or disrupt the instruction while taking place.
3. Thoroughly document observed items on the checklist.
4. Ensure student evaluation form is filled out correctly and the appropriate debrief took place.
5. Debrief the instructor being evaluated on their preparation, instruction, evaluation, and documentation.
6. Have the evaluated instructor complete the instructor improvement plan section and sign.
7. File a copy of the completed evaluation form in both the evaluator's and evaluated instructor's performance record.

Performance Standards. Complete the requirements IAW the reference.

Instructor

AND/OR	If Event 5110 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	WTI	DASC AC2O (7202)

Prerequisites

EVENTS						
	If 5110 Conducted In		If 5110 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5000
AND	(N)	L				5010
AND	(N)	L				5020

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. Applicable community T&R Manual

3. 3. MCO1553.2B, Appendix O, Formal Schools Management

IUT-5120 **2.0** ***** **B** **(N)** **L**

Goal. Perform T&R administration.

Requirement

Document training to include:

1. Performance records.
2. Ensure MSHARP is updated appropriately.
3. Assemble recommendation package for certifications, qualifications, and designations IAW T&R manual.

Performance Standards. Complete the requirement items IAW the references. Instructor will question the trainee to check for understanding of the administration process.

Instructor

	If Event 5120 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	WTI	DASC AC2O (7202)

Prerequisites

EVENTS						
	If 5120 Conducted In		If 5120 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5000
AND	(N)	L				5010
AND	(N)	L				5020

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. Local WTP SOP

3. 3. <http://msharpsupport.com>

IUT-5130 **2.0** ***** **B** **(N)** **L**

Goal. Develop a training plan.

Requirement

Given a deployment scenario develop a training plan to determine individual, and crew training needed to meet CMMR by completing the following:

1. Review Commander's training guidance.

2. Analyze the CMTR to determine training deficiencies and how to achieve CMMR.
3. Identify and schedule T&R training opportunities IAW the TEEP to achieve requirements.
4. Determine instructors required.
5. Determine equipment required.
6. Determine external support required.
7. Deliver a brief to the instructor that shows:
 - a. Crew manning and training requirements.
 - b. Current training status.
 - c. Identify the training deficiencies and resource shortfalls.
 - d. Explain the training plan to correct the training deficiencies.
 - e. Training plan meets commander's guidance.

Performance Standards. Complete the requirement items IAW the references and commander's training guidance. Training plan will ensure adequate time is allocated to include preparation, instruction, assessment, documentation, and remediation.

Instructor

AND/OR	If Event 5130 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	WTI	DASC AC2O (7202)

Prerequisites

EVENTS						
AND/OR	If 5130 Conducted In		If 5130 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5000
AND	(N)	L				5010
AND	(N)	L				5020

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. Applicable Community T&R manuals

2.18 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) PHASE

Purpose. This phase provides for community standardization of 7202 combat leadership and instructor designations.

General.

Admin Notes.

(1) The WTTP shall review the IPR to ensure all required training, documentation and administrative actions have been completed prior to staffing 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 designation be effective.

REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
SCHL(6)	2.19.1	2-12
DESG(6)	2.19.2	2-13

2.19 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) STAGES

2.19.1 Schools (SCHL(6)) (SCHL(6))

Purpose

To provide tracking codes for required schools and training.

Admin Notes

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.

SCHL-6000 **0.5** ***** **B** **(N)** **G**

Goal. Weapons and Tactics Instructor (WTI).

Requirement

Complete required training.

Performance Standards. N/A

References. 1. 1. MAWTS1 C3 COURSE CATALOG

2.19.2 Designations (DESG(6)) (DESG(6))

Purpose

To provide for the designation of combat leaders and instructors.

DESG-6322 **0.5** ***** **B** **(N)** **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 Standards. Complete course requirements.

Prerequisites

EVENTS						
AND/OR	If 6322 Conducted In		If 6322 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				6000

References. 1. MAWTS1 C3 Course Catalog

2.20 MET ASSESSMENT PHASE

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.

General.

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.

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.

MET ASSESSMENT PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
MET(7)	2.21.1	2-14

26 Oct 22

2.21 MET ASSESSMENT STAGE**2.21.1 Mission Essential Task (MET(7)) (MET(7))****Purpose**

To train unit level teams in executing community specific MET(s) or MET preparatory events.

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.

MET-7001 3.0 730 B, R, M (N) L/S

Goal. Conduct Airspace Management

Requirement

Capable of coordinating, integrating, and regulating airspace.

1. Capable of establishing Long haul HF or SAT Comms
2. Squadron level simulation conducted within the last 12 months with task organized extensions
3. Capable of managing MAGTF airspace.
4. Able to receive, develop and process changes to airspace control procedures.
5. Receive, develop and process changes to airspace control procedures.
6. Able to integrate all airspace users within assigned airspace.
7. Able to establish / maintain communications.

Performance Standards. Conduct Airspace Management per MCT 5.3.5.3.1 and this manual.

Instructor

AND/OR	If Event 7001 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC AC2O (7202)

References. 1. 1. MCRP 3-20F.5, DASC Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7002 3.0 730 B, R, M (N) L/S

Goal. Process Requests for Immediate Air Support.

Requirement

Capable of receiving, processing, and coordinating immediate requests for direct air support.

1. Capable of processing immediate requests for air support.
2. Squadron level simulation conducted within the last 12 months with task organized extensions.
3. Able to validate and assign or recommend sourcing for immediate air support requests.
4. Able to receive / send immediate air support requests and mission data.
5. Able to receive / process updates and required mission reports.
6. Able to establish / maintain communications.

Performance Standards. Process Requests for Immediate Air Support per MCT 5.3.5.3.3 and this manual.

Instructor

AND/OR	If Event 7002 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC AC2O (7202)

References. 1. 1. MCRP 3-20F.5, DASC Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7003 3.0 730 B, R, M (N) L/S

Goal. Conduct Continuous Direct Air Support Operations While Echelonning.

Requirement

Able to pass aviation C2 authorities between organic elements while echelonning.

1. Able to pass aviation C2 authorities between simulated agencies and extensions without degradation of capabilities.
2. Passing and receiving agencies able to establish / maintain communications.
3. Passing and receiving agencies able to conduct 24 hour operations.
4. Able to pass control of direct air support operations.
5. Able to displace and emplace.
6. Able to conduct tactical movement in conjunction with a scheme of maneuver.
7. Passing and receiving agencies possess and disseminate passage of control procedures / checklist.
8. Passing and receiving agencies able to provide limited self-defense capabilities with organic crew served weapons systems.

Performance Standards. Conduct Continuous Direct Air Support Operations While Echelonning per MCT 5.3.5.3.4 and this manual.

Instructor

AND/OR	If Event 7003 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC AC2O (7202)

Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A011	12	1	1	1	None
A023	12	1	1	1	None
A059	100	1	1	1	None
A063	20	1	1	1	None
A080	120	1	1	1	None
A111	800	1	1	1	None
A131	200	1	1	1	None
A143	800	1	1	1	None
A555	400	1	1	1	None
A576	100	1	1	1	None
A598	400	1	1	1	None

References. 1. 1. MCRP 3-20F.5, DASC Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7004 **3.0** **730** **B, R, M** **(N)** **L/S**

Goal. Conduct Procedural Control.

Requirement

Capable of conducting procedural control.

1. Capable of conducting procedural control.
2. Able to receive and pass assigned missions and updates to air assets in DASC airspace.
3. Able to relay safety of flight information to aircraft.
4. Able to establish / maintain communications.
5. Able to provide appropriate aircraft routing through airspace IAW published operational documents.
6. Able to receive / process mission reports from air assets.
7. Squadron level simulation conducted within the last 12 months with task organized extensions.

Performance Standards. Conduct Procedural Control per MCT 5.3.5.4.3 and this manual.

Instructor

AND/OR	If Event 7004 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC AC2O (7202)

References. 1. 1. MCRP 3-20F.5, DASC Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7005 **3.0** **730** **B, R, M** **(N)** **L/S**

Goal. Coordinate Aviation Operations, Fires, and Effects.

Requirement

Capable of coordinating the execution of aviation operations with organic MAGTF fires.

1. Capable of coordinating fires and airspace.
2. Able to establish / maintain communications.
3. Able to provide safe / appropriate routing through assigned airspace.
4. Able to receive / process updates and required mission reports.
5. Able to receive, validate, and send fire missions, ACMs, and FSCMs.
6. Squadron level simulation conducted within the last 12 months with task organized extensions.

Performance Standards. Coordinate Aviation Operations, Fires, and Effects per MCT 5.3.5.6 and this manual.

Instructor

AND/OR	If Event 7005 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC AC2O (7202)

References. 1. 1. MCRP 3-20F.5, DASC Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7006 **3.0** **730** **B, R, M** **(N)** **L/S**

Goal. Capable of coordinating, and executing maritime air control in support of integrated naval anti-surface and

anti-submarine warfare.

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. Squadron level simulation conducted within the last 12 months.
2. Able to control the four types of AOMSW.
3. Able to maintain communication between higher and adjacent command and control (C2) agencies (Navy and Marine Corps).
4. Able to plan for maritime air controller duties as an air control unit within an air battle plan.
5. Capable of coordination, and execution as an air control unit executing maritime air controller duties.

Performance Standards. Support Air Operations in Maritime Surface Warfare (AOMSW) per MCT 5.3.2.7.2.4 and this manual.

Instructor

AND/OR	If Event 7006 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC AC2O (7202)

References. 1. 1. MCRP 3-20F.5, DASC Handbook

2. 2. MAWTS-1 DASC TACSOP

2.22 AVIATION CAREER PROGRESSION MODEL (ACPM) PHASE

AVIATION CAREER PROGRESSION MODEL (ACPM) PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ACPM(8)	2.23.1	2-17

2.23 AVIATION CAREER PROGRESSION MODEL (ACPM) STAGES

2.23.1 Aviation Career Progression Model (ACPM(8)) (ACPM(8))

Purpose

Per NAVMC 3500.14 (Aviation T&R Program Manual), the MACCS Aviation Career Progression Model (ACPM) is designed "to enhance professional understanding of Marine Aviation and the Marine Air Ground Task Force (MAGTF) and to provide Marines with a knowledge of the doctrine and tactics techniques and procedures (TTPs) of aviation command and control.

The MACCS ACPM is broken down into five stages; MACCS, Aviation Combat Element (ACE), Threat, MAGTF, and Joint Air Operations.

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 prerequisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

The learning objectives for each MACCS ACPM event are meant to be evaluated via quizzes on MCALMS. Once a student passes the MCALMS quiz, the event code will be run in M-SHARP. All MACCS ACPM events are one-time events. MAWTS-1 will maintain a standardized exam for each stage (MACCS, ACE, MAGTF, Threat, Joint) that is available to the operating forces via MCALMS. The prerequisite for taking the stage exam will be the completion of all the events in that stage. Stage exams will have their own event number (ACPM-8000, ACPM-

8020, ACPM-8040, ACPM-8060, ACPM-8080) and will be tied to qualifications and certification events in MACCS T&R manuals.

ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

Admin Notes

Commanding Officers shall ensure the requisite MACCS ACPM training requirements have been met prior to approving qualifications or designations.

ACPM-8000 1.0 * B (N) G

Goal. Demonstrate an understanding of the MACCS stage.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8000 Conducted In		If 8000 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8001
AND	(N)	G				8002
AND	(N)	G				8003
AND	(N)	G				8004
AND	(N)	G				8005
AND	(N)	G				8006
AND	(N)	G				8008

References. 1. MAWTS1 C3 Course Catalog

ACPM-8001 4.0 * B (N) G

Goal. Demonstrate an understanding of the Marine Air Command and Control System (MACCS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Describe how the control of aircraft and missiles relates to the other five functions of USMC aviation.
2. Define the control of aircraft and missiles and each of its subcomponents.
3. Define the Marine aviations philosophy of centralized command and decentralized control.
4. Differentiate between Marine aviation philosophy and Joint aviation philosophy.
5. Identify the principle objectives of the MACCS.
6. Recall the primary role of each agency of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MACCS Agencies, Functions and the Control of Aircraft and Missiles Class
2. 2. MCTP 3-20F Control of Aircraft and Missiles

ACPM-8002 4.0 * B (N) G

Goal. Demonstrate an understanding of the Tactical Air Command Center (TACC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. State the mission of the TACC.
2. Identify the four organizations of the TACC.
3. List the primary responsibilities of Air Combat Intelligence (ACI).
4. List the primary responsibilities of Future Operations (FOPS).
5. List the primary responsibilities of Future Plans (FPLANS).
6. List the primary responsibilities of Current Operations (COPS).
7. List the major end items used by the TACC.
8. List the system limitations of the TACC.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 TACC Class
2. 2. MCRP 3-20F.4 Marine TACC Handbook

ACPM-8003	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the Direct Air Support Center (DASC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the DASC.
2. List the structure and task organization of the DASC.
3. Identify the major end items and their characteristics used by the DASC.
4. List the capabilities and limitations of the DASC.
5. Identify how the DASC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 DASC Class
2. 2. MCRP 3-20F.5 DASC Handbook

ACPM-8004	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the Tactical Air Operations Center (TAOC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define the mission of the TAOC.
2. Identify the Mission Essential Tasks (METs) for the TAOC.
3. Identify the structure and task organization of the TAOC.
4. Identify the major end items and their characteristics used by the TAOC.
5. Identify the capabilities and limitations of the TAOC.
6. Identify how the TAOC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 TAOC Class
2. 2. MCRP 3-20F.6 TAOC Handbook

ACPM-8005	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the Marine Air Traffic Control (MATC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of MATC.
2. Identify the Mission Essential Tasks (METs) for MATC.
3. List the structure and task organization of MATC.
4. Identify the major end items and their characteristics used by MATC.
5. Identify the capabilities and limitations of MATC.
6. Identify how MATC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MATC Employment Class

2. 2. MCTP 3-20F

3. 3. MCRP 3-20F.7 Marine Air Traffic Control Detachment Handbook

ACPM-8006	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the Low Altitude Air Defense (LAAD).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of the LAAD battalion.
2. Identify the structure and task organization of the LAAD battalion.
3. Identify the primary vehicle and surface-to-air weapon used by the LAAD Battalion.
4. Define the LAAD employed guidelines.
5. List the LAAD weapon applications.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 LAAD Employment Class

2. 2. MCRP 3-20F.8 LAAD Battalion Handbook

3. 3. MCRP 3-20F.9 LAAD Gunner's Handbook

ACPM-8008	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the Marine Wing Communications Squadron (MWCS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of the MWCS.
2. Identify the structure and task organization of the MWCS.
3. Identify the Mission Essential Tasks (METs) for the MWCS.
4. Identify the major end items and their characteristics used by MWCS.
5. Identify the capabilities and limitations of the MWCS.

6. Identify how the MWCS is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MWCS Employment Class

2. 2. MCRP 3-30B.2 MAGTF Communications Systems

3. 3. NAVMC 3500.56 Communications Training and Readiness Manual

ACPM-8020 1.0 * B (N) G

Goal. Demonstrate an understanding of the ACE stage of the MACCS ACPM.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8020 Conducted In		If 8020 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8021
AND	(N)	G				8022
AND	(N)	G				8023
AND	(N)	G				8024
AND	(N)	G				8025
AND	(N)	G				8026
AND	(N)	G				8027
AND	(N)	G				8028

References. 1. MAWTS1 C3 Course Catalog

ACPM-8021 4.0 * B (N) G

Goal. Demonstrate an understanding of USMC aviation operations doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the six functions of Marine aviation to include all their subsets.
2. Identify the organization and mission of the Marine Aircraft Wing (MAW), to include each type of group and squadron.
3. Define who has operational control of organic MAGTF aviation assets during Joint operations.
4. List the four types of sorties the MAGTF Commander makes available to the Joint Force.
5. Identify the purpose of the Air Tasking Order (ATO).
6. Identify the six phases of the air tasking cycle.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCWP 3-2 Aviation Operations

ACPM-8022 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC doctrine for the control of aircraft and missiles.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify how the control of aircraft and missiles relates to the other five functions of USMC aviation.
2. Identify distinctions between Marine aviation philosophy and that of the other services.
3. Identify the principle objectives of the Marine Air Command and Control System (MACCS).
4. Describe how the COMMARFOR may serve as the Joint Force Air.
5. Component Commander (JFACC), Airspace Control Authority (ACA), and Area Air Defense Commander (AADC).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 Control of Aircraft and Missiles Class

2. 2. MCTP 3-20F Control of Aircraft and Missiles

ACPM-8023 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Offensive Air Support (OAS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the purpose of the MAGTF Commanders Single Battle Concept.
2. Define the subcategories of OAS.
3. Define the requirements for effective OAS.
4. Define the three types of Deep Air Support (DAS).
5. Define the capabilities and limitations of the OAS function.
6. Identify the elements of a Joint Tactical Air Strike Request (JTAR).
7. Identify the three types of control of Close Air Support (CAS).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 OAS Class

2. 2. MCTP 3-20D Offensive Air Support

ACPM-8024 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Assault Support doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define the types of assault support operations.
2. Identify which aircraft conduct each of the types of assault support operations.
3. Identify the elements of an Assault Support Request (ASR).
4. List assault support capabilities and limitations.
5. Define the role of the air mission commander and the assault force commander during air assault operations.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. 1. MAWTS-1 Assault Support Class
2. 2. MCTP 3-20E Assault Support

ACPM-8025 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Air Reconnaissance doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the three categories of air reconnaissance.
2. Identify the four principals of air reconnaissance.
3. Identify the five prerequisites for effective air reconnaissance.
4. Identify the current USMC aircraft that have the mission of air reconnaissance.
5. Identify the form used to request air reconnaissance.
6. Identify the five supporting operations for effective air reconnaissance.
7. Identify the capabilities and limitations of air reconnaissance.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. MCTP 3-20G Air Reconnaissance

ACPM-8026 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Electronic Warfare (EW) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define radar.
2. List the three basic radar types.
3. Identify the limitations and characteristics of radar systems.
4. Identify the six guidance systems and how they work.
5. List the three subdivisions of Electronic Warfare (EW).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. MCRP 3-32D.1 Electronic Warfare

ACPM-8027 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Antiair Warfare (AAW) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define AAW.
2. Define the two subsets of AAW.
3. Identify the principles of AAW.
4. Identify the types of Offensive Antiair Warfare (OAAW).
5. Identify the active air defense functions.
6. List three examples of passive air defense measures.

7. Define a Joint Engagement Zone (JEZ), Fighter Engagement Zone (FEZ), Missile Engagement Zone (MEZ), and Base Defense Zone (BDZ).
8. Define the air defense warning conditions.
9. Define the weapons control statuses.
10. Identify the responsibilities of the Regional Air Defense Commander (RADC) and the Sector Air Defense Commander (SADC).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCTP 3-20C Anti-air Warfare

ACPM-8028 **4.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Ground Support (AGS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the organization responsible for providing AGS to the Marine Aircraft Wing (MAW).
2. Identify the 13 functions of AGS.
3. Identify the five activities that the Marine Wing Support Squadron (MWSS) performs for the ACE when deployed.
4. Identify the four basing concepts for MAGTF Forward Operating Bases (FOBs).
5. List the four classifications of FOBs.
6. Differentiate the distinguishing characteristics of FOBs.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 AGS Class

2. 2. MCTP 3-20B Aviation Ground Support

ACPM-8040 **1.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the Threat stage of the MACCS ACPM

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8040 Conducted In		If 8040 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8041
AND	(N)	G				8042
AND	(N)	G				8043
AND	(N)	G				8044

References. 1. MAWTS1 C3 Course Catalog

ACPM-8041 **4.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the surface-to-anti-air threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the system name with the guidance and target aspect for the following Man Portable Air Defense Systems (MANPADS):

- a. SA-7.
- b. SA-14.
- c. SA-16.
- d. SA-18.

2. Match the system name with the guidance and associated radars for the following Radio Frequency Surface-to-Air Missile Systems (RF SAMS):

- a. SA-2.
- b. SA-6.
- c. SA-8.
- d. SA-10.
- e. SA-11.
- f. SA-15.
- g. SA-20.
- h. Roland-III.

3. Match the system name with the type and associated radar for the following Air Defense Artillery (AAA):

- a. ZPU 1, 2, 4.
- b. ZSU-23-4.
- c. 2S6.
- d. S-60.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference

ACPM-8042 4.0 * B (N) G

Goal. Demonstrate an understanding of the fixed wing threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- 1. Identify the role of the AN-2 Colt.
- 2. Identify the role of the MIG-23 Flogger.
- 3. Identify the role of the MIG-29 Fulcrum.
- 4. Identify the role of the MIG-31 Foxhound.
- 5. Identify the role of the Su-24 Fencer.
- 6. Identify the role of the Su-25 Frogfoot.
- 7. Identify the role of the Su-27 Flanker.
- 8. Identify the role of the Su-30 Flanker.
- 9. Identify the role of the Tu-22M Backfire.
- 10. Identify the role of the Tu-95 Bear.
- 11. Identify the role of the Tu-160 Blackjack.
- 12. Identify the role of the J-7 Fishbed.
- 13. Identify the role of the JH-7 Flounder.
- 14. Identify the role of the J-8 Finback.
- 15. Identify the role of the J-10 Firebird.
- 16. Identify the role of the H-6 Badger.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference
(<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>)

ACPM-8043	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the rotary wing threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the Mi-24 Hind.
2. Identify the role of the SA 342 Gazelle.
3. Identify the role of the Ka-25 Hormone.
4. Identify the role of the Mi-6 Hook.
5. Identify the role of the Mi-28 Havoc.
6. Identify the role of the Mi-8 Hip.
7. Identify the role of the Ka-50 Kokum.
8. Identify the role of the Ka-29 Helix B.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference
(<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>)

ACPM-8044	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the missile and Unmanned Aircraft System (UAS) threat to the MAGTF

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the system name with the terminal guidance for the following Air-to-Surface Missiles:
 - a. AS-10 Karen.
 - b. AS-11 Kilter.
 - c. AS-12 Kegler.
 - d. AS-14 Kedge.
 - e. AS-17 Krypton.
2. Match the system name with the warhead and guidance for the following Surface-to-Surface Missiles:
 - a. FROG-7.
 - b. SCUD-B.
 - c. SCUD-C.
 - d. Nodong 1.
 - e. C 801.
 - f. C 802.
3. Identify the mission of the following threat UAS:
 - a. Ababil.
 - b. Mohajer.
 - c. Harpy.
 - d. Heron.
 - e. ASN-206.
 - f. Pchela-1T.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. 1. MAWTS-1 Marine Aviation Intelligence Reference
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/ne_wc3/default.aspx
2. 2. Marine Corps Intelligence Activity Iran Country Handbook (appendix A)
3. 3. Marine Corps Intelligence Activity North Korea Country Handbook (page 86)
4. 4. Marine Corps Intelligence Activity China Country Handbook (appendix A)
<https://www.intelink.gov/mcia/handbook.htm>
5. 5. MCIA UAV Recognition Guide <https://www.intelink.gov/mcia/index.htm>

ACPM-8060 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF stage of the MACCS ACPM.

Requirement

Demonstrate an understanding of the MAGTF stage of the MACCS ACPM.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8060 Conducted In		If 8060 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8061
AND	(N)	G				8062
AND	(N)	G				8063
AND	(N)	G				8064
AND	(N)	G				8065
AND	(N)	G				8066
AND	(N)	G				8067

References. 1. MAWTS1 C3 Course catalog

ACPM-8061 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF ground combat operations.

Requirement

- b. Types of attack.
 - c. Forms of maneuver.
 - d. Distribution of forces.
 - 5. Identify the following items related to defensive operations:
 - a. Organization of the defense.
 - b. Distribution of forces.
 - c. Types of defensive operations.
 - d. Defensive methods.
- Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:
- 1. Identify how the Ground Combat Element (GCE) is employed as part of the MAGTF and the capabilities the GCE provides to the MAGTF commander.
 - 2. Define the following items related to command and control of ground combat operations:
 - a. Echelons of the GCE headquarters.

- b. Battlespace Organization.
- c. Battlespace Framework.
- 3. Define the five types of amphibious operations.
- 4. Identify the following items related to offensive operations:
 - a. Types of offensive operations.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCDP 1-0 Marine Corps Operations

ACPM-8062	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of fire support coordination in the Ground Combat Element (GCE).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- 1. Identify the four fire support tasks.
- 2. List the functions of the senior fire support coordination center (FSCC) in the GCE.
- 3. List the four steps of the MAGTF Targeting Process.
- 4. Define the purpose of essential fire support tasks (EFST).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MAGTF Targeting and Fire Support Planning Class
2. 2. MCTP 3-10F Fire Support Coordination in the GCE

ACPM-8063	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of MAGTF command and control.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- 1. Identify MAGTF command and support relationships.
- 2. Identify the purpose and role of the command and control centers in the CE, ACE, GCE, and LCE.
- 3. Identify the purpose and role of the amphibious command and control facilities.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCWP 3-30 MAGTF Command and Control

ACPM-8064	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of MAGTF communications.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- 1. Identify the six characteristics of communications and information systems.
- 2. Identify the mission and organizational structure of the Communications Battalion.
- 3. Identify the purpose of the Communications-Electronics Operating Instructions (CEOI) and what information is usually included in it.
- 4. Identify what information can be found in Annex K of an operations order.

5. Identify the purpose of select fires, support, and ACE specific radio nets.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCRP 3-30B.2 MAGTF Communications System

ACPM-8065 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of phasing control ashore.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify types of amphibious operations and how command relationships may change during the conduct of each.
2. Identify how disputes among commanders during amphibious operations are resolved.
3. Identify the key commanders and command relationships.
4. Identify the key characteristics of each phase in phasing the MACCS ashore.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-02 Amphibious Operations

2. 2. MCTP 3-20F Control of Aircraft and Missiles (Appendix C)

ACPM-8066 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of information management.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the principles of information management with their descriptions.
2. Define each of the classes of information within an information hierarchy.
3. List the characteristics of quality information.
4. Identify the role and responsibilities of an Information Management Officer (IMO).
5. Define C2 support structure and the three steps followed to develop one.
6. Identify the purpose of an information management matrix and the information management plan.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCTP 3-30B Information Management

ACPM-8067 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of Unmanned Aircraft Systems in support of MAGTF operations.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the four types of payloads.
2. Identify the three attributes that determine UAS Groups.
3. Identify the five different UAS Group Categories.
4. Identify the two types of VMU operational employment.
5. Identify the three components of the RQ-7B Communications Relay Package.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCRP 3-42.1A

2. 2. NTTP 3-22.3-VMU

ACPM-8080 **1.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF stage of the joint air operations stage of the MACCS ACPM.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
	If 8080 Conducted In		If 8080 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8081
AND	(N)	G				8082
AND	(N)	G				8083
AND	(N)	G				8084
AND	(N)	G				8085
AND	(N)	G				8086
AND	(N)	G				8087
AND	(N)	G				8088

References. 1. MAWTS1 C3 Course Catalog

ACPM-8081 **4.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the command and control of joint air operations.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the definition of joint air operations.
2. Identify the Joint Force Air Component Commander's responsibilities.
3. Identify the five sections that comprise the Joint Air Operations Center.
4. Identify the six phases of the Joint Air Tasking Cycle.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. DOCNET Course 3-30 (<http://www.dtic.mil/doctrine/docnet/>)

2. 2. MAWTS-1 Joint Air Operations Class

3. 3. JP 3-30 C2 of Joint Air Operations

ACPM-8082 **4.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the theater air ground system (TAGS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. List the primary characteristics of the Theater Air Ground System (TAGS).
2. Identify the elements within the Air Forces Theater Air Control System (TACS) and their primary responsibilities.
3. Identify the aviation command and control elements with the Army Air and Ground System (AAGS) and their primary responsibilities.
4. Identify the aviation elements within the Navy's Composite Warfare Commander (CWC) architecture.
5. Identify the Amphibious Task Force (ATF) construct and its primary responsibilities.
6. Identify the aviation command and control elements within the Special Operations Air-Ground System.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCRP 3-20.1 Multi-Service Tactics, Techniques, and Procedures for the Theater Air-Ground System

ACPM-8083	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of joint fire support doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define joint fires.
2. Define joint fire support.
3. Identify the steps of the joint fire support planning process.
4. List the various elements of the component commanders fires command and control system.
5. Define the various joint control and coordination measures associated with joint fire support.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-09 Joint Fire Support

ACPM-8084	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of close air support (CAS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Explain key roles and responsibilities related to the planning and execution of CAS.
2. Detail key steps in the planning and execution of CAS.
3. Describe various coordination measures used in the planning and conduct of CAS.
4. Describe the manner in which the two types of CAS requests are fulfilled.
5. Identify the goal and purpose of synchronizing CAS with surface fires.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-09.3 Close Air Support

ACPM-8085	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of joint targeting doctrine.

26 Oct 22

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify types of targets.
2. Identify and describe the six phases of the joint targeting cycle.
3. Identify characteristics of a target.
4. Identify and describe steps in dynamic targeting.
5. Describe roles and responsibilities related to the joint targeting process.
6. Describe key products and processes of the joint targeting cycle.
7. Identify key terms related to the joint targeting process.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-60 Joint Targeting

ACPM-8086 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the North Atlantic Treaty Organization (NATO).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the composition of the NATO alliance.
2. Identify the three key articles of the NATO alliance.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 NATO Class
 2. 2. North Atlantic Treaty Organization Handbook
 3. 3. "What is NATO" Brief (http://www.nato.int/welcome/intro_to_NATO_en.ppt)
 4. 4. AJP-01(D)

ACPM-8087 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of joint airspace control doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the responsibilities of the airspace control authority (ACA).
2. Identify the basic principles for airspace control.
3. Identify the purpose of the airspace control plan (ACP).
4. Identify the purpose of the airspace control order (ACO).
5. Identify the methods of airspace control.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-30 C2 of Joint Air Operations
 2. 2. JP 3-52 Joint Airspace Control

ACPM-8088 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of counter air and missile doctrine.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-01 Countering Air and Missile Threats

2.24 ELECTRONIC AIRCREW TRAINING FORM (EATF) REASON CODES

Not Editable By Editor

2.25 T&R SYLLABUS MATRICES

2.25.1 T&R Syllabus Matrix

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
1000 PHASE - Core Introduction												
2000 PHASE - Core												
3000 PHASE - Mission												
4000 PHASE - Core Plus												
4500 PHASE - Mission Plus												
5000 PHASE - Instructor Training												
Instructor Under Training(IUT(5)) (IUT(5)) Stage												
5000	IUT(5)	ACAD	Principles of Instru	B	*	(N)	G	0	2.0			5000
5010	IUT(5)	ACAD	Event Structure	B	*	(N)	G	0	2.0			5010
5020	IUT(5)	LIVE	Period of Instructio	B, R, M	90	(N)	L	0	12.0			5020
5100	IUT(5)	ACAD	Understand T&R Prog	B	*	(N)	G	0	2.0			5100
5110	IUT(5)	LIVE	Community T&R	B, R, M	365	(N)	L	0	4.0			5110
5120	IUT(5)	LIVE	Understand T&R Admin	B	*	(N)	L	0	2.0			5120
5130	IUT(5)	LIVE	Dev Trng Plan	B	*	(N)	L	0	2.0			5130
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)												
Schools (SCHL(6)) (SCHL(6)) Stage												
6000	SCHL(6)	ACAD	WTI Course	B	*	(N)	G	0	0.5			6000
Designations (DESG(6)) (DESG(6)) Stage												
6322	DESG(6)	ACAD	WTI	B	*	(N)	G	0	0.5			6322
7000 PHASE - MET												
Mission Essential Task (MET(7)) (MET(7)) Stage												
7001	MET(7)	LIVE	Airspace Management	B, R, M	730	(N)	L/S	0	3.0			7400
7002	MET(7)	LIVE	Immediate Air Support	B, R, M	730	(N)	L/S	0	3.0			7405
7003	MET(7)	LIVE	Echelon	B, R, M	730	(N)	L/S	0	3.0			7410
7004	MET(7)	LIVE	Procedural Control	B, R, M	730	(N)	L/S	0	3.0			7415
7005	MET(7)	LIVE	Aviation, Fires, Effects	B, R, M	730	(N)	L/S	0	3.0			7420
7006	MET(7)	LIVE	AOMSW	B, R, M	730	(N)	L/S	0	3.0			7425
8000 PHASE - ACPM												
Aviation Career Progression Model (ACPM(8)) (ACPM(8)) Stage												
8000	ACPM(8)	ACAD	MACCS Module	B	*	(N)	G	0	1.0			8000
8001	ACPM(8)	ACAD	MACCS	B	*	(N)	G	0	4.0			8001
8002	ACPM(8)	ACAD	TACC	B	*	(N)	G	0	4.0			8002

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
8003	ACPM(8)	ACAD	DASC	B	*	(N)	G	0	4.0			8003
8004	ACPM(8)	ACAD	TAOC	B	*	(N)	G	0	4.0			8004
8005	ACPM(8)	ACAD	MATC	B	*	(N)	G	0	4.0			8005
8006	ACPM(8)	ACAD	LAAD	B	*	(N)	G	0	4.0			8006
8008	ACPM(8)	ACAD	MWCS	B	*	(N)	G	0	4.0			8008
8020	ACPM(8)	ACAD	ACE Module	B	*	(N)	G	0	1.0			8020
8021	ACPM(8)	ACAD	Aviation Ops	B	*	(N)	G	0	4.0			8021
8022	ACPM(8)	ACAD	CTRL of A/C & Missil	B	*	(N)	G	0	4.0			8022
8023	ACPM(8)	ACAD	OAS	B	*	(N)	G	0	4.0			8023
8024	ACPM(8)	ACAD	Assault Support	B	*	(N)	G	0	4.0			8024
8025	ACPM(8)	ACAD	Aerial Recon	B	*	(N)	G	0	4.0			8025
8026	ACPM(8)	ACAD	Electronic Warfare	B	*	(N)	G	0	1.0			8026
8027	ACPM(8)	ACAD	Anti-Air Warfare	B	*	(N)	G	0	4.0			8027
8028	ACPM(8)	ACAD	Aviation Grd Supp	B	*	(N)	G	0	4.0			8028
8040	ACPM(8)	ACAD	Threat Module	B	*	(N)	G	0	1.0			8040
8041	ACPM(8)	ACAD	S to A Threat	B	*	(N)	G	0	4.0			8041
8042	ACPM(8)	ACAD	Fixed Wing Threat	B	*	(N)	G	0	4.0			8042
8043	ACPM(8)	ACAD	Rotary Wing Threat	B	*	(N)	G	0	4.0			8043
8044	ACPM(8)	ACAD	Missile & UAS Threat	B	*	(N)	G	0	4.0			8044
8060	ACPM(8)	ACAD	MAGTF Module	B	*	(N)	G	0	1.0			8060
8061	ACPM(8)	ACAD	Grd Combat Ops	B	*	(N)	G	0	4.0			8061
8062	ACPM(8)	ACAD	Fire Support in GCE	B	*	(N)	G	0	4.0			8062
8063	ACPM(8)	ACAD	MAGTF C2	B	*	(N)	G	0	4.0			8063
8064	ACPM(8)	ACAD	MAGTF Comm	B	*	(N)	G	0	4.0			8064
8065	ACPM(8)	ACAD	Phasing Ctrl Ashore	B	*	(N)	G	0	4.0			8065
8066	ACPM(8)	ACAD	Information Manageme	B	*	(N)	G	0	4.0			8066
8067	ACPM(8)	ACAD	UAS Spt to the MAGTF	B	*	(N)	G	0	4.0			8067
8080	ACPM(8)	ACAD	Joint Air Ops Module	B	*	(N)	G	0	1.0			8080
8081	ACPM(8)	ACAD	C2 Joint Air Ops	B	*	(N)	G	0	4.0			8081
8082	ACPM(8)	ACAD	TAGS	B	*	(N)	G	0	4.0			8082
8083	ACPM(8)	ACAD	Joint Fire Support	B	*	(N)	G	0	4.0			8083
8084	ACPM(8)	ACAD	CAS	B	*	(N)	G	0	4.0			8084
8085	ACPM(8)	ACAD	Joint Targeting	B	*	(N)	G	0	4.0			8085

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
8086	ACPM(8)	ACAD	NATO	B	*	(N)	G	0	4.0			8086
8087	ACPM(8)	ACAD	Joint Airspace Ctrl	B	*	(N)	G	0	4.0			8087
8088	ACPM(8)	ACAD	Counter Air & Missil	B	*	(N)	G	0	4.0			8088

2.25.2 T&R Prerequisites, Chaining & Mirroring Matrix

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
1000 PHASE - Core Introduction										
2000 PHASE - Core										
3000 PHASE - Mission										
4000 PHASE - Core Plus										
4500 PHASE - Mission Plus										
5000 PHASE - Instructor Training										
	IUT(5)	5000	Principles of Instru	*	(N)	G			WTI	
	IUT(5)	5010	Event Structure	*	(N)	G			WTI	
	IUT(5)	5020	Period of Instructio	90	(N)	L			WTI	
	IUT(5)	5100	Understand T&R Prog	*	(N)	G	5000~(N), G and; 5010~(N), G and; 5020~(N), G		WTI	
	IUT(5)	5110	Community T&R	365	(N)	L	5000~(N), L and; 5010~(N), L and; 5020~(N), L		WTI	
	IUT(5)	5120	Understand T&R Admin	*	(N)	L	5000~(N), L and; 5010~(N), L and; 5020~(N), L		WTI	
	IUT(5)	5130	Dev Trng Plan	*	(N)	L	5000~(N), L and; 5010~(N), L and; 5020~(N), L		WTI	
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)										
	SCHL(6)	6000	WTI Course	*	(N)	G				
	DESG(6)	6322	WTI	*	(N)	G	6000~(N), G			
7000 PHASE - MET										
	MET(7)	7001	Airspace Management	730	(N)	L/S			WTI	
	MET(7)	7002	Immediate Air Support	730	(N)	L/S			WTI	
	MET(7)	7003	Echelon	730	(N)	L/S			WTI	
	MET(7)	7004	Procedural Control	730	(N)	L/S			WTI	
	MET(7)	7005	Aviation, Fires, Effects	730	(N)	L/S			WTI	
	MET(7)	7006	AOMSW	730	(N)	L/S			WTI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
8000 PHASE - ACPM										
	ACPM(8)	8000	MACCS Module	*	(N)	G	8001~(N), G and; 8002~(N), G and; 8003~(N), G and; 8004~(N), G and; 8005~(N), G and; 8006~(N), G and; 8008~(N), G			All ground syllabi
	ACPM(8)	8001	MACCS	*	(N)	G				All ground syllabi
	ACPM(8)	8002	TACC	*	(N)	G				All ground syllabi
	ACPM(8)	8003	DASC	*	(N)	G				All ground syllabi
	ACPM(8)	8004	TAOC	*	(N)	G				All ground syllabi
	ACPM(8)	8005	MATC	*	(N)	G				All ground syllabi
	ACPM(8)	8006	LAAD	*	(N)	G				All ground syllabi
	ACPM(8)	8008	MWCS	*	(N)	G				All ground syllabi
	ACPM(8)	8020	ACE Module	*	(N)	G	8021~(N), G and; 8022~(N), G and; 8023~(N), G and; 8024~(N), G and; 8025~(N), G and; 8026~(N), G and; 8027~(N), G and; 8028~(N), G			All ground syllabi
	ACPM(8)	8021	Aviation Ops	*	(N)	G				All ground syllabi
	ACPM(8)	8022	CTRL of A/C & Missil	*	(N)	G				All ground syllabi
	ACPM(8)	8023	OAS	*	(N)	G				All ground syllabi
	ACPM(8)	8024	Assault Support	*	(N)	G				All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8025	Aerial Recon	*	(N)	G				All ground syllabi
	ACPM(8)	8026	Electronic Warfare	*	(N)	G				All ground syllabi
	ACPM(8)	8027	Anti-Air Warfare	*	(N)	G				All ground syllabi
	ACPM(8)	8028	Aviation Grd Supp	*	(N)	G				All ground syllabi
	ACPM(8)	8040	Threat Module	*	(N)	G	8041~(N), G and; 8042~(N), G and; 8043~(N), G and; 8044~(N), G			All ground syllabi
	ACPM(8)	8041	S to A Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8042	Fixed Wing Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8043	Rotary Wing Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8044	Missile & UAS Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8060	MAGTF Module	*	(N)	G	8061~(N), G and; 8062~(N), G and; 8063~(N), G and; 8064~(N), G and; 8065~(N), G and; 8066~(N), G and; 8067~(N), G			All ground syllabi
	ACPM(8)	8061	Grd Combat Ops	*	(N)	G				All ground syllabi
	ACPM(8)	8062	Fire Support in GCE	*	(N)	G				All ground syllabi
	ACPM(8)	8063	MAGTF C2	*	(N)	G				All ground syllabi
	ACPM(8)	8064	MAGTF Comm	*	(N)	G				All ground syllabi
	ACPM(8)	8065	Phasing Ctrl Ashore	*	(N)	G				All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8066	Information Manageme	*	(N)	G				All ground syllabi
	ACPM(8)	8067	UAS Spt to the MAGTF	*	(N)	G				All ground syllabi
	ACPM(8)	8080	Joint Air Ops Module	*	(N)	G	8081~(N), G and; 8082~(N), G and; 8083~(N), G and; 8084~(N), G and; 8085~(N), G and; 8086~(N), G and; 8087~(N), G and; 8088~(N), G			All ground syllabi
	ACPM(8)	8081	C2 Joint Air Ops	*	(N)	G				All ground syllabi
	ACPM(8)	8082	TAGS	*	(N)	G				All ground syllabi
	ACPM(8)	8083	Joint Fire Support	*	(N)	G				All ground syllabi
	ACPM(8)	8084	CAS	*	(N)	G				All ground syllabi
	ACPM(8)	8085	Joint Targeting	*	(N)	G				All ground syllabi
	ACPM(8)	8086	NATO	*	(N)	G				All ground syllabi
	ACPM(8)	8087	Joint Airspace Ctrl	*	(N)	G				All ground syllabi
	ACPM(8)	8088	Counter Air & Missil	*	(N)	G				All ground syllabi

2.25.3 T&R Range, Ordnance & External Resources Matrix

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PRIMARY ORDNANCE	ALTERNATE ORDNANCE	RANGE TYPE	EXTERNAL RESOURCES	EQUIPMENT
7000 PHASE - MET								
	MET(7)	7003	Echelon	(12) A011, (12) A023, (100) A059, (20) A063, (120) A080, (800) A111, (200) A131, (800) A143, (400) A555, (100) A576, (400) A598				

CHAPTER 3

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ELECTRONIC AIRCREW TRAINING FORM (EATF) REASON CODES.....	3.24	3-135
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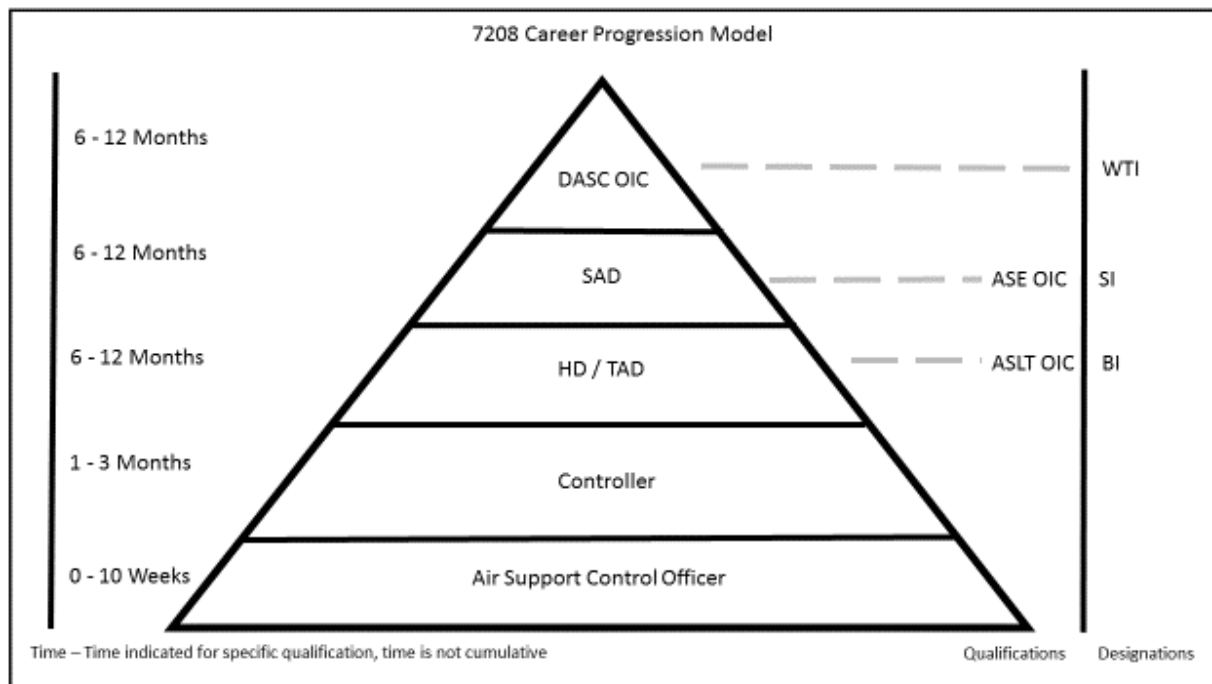
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3.0 CREWMEMBER SYLLABUS T&R REQUIREMENTS

This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in core, mission, and core plus skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

3.1 TRAINING PROGRESSION MODEL

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. This model represents minimum to maximum time to train.



3.2 PROGRAMS OF INSTRUCTION

3.2.1 General

The tables reflect the average time to train in weeks for the 1000-3000 selected phases of training.

3.2.2 Basic (B) POI

The basic crewmember shall execute the entire syllabus.

BASIC (B) PROGRAM OF INSTRUCTION		
WEEKS	COURSE	PERFORMING ACTIVITY
1-12	Core Skill Introduction Training	MCCES
13-34	Core Skill Training	TACTICAL SQUADRON
35-104	Mission Skill Training	TACTICAL SQUADRON
105-208	Core Plus	TACTICAL SQUADRON

3.2.3 Refresher (R) POI

The refresher shall execute those events annotated with an R. Commanding officers/WTOs/PTOs will review the qualifications, previous experience, currency, and demonstrated ability of Refreshers with a view towards combining required T&R events.

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

REFRESHER (R) PROGRAM OF INSTRUCTION		
WEEKS	COURSE	PERFORMING ACTIVITY
VARIES	Core Skill Training	TACTICAL SQUADRON
VARIES	Mission Skill Training	TACTICAL SQUADRON
VARIES	Core Plus	TACTICAL SQUADRON

3.3 PROFICIENCY & CURRENCY

3.3.1 Event Proficiency

Event proficiency is defined as successful completion of the performance standard as determined by the instructor or evaluator. Event completion is predicated upon demonstrated proficiency. Once completed, it is logged in M-SHARP by entering the appropriate event code. M-SHARP automatically updates the event proficiency date to reflect the completion date.

3.3.2 Skill Proficiency

Proficiency is a measure of achievement of a specific skill. To attain individual skill proficiency, an individual must be simultaneously proficient in all events for that skill. Individuals may be attaining proficiency in some skills while maintaining proficiency in others.

Maintaining Skill Proficiency. Once attained, skill proficiency is maintained by executing those events which have a proficiency period (maintain events). Proficiency periods establish the maximum time between event demonstration. Should proficiency be lost in any maintain event, for a specific skill, that skill proficiency is temporarily lost. Skill proficiency can be re-attained by again demonstrating proficiency in the event(s) that are not proficient. For flying communities, an individual shall complete delinquent events with a proficient instructor, crewman/flight lead as delineated by the T/M/S syllabus sponsor (see Chapter 3 of the Program Manual on specific instructor requirements for low altitude flight, night systems, ACM, DM, DACM, DCM, FAC(A)).

Loss Of Individual Skill Proficiency. Should an individual lose proficiency in all maintain events in a skill, the individual will be assigned to the refresher POI for the skill. To regain skill proficiency, the individual must demonstrate proficiency in all R-events for the skill.

Loss of Unit Skill Proficiency. If an entire unit loses proficiency in an event, unit instructors shall regain proficiency by completing the event with an instructor from a like unit. If not feasible, the instructor shall regain proficiency by completing the event with another instructor. For flying communities, if a unit has only one instructor and cannot complete the event with an instructor from another unit, the instructor shall regain proficiency with another aircraft commander or as designated by the CO.

Proficiency Status. Proficiency is a “Yes/No” status by skill assigned to an individual. When an individual attains and maintains core skill proficiency (CSP), mission skill proficiency (MSP), core plus skill proficiency (CPSP), or mission plus skill proficiency (MPSP), the individual may count towards CMMR or CMTS.

3.3.3 Currency

An additional control measure associated with date last flown (CNAF M-3710.7_ and wing SOPs).

Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill and applies to all MOS's that must comply with this T&R manual. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for aircrew individual type mission profiles can be found in Chapter 3 of NAVMC 3500.14

3.4 CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATION (CQD) TABLES

The table below delineates T&R events required to be proficient or waived to attain CQD. Waiving of all required events leading to a CQD is not allowed.

3.5.1 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. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (CQD) CREWMEMBER	
CQD	EVENTS
QUALIFICATION	
CTRL	3500, 6255
HD	3005, 6230
TAD	3105, 6235
SAD	3205, 6240
ASLT OIC	3300, 6245
ASE OIC	3350, 6250
DESIGNATION	
DASC OIC	3400, 6300
BI	6320
SI	6321
WTI	6322
FLCI	6325

3.5 SYLLABUS NOTES

3.5.2 Event Conditions

Refer to the following table for required event conditions.

Code	Environmental Condition
(N)	May be conducted day or night. If at night, aided or unaided.

3.5.3 Environmental Condition Settings

In addition to every T&R event header requiring an environmental condition, the following elements of a T&R event may have environmental condition settings:

Chained events (D/NS does not apply).

Prerequisite events (D/NS does not apply)

3.5.4 Device Matrix

DEVICE	
Symbol	Meaning
L	Conducted using Unit T/E equipment.
L/S	Live preferred/Simulator acceptable.
S/L	Simulator preferred/Live acceptable.
G	Ground/academic training.

3.5.5 Program of Instruction Matrix

PROGRAM OF INSTRUCTION MATRIX		
Program of Instruction (POI)	Symbol	Description
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/CPSP/MSPS by initial POI assignment are re-assigned to the M POI to maintain proficiency.

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3.5.6 Event Terms

EVENT TERMS	
TERM	DESCRIPTION
Discuss	An explanation of systems, procedures, or maneuvers during the brief, in flight, or post flight. Student is responsible for knowledge of procedures.
Define	State or describe exactly the nature, scope or meaning of
Demonstrate	The description and performance of a particular maneuver/event by the instructor, observed by the PUI/student. The PUI/student is responsible for knowledge of the procedures prior to the demonstration of a required maneuver/student.
Introduce	The instructor may demonstrate a procedure or maneuver to a student or may coach the PUI through the maneuver without demonstration. The PUI performs the procedures or maneuver with coaching as necessary. The PUI is responsible for knowledge of the procedures.
Practice	The performance of a maneuver or procedure by the PUI/student that may have been previously introduced in order to attain a specified level of performance.
Review	Demonstrated proficiency of a maneuver by the PUI/student.
Evaluate	Any event designed to evaluate team/crew standardization that does not fit another category.

3.6 CORE INTRODUCTION PHASE

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.

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. Aviation Command and Control Commons Course (CID M09C2A1) located at Marine Corps Communication-Electronics School (MCCES) in 29 Palms, CA. Air Support Control Officer Course (CID M09T0A1) located at Marine Corps Communication-Electronics School (MCCES) in 29 Palms, CA.

Prerequisites. Meet the 7208 requirements delineated in MCO 1200.17 (Military Occupational Specialties (MOS) Manual).

CORE INTRODUCTION PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
CAIRS(1)	3.7.1	3-6
AIRS(1)	3.7.2	3-18

3.7 CORE INTRODUCTION STAGES3.7.1 Common Air School (CAIRS(1)) (CAIRS(1))Purpose

To provide entry-level classroom instruction on Aviation Command and Control (AC2) concepts, regulations, procedures, and operating techniques as well as Marine Aviation Command and Control Systems (MACCS) doctrine and capabilities. This stage is designed as a foundation for all AC2 officers prior to commencing their terminal course of instruction. The instruction ensures understanding and application of AC2 rules and regulations required for an AC2 officer to qualify and perform MACCS functions in a Tactical Air Operations Center, Direct Air Support Center, Low Altitude Air Defense section, Air Traffic Control facility, or Tactical Air Command Center.

General

Prerequisite. None.

Admin Notes

Administrative Notes. None.

Crew Requirements. None.

CAIRS-1000 0.0 * B (N) 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 Standards. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. The presented plan must support the scenario.

Instructor

AND/OR	If Event 1000 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

- References.
1. MCTP 3-20C, Antiair Warfare
 2. MCTP 3-20D, Offensive Air Support
 3. MCTP 3-20E, Assault Support
 4. MCTP 3-20F, Control of Aircraft and Missiles
 5. MCRP 3-20F.2, Marine Tactical Air Command Center Handbook
 6. MCRP 3-20F.5, Direct Air Support Center Handbook
 7. MCRP 3-20F.6, Tactical Air Operations Center Handbook
 8. MCRP 3-20F.7, Marine Air Traffic Control Detachment Handbook
 9. MCRP 3-20F.8, Low Altitude Air Defense Battalion Handbook
 10. MCTP 3-20G, Air Reconnaissance
 11. MCRP 3-32D.1, Electronic Warfare
 12. MCRP 3-20.5, Unmanned Aircraft Systems Operations

CAIRS-1002 0.0 * B (N) G

Goal. Identify the components of Marine Air Ground Task Force (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 Standards. Pass an exam.

Instructor

AND/OR	If Event 1002 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. JP 3-09, Joint Fire Support

3. MCDP 1-0, Marine Corps Operations

4. MCDP 3, Expeditionary Operations

5. MCTP 3-20F, Control of Aircraft and Missiles

6. MCRP 3-20F.5, Direct Air Support Center Handbook

7. MCRP 8-10B.10, Radio Operator's Handbook

8. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element

9. MCRP 1-10.2, MC Supplement to DOD dictionary of military and associated terms

CAIRS-1004 0.0 * B (N) G

Goal. Identify characteristics of Aviation Command and Control.

Requirement

Identify the following:

1. Identify the six functions of Marine Aviation.
2. Identify characteristics of organizations in the Marine Air Wing (MAW).
3. Identify characteristics of units in the Marine Air Control Group (MACG).
4. Identify characteristics of agencies in the Marine Air Command and Control System (MACCS).
5. Identify characteristics of U. S. ground-based air defense platforms.

Performance Standards. Pass an exam.

References. 1. MCWP 3-2, MAGTF Aviation Operations

2. MCTP 3-20C, Anti-air Warfare

3. MCTP 3-20F, Control of Aircraft and Missiles

4. MCRP 3-20F.8, Low Altitude Air Defense Battalion Handbook

5. MCWP 3-25.3, Marine Air Command and Control System Handbook

6. MCRP 3-20F.2, Marine Tactical Air Command Center Handbook

7. MCRP 3-20F.5, Direct Air Support Center Handbook

8. MCRP 3-20F.6, Tactical Air Operations Center Handbook

9. MCRP 3-20F.7, Marine Air Traffic Control Detachment Handbook

CAIRS-1006 0.0 * B (N) 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 Standards. Pass an exam.

Instructor

AND/OR	If Event 1006 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. SECNAVINST 5510, Physical Security

2. MCO P5510.1A, Physical Security

3. EKMS 1□, Policy and Procedures

CAIRS-1008 0.0 * B (N) G

Goal. Identify Aviation Ground Support (AGS).

Requirement

Given the references the student will demonstrate an understanding of AGS, including:

1. Define AGS.
2. The eleven AGS functions.
3. The unit within the MAW that performs AGS.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 1008 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCTP 3-20.B, Aviation Ground Support

CAIRS-1010 0.0 * B (N) G

Goal. Introduce Marine Air Command and Control System (MACCS) equipment.

Requirement

Identify the role, mission, equipment, and organization of the MACCS, to include the following agencies:

1. Tactical Air Command Center (TACC).
2. Tactical Air Operations Center (TAOC).
3. Direct Air Support Center (DASC).
4. Marine Air Traffic Control Detachment (MATCD).
5. Marine Air Traffic Control Mobile Team (MMT).
6. Low Altitude Air Defense (LAAD) Battalion Extensions of the MACCS.
7. Marine Wing Communications Squadron (MWCS).

Performance Standards. Pass a practical exam.

Instructor

AND/OR	If Event 1010 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCRP 3-20F.2, Marine Tactical Air Command Center Handbook

2. MCRP 3-20F.6, Tactical Air Operations Center Handbook

3. MCRP 3-20F.5, Direct Air Support Center Handbook

4. MCRP 3-20F.7, Marine Air Traffic Control Detachment Handbook

5. MCRP 3-20F.9, Low Altitude Air Defense (LAAD) Gunner's Handbook

6. MCRP 3.30B.2, MAGTF Communications Systems

7. MCRP 3-20.5, Unmanned Aircraft Systems Operations

CAIRS-1012 **0.0 * B** **(N) G**

Goal. Identify characteristics of Aircraft.

Requirement

Identify the following:

1. Identify characteristics of U.S. Aircraft.
2. Identify characteristics of U. S. aviation ordnance.
3. Identify characteristics of threat aircraft.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 1012 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. NTTP 3-22.1, FA18

2. NTTP 2-22.1, EA6B

3. AFTTP 3-1, vol. 1, Attachment 3

4. AFTTP 3-1.2, Threat Reference guide and Counter tactics

5. TOPGUN Manual, Chapter 14, Threat Aircraft

6. TOPGUN Manual, Chapter 26, AIM-9/Aerial Gunnery

7. TOPGUN Manual, Chapter 28, AIM-120

CAIRS-1014 **0.0 * B** **(N) 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 Standards. With the aid of reference, pass an exam.

Instructor

AND/OR	If Event 1014 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. CJCSM 3115.01, Joint Data Network Operations

2. CJCSM 6120.01, Joint Multi-TDL Operating Procedures
3. MCTP 3-20C, Antiair Warfare
4. MCTP 3-20D, Offensive Air Warfare
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

CAIRS-1016 0.0 * B (N) G

Goal. Identify operational graphics.

Requirement

The student will identify operational terms, unit symbols, and graphic control measures with the aid of a locally produced scenario, 1:50,000 map, 1:250,000 map, overlays, and map pens. The following information will be included:

1. MACCS unit symbols.
2. Symbols for adjacent and supporting/supported units locations.
3. Maneuver and Command and Control.
4. Fire Support Coordination Measures.
5. Airspace Coordinating Measures.
6. Air Defense Control Measures.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 1016 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCRP 5-12A, Operational Terms and Graphics

2. MCRP 1-10.2, MC Supplement to DOD dictionary of military and associated terms

CAIRS-1018 0.0 * B (N) G

Goal. Identify the elements of an Integrated Air Defense System (IADS).

The student will understand the construct of an IADS, including:

- Performance Standards. Pass an exam.

2. MCTP 3-20C, Antiair Warfare

- | | | | | | |
|-------------------|------------|----------|----------|------------|----------|
| CAIRS-1020 | 0.0 | * | B | (N) | G |
|-------------------|------------|----------|----------|------------|----------|

With the aid of references, perform the following:

- Instructor

	If Event 1020 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	G		FLCI	DASC ASCO (7208)

9. MIL-STD-6040, USMTF Interface Standard

CAIRS-1022 **0.0** ***** **B** **(N)** **G**

3-12

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 Standards. With the aid of reference, pass an exam.

Instructor

AND/OR	If Event 1022 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

- References.
1. MCTP 3-30B, Information Management
 2. MCRP 3-30B.2, MAGTF Communication Systems

CAIRS-1024 0.0 * B (N) G

Goal. Introduce the six functions of Marine Aviation.

Requirement

- Describe the six functions of Marine aviation to include:
1. Offensive Air Support (OAS).
 - a. Purpose of OAS.
 - b. Requirements for Deep Air Support (DAS).
 - c. Requirements for Close Air Support (CAS).
 - d. Differences between immediate and pre-planned OAS.
 - e. Marine Corps airframes that have the primary mission of OAS.
 - f. The unit(s)/agency(ies) within the MACG/MACCS that coordinate(s) OAS.
 2. Assault Support.
 - a. Purpose of Assault Support.
 - b. Sub-categories of Assault Support.
 - c. Differences between immediate and pre-planned Assault Support.
 - d. Marine Corps airframes that have the primary mission of Assault Support.
 - e. The unit(s)/agency(ies) within the MACG/MACCS that coordinate(s) Assault Support.
 3. Aerial Reconnaissance.
 - a. Purpose of aerial reconnaissance.
 - b. Two types of aerial reconnaissance.
 - c. Which aviation platforms can conduct aerial reconnaissance.
 - d. The unit and system within the MACG that has the primary mission of aerial reconnaissance.
 4. Antiair Warfare (AAW).
 - a. The definition of AAW.
 - b. The two types of AAW.
 - c. Which units within the MACG have the primary mission of AAW.
 - d. The Marine Corps' air defense systems responsible for conducting AAW operations.
 - e. The basic construct of an Integrated Air Defense System (IADS).
 - f. Air Defense Warning Conditions.
 - g. Weapons Control Statuses.

- h. The purpose of a Bulls Eye.
- i. Air Defense Communication/data link methods.
- 5. Electronic Warfare (EW).
 - a. Identify the definition and purpose for EW.
 - b. Identify the sub-sets of EW.
 - c. Identify which units within the Marine Corps conduct EW.
 - d. Identify the procedures used within the DASC to report enemy Electronic Attack operations.
- 6. Control of Aircraft and Missiles.
 - a. Marine Corps' philosophy for Command and Control.
 - b. Purpose for Control of Aircraft and Missiles.
 - c. Structure of the MACCS and each agency's purpose.
 - d. Which agencies of the MACCS utilize positive control.
 - e. Which agencies of the MACCS utilize procedural control.
 - f. Agencies responsible for command and control of expeditionary operations.
 - g. Definitions of Air Direction and Air Control.
 - h. Become familiar with the Theater Air-Ground System (TAGS).
 - i. Become familiar with the doctrine for command and control of expeditionary operations.

Performance Standards. Pass a practical exam.

Instructor

AND/OR	If Event 1024 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. JP 1-02, Joint Dictionary of Definition and Terms

- 2. JP 3-02, Amphibious Operations
- 3. JP 3-09.3, Close Air Support
- 4. JP 3-13.1, Electronic Warfare
- 5. JP 3-30, Command and Control of Joint Air Operations
- 6. JP 3-50, Personnel Recovery
- 7. JP 3-52, Joint Airspace Control
- 8. JP 6-0, Communications Systems
- 9. MCDP 3, Expeditionary Operations
- 10. MCRP 1-10.2, Marine Corps Supplement to DOD dictionary of military and associated terms
- 11. MCRP 2-10B.5, Imagery Intelligence
- 12. MCTP 3-01B, Helicopterborne Operations
- 13. MCWP 3-10, Ground Combat Operations
- 14. MCWP 3-20, MAGTF Aviation Operations
- 15. MCTP 3-20C, Antiair Warfare
- 16. MCTP 3-20D, Offensive Air Warfare
- 17. MCRP 3-20D.2, Deep Air Support
- 18. MCTP 3-20E, Assault Support
- 19. MCTP 3-20F, Control of Aircraft and Missiles
- 20. MCTP 3-20G, Air Reconnaissance

21. MCRP 3-20.1, MTTP for the Theater Air-Ground System (TAGS)
22. MCRP 3-20.5, Unmanned Aircraft Systems Operations
23. MCTP 3-30A, Command and Staff Action
24. MCTP 3-30B, Information Management
25. MCRP 3-30B.2, MAGTF Communication Systems
26. MCRP 3-31.2, Suppression of Enemy Air Defenses (SEAD)
27. MCRP 3-31.3, MTTP for J-SEAD
28. MCRP 3-31.6, MTTP for Joint Application of Firepower(JFIRE)
29. MCRP 3-32D.1, Electronic Warfare
30. MCTP 10-10B, MTTP for an Integrated Air Defense System (IADS)
31. CJCSM 6120.01, Joint Multi TDL Operating Procedures

CAIRS-1026 **0.0** ***** **B** **(N)** **G**

Goal. Introduce airspace, navigation, and time.

Requirement

Describe the National Airspace System (NAS), time conversions, and basic navigation.

Performance Standards. Pass a written exam.

Instructor

AND/OR	If Event 1026 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. JO 7110.65, Air Traffic Control

2. NAVAIR 00-80V-49, Air Navigation

CAIRS-1028 **0.0** ***** **B** **(N)** **G**

Goal. Introduce weather as applied to MACCS.

Requirement

Describe aviation weather to include:

1. Basic weather characteristics.
2. Weather hazards.
3. Aviation weather observations.
4. Aviation weather forecasts.
5. Weather advisories.
6. Weather observing programs.

Performance Standards. Pass a written exam.

Instructor

AND/OR	If Event 1028 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. JO 7110.65, Air Traffic Control
2. NAVMETOCCOMINST 3141.2, Surface Weather Observation Procedures

CAIRS-1030 **0.0** ***** **B** **(N)** **G**

Goal. Introduce the Training and Readiness (T&R) Manual.

Requirement

Describe the T&R Program.

Performance Standards. Pass a written exam.

Instructor

AND/OR	If Event 1030 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCO P3500.14, Aviation T&R Program
2. NAVMC 3500.14_, Aviation T&R Program Manual
3. Marine Sierra Hotel Aviation Readiness Program (MSHARP)

CAIRS-1032 **0.0** ***** **B** **(N)** **G**

Goal. Conduct Information Security.

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 Standards. With the aid of reference, pass an exam.

Instructor

AND/OR	If Event 1032 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCRP 3-30B.2, 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

CAIRS-1034 **0.0 * B** **(N) G**

Goal. Introduce basic radar services provided by the MACCS.

Requirement

Describe basic radar services and procedures.

Performance Standards. Pass a written exam.

Instructor

AND/OR	If Event 1034 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. JO 7110.65, Air Traffic Control

CAIRS-1036 **0.0 * B** **(N) G**

Goal. Identify the air command and control structure within the Joint Force.

Requirement

In an academic setting, the student will understand joint Air Command and Control structure and responsibilities.

1. Become familiar with the Theater Air-Ground System (TAGS).
2. Become familiar with the doctrine for command and control of expeditionary operations.
3. The responsibilities of the JFACC.
4. The responsibilities of the ACA.
5. The primary responsibility of the AADC.
6. The subordinate commanders the AADC may designate in order to maximize responsiveness to the threat.
7. The responsibilities of the RADC.
8. The agency within the MACCS that will most likely be assigned the role of SADC.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 1036 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

- References. 1. JP 1, Doctrine for the Armed Forces of the United States
2. JP 3-0, Joint Operations
3. JP 3-30, Command and Control for Joint Air Operations
4. JP 3-52, Joint Airspace Control
5. JP 3-01, Countering Aircraft and Missiles
6. MCTP 3-20F, Control of Aircraft and Missiles

CAIRS-1038 **0.0** ***** **B** **(N)** **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 Standards. Pass an exam.

Instructor

AND/OR	If Event 1038 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. AFTTP 3-1, Threat Guide

3.7.2 Air School (AIRS(1)) (AIRS(1))

AIRS-1118 **0.0** ***** **B** **(N)** **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 Standards. Pass an exam.

Instructor

AND/OR	If Event 1118 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. AFTTP 3-1, Threat Guide

AIRS-1120 **0.0** ***** **B** **(N)** **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 Standards. With the aid of references, pass a practical application exam without error.

Instructor

AND/OR	If Event 1120 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

- References. 1. JP 6-0, Communications Systems
2. MCTP 3-25, Control of Aircraft and Missiles
 3. MCRP 3-20.F.5, DASC Handbook
 4. MCWP 3-30, MAGTF C2
 5. MCTP 3-30B, Information Management
 6. MCRP 3-30B.2, MAGTF Communication Systems
 7. Guide to the USMTF User Formats - OPERATIONAL TASKING LINKS
 8. DISA USMTF Baseline, <https://www.us.army.mil/suite/community/15897960>
 9. CJCSM 6120.01, Joint Multi TDL Operating Procedures
 10. MIL-STD-6040, USMTF Interface Standard

AIRS-1124 **0.0** ***** **B** **(N)** **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.

- Performance Standards. Pass an exam.

	If Event 1124 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	G		FLCI	DASC ASCO (7208)

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

Goal. Identify the characteristics, capabilities, and limitations of the CAC2S.

1. Describe AC2S.
2. Describe the CS.

	If Event 1126 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	G		BI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 1126 Conducted In		If 1126 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				2115

References. 1. TM 10566C-OI/1

2. TM 10566D-OI

3. Harris quick reference pocket guide for the AN/PRC 117

4. Harris quick reference pocket guide for the AN/PRC 150

5. MCRP 3-20F.5, Direct Air Support Center Handbook

AIRS-1128 **0.0 * B** **(N) G**

Goal. Conduct communications utilizing an aviation C2 system.

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 to transmit.
5. Operate a radio network.

Performance Standards. With the aid of reference, pass an exam.

Instructor

AND/OR	If Event 1128 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCRP 3-30B.2, MAGTF Communication Systems

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 **0.0 * B** **(N) 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 Standards. With the aid of reference, pass an exam.

Instructor

AND/OR	If Event 1130 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

- References.
1. MCRP 3-30B.2, MAGTF Communication Systems
 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 0.0 * B (N) 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 tactical data system.
9. Maintain TAD/HD aircraft mission status boards/displays.
10. Locate tracks using Global Area Reference System (GARS).

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 1132 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. JP 2-03, Geospatial Intelligence Support to Joint Operations

2. MCTP 3-20F, 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 **0.0** * **B** **(N)** **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 Standards. Pass an exam.

Instructor

AND/OR	If Event 1134 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. JP 3-09.3, Joint Close Air Support

AIRS-1136 **0.0** * **B** **(N)** **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.
16. Observe MACCS simulation capability.

Performance Standards. With the aid of reference, pass an exam.

Instructor

	If Event 1136 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	G		FLCI	DASC ASCO (7208)

References. 1. TM 12041A/12050A-OD2, CAC2S User Manual

- ## 2. MSCT Display User's Manual

AIRS-1144	0.0	*	B	(N)	G
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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. 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 Standards. Pass an exam.

Instructor

	If Event 1144 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	G		FLCI	DASC ASCO (7208)

References. 1. MCTSSA's Marine Corps Tactical Data Systems Reference Guide

AIRS-1152	0.0	*	B	(N)	G
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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 Method to RIO F/W aircraft.
6. Accurately control common F/W missions:
 - a. CAS.
 - b. XCAS.
 - c. FAC(A).
 - d. Reconnaissance.
 - e. Refueling.
 - f. SCAR.
 - g. UAS.
 - h. Downed A/C.
7. Pass/Receive air support requests to and from F/W aircraft.
8. Give a crew brief.

Performance Standards. Without the aid of reference, pass a test and apply knowledge gained in practical application using the DASC.

Instructor

AND/OR	If Event 1152 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

AIRS-1154 **0.0 * B** **(N) 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 Method to RIO R/W aircraft.
 6. Accurately control common R/W missions:
 - a. CASEVAC.
 - b. CAS.
 - c. Airborne Extensions
 - d. Reconnaissance.
 - e. VIP.
 - f. Troop Insert.
 - g. UAS.
 - h. Logistics.
 7. Pass/Receive air support requests to and from R/W aircraft.
 8. Give a crew brief.

Performance Standards. Without the aid of reference, pass a test and apply knowledge gained in practical application using the DASC.

Instructor

AND/OR	If Event 1154 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	FLCI	DASC ASCO (7208)

References. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

3.8 CORE PHASE

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.

General.

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.

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

CORE PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ACAD(2)	3.9.1	3-26
COMM(2)	3.9.2	3-30
EQUIP(2)	3.9.3	3-33
EXT(2)	3.9.4	3-34
CTRL(2)	3.9.5	3-37
DOIC(2)	3.9.6	3-40
FAM(2)	3.9.7	3-44
SAD(2)	3.9.8	3-46
TDL(2)	3.9.9	3-49
C2SYS(2)	3.9.10	3-60

3.9 CORE STAGES

3.9.1 Academics (ACAD(2)) (ACAD(2))

Purpose

To review, develop and evaluate knowledge of DASC operations, systems and procedures.

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 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 MCRP 3-20F.5, Direct Air Support Center Handbook.

ACAD-2055 1.0 * B (N) G

Goal. Describe Airspace Coordinating Measures (ACMs) / Fire Support Coordination Measures (FSCMs).

Requirement

Perform the following:

1. Describe the ACM request process.
2. Describe common ACMs, and provide examples of each.
3. Describe FSCMs commonly used by the MAGTF.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 2055 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. JP 3-52, Joint Doctrine for Airspace Control

2. MCTP 3-10F, Fire Support Coordination in the GCE

ACAD-2060 **1.0 * B (N) 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. Interpret a Pilot Report (PIREP).
4. Given a scenario by the instructor, identify the potential impacts to aviation operations of various weather conditions.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 2060 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. MCRP 2-10B.6, MAGTF Meteorological and Oceanographic Support

2. Federal Meteorological Handbook No. 1

3. FAA JO 7110.10Z, Chapter 9, Section 2

ACAD-2065 **1.0 1095 B, R, M (N) G**

Goal. Describe aviation ordnance.

Requirement

Provided a list of common examples of air-to-ground ordnance, describe each to include:

1. Nomenclature and/or short title.
2. Provide general effect of ordnance.
3. Guidance scheme.
4. Provide examples of targets it is effective against.
5. Provide examples of USMC aircraft that can employ it.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 2065 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. MCRP 3-31.6, MTTP For the Joint Application of Firepower

ACAD-2070 **1.0** ***** **B** **(N)** **G**

Goal. Describe Reconnaissance, Selection, and Occupation of Position (RSOP) and briefing considerations.

Requirement

Perform the following:

1. Describe the purpose of conducting RSOP.
2. Identify key personnel in the conduct of RSOP.
3. Identify positions to be marked during the conduct of RSOP.
4. Identify communications requirements.
5. Identify threat considerations and security to mitigate threats.
6. Identify DASC employment considerations.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 2070 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. MAWTS-1 DASC TACSOP

2. MCRP 3-20F.5, Direct Air Support Center Handbook

3. MCRP 3-10E.3, TTP For the Field Artillery Cannon Battery

ACAD-2075 **2.0** ***** **B** **(N)** **G**

Goal. Explain the targeting cycle.

Requirement

Given the references, discuss the targeting process, to include:

1. Joint Targeting Cycle.
2. Marine Corps Targeting Cycle.
3. Inputs and products of the cycle.
4. DASC and extensions role in the targeting cycle.
5. Key players.

Performance Standards. 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

AND/OR	If Event 2075 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. MCTP 3-10F, Fire Support Coordination in the GCE

2. JP 3-60, Joint Targeting

ACAD-2080 **1.0** ***** **B** **(N)** **G**

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 Standards. Brief the characteristics of each ship.

Instructor

AND/OR	If Event 2080 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

- References. 1. MCRP 3-31B, Amphibious Ships and Landing Craft Data Book
2. MAWTS-1 Maritime Capabilities Courseware
3. MCTP 3-31A, Supporting Arms Coordination in Amphibious Operations

ACAD-2085 **1.0 * B** **(N) G**

Goal. State the configuration of a FSCC and 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.
4. The members of a FSCC and their responsibilities at each GCE echelon.

Performance Standards. Without the aid of references, pass an exam.

Instructor

AND/OR	If Event 2085 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

- References. 1. JP 1-02, DOD Dictionary of Military and Associated Terms
2. JP 3-09.3, Close Air Support
3. MCTP 3-10F, Fire Support Coordination in the GCE
4. MCRP 3-10F.2, Supporting Arms Observer Spotter and Controller
5. MCRP 1-10.1, Organization of Marine Corps Forces
6. MAWTS-1 TACP TACSOP

ACAD-2090 **1.0 * B** **(N) G**

Goal. Describe deep air support (DAS), strike coordination and reconnaissance (SCAR), and Kill Box employment.

Requirement

Without the aid of reference, perform the following:

1. Describe the purpose of the strike coordination and reconnaissance (SCAR).

2. Define SCAR brevity codes including investigate, target, smack.
3. Define air interdiction (AI), airborne alert air interdiction (XAI), armed reconnaissance (AR), and striker.
4. Define prioritized target list and provide a notional example.
5. Describe the roles and responsibilities of the kill box coordinator (KBC).
6. Describe a blue kill box.
7. Describe a purple kill box.
8. Describe and draw the parameters of the global area reference system (GARS).
9. Identify on a 1:50,000 map, GARS keypads.
10. Define and explain fires and airspace status including open, closed, hot, and cold.
11. Define kill box terminology.

Performance Standards. Without the aid of references, pass an exam.

Instructor

AND/OR	If Event 2090 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. 1. MCRP 3-31.4, MTTP for Kill Box Employment

2. 2. MCRP 3-20D.1 MTTP SCAR

3. 3. MCTP 3-20D, Offensive Air Support

4. 4. JP 2-03 Geospatial Intelligence

5. 5. MAWTS-1 DASC TACSOP

3.9.2 Communications (COMM(2)) (COMM(2))

Purpose

To develop proficiency in utilizing MASS organic field radios and communications procedures

COMM-2100 1.0 * B (N) L/S

Goal. Perform Pacific Numeral Cypher Authentication.

Requirement

Given a, 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.
9. Perform Chattermark Procedures

Performance Standards. Complete each requirement IAW the reference. Minor errors corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor

AND/OR	If Event 2100 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

- References. 1. MCRP 8-10B.10, Radio Operator's Handbook
 2. MCRP 3-20F.4, MTTP for Airspace Control
 3. Allied Communication Publication (ACP) 125 (F), Communication Instructions – Radio Telephone Procedures
 4. MAWTS-1 ASTACSOP
 5. MAWTS-1 ACEOI

COMM-2115 1.0 * B (N) L/S

Goal. Describe MASS T/E radios.

Requirement

Given a tactical radio, state the following:

1. State the characteristics, capabilities, and limitations of the radio for HF/VHF/UHF, to include MRC vehicles.
2. State the purpose and associated frequency spectrum for Frequency Hopping and HAVE QUICK.

Performance Standards. State the requirement items IAW the applicable Technical Manuals (TM); minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 2115 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

References. 1. Applicable technical manual or operator's manual.

COMM-2120 1.0 730 B, R, M (N) L/S

Goal. Utilize a man portable radio.

Requirement

Given a tactical 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.
 - Establish plain text communications

Performance Standards. 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

AND/OR	If Event 2120 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

Prerequisites

EVENTS					
AND/OR	If 2120 Conducted In		If 2120 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI
	(N)	L/S			
AND	(N)	L/S			

References. 1. 1. TM 11927A-OR, AN/PRC-117G

2. 2. TM 10597A-OR/4, AN/PRC-117F

3. 3. TM 10822A-OR, AN/PRC-150

4. 4. TM 11496A-OI/3, AN/PRC-152

COMM-2130 2.0 * B (N) L/S

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.

Determine source of the communication problem:

a. Operator error.

b. System degradation.

c. System jamming.

d. System intrusion.

e. System interference.

Given an operational DASC and a scenario with verifiable communications problems:

4. Correct the problem by initiating appropriate action and/or reports.

Performance Standards. 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

AND/OR	If Event 2130 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

Prerequisites

EVENTS					
AND/OR	If 2130 Conducted In		If 2130 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI
	(N)	L/S			
AND	(N)	L/S			

References. 1. MCRP 3-40.3B, Radio operator's handbook

2. MCRP 3-40.3C, Antenna Handbook

3. MCRP 3-30B.2, MAGTF Communications Systems

COMM-2135 **2.0** ***** **B** **(N)** **L/S**

Goal. Describe a retransmit station.

Requirement

Given two outstation radios, two retransmit radios, and a retransmit cable, perform and conduct the following:

1. Define red retransmission.
2. Define black retransmission.
3. Draw the retransmission functionality as it relates to DASC operations and communicating with aircraft with terrain in between.
4. Once programmed, complete a radio check using separate frequencies for outstation radios A and D for a red retransmission station.
5. Once programmed, complete a radio check using separate frequencies for outstation radios A and D for a black retransmission station.

Performance Standards. Complete requirement items IAW the reference; minor errors corrected by the trainee are acceptable, but the event must end in a completed radio loop validating the retransmit station.

Instructor

AND/OR	If Event 2135 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

References. 1. 1. AN/PRC-117G Multiband Manpack Radio Operation Manual

2. 2. AN/PRC-117G Retransmit Application Note

3. 3. <https://tcpremier.l3harris.com/> - Harris premier account

3.9.3 Equipment (EQUIP(2)) (EQUIP(2))

Purpose

To develop proficiency in utilizing DASC operational equipment and hardware.

EQUIP-2155 **1.5** **365** **B, R, M** **(N)** **L**

Goal. As a part of a team, emplace, maintain, and displace the Operations Facility (OPFAC).

Requirement

Complete the following:

1. Emplace and set up the OPFAC tents.
2. Assist in the setup of the power distribution components/utilities equipment.
3. Assist in the setup of the network infrastructure components/communications equipment.
4. Assist in the setup of the visual display equipment.
5. Assist in the OPFAC operator initializing equipment to include start up and problem identification.
6. Conduct limited maintenance/repair OPFAC tents.
7. Clean, teardown, and repack OPFAC tents.

Performance Standards. With a DASC Crew and references, demonstrate the ability to perform requirement under general supervision.

Instructor

AND/OR	If Event 2155 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. TM 12041A/12050A-OD2, CAC2S User Manual

2. BASE-X Manual

3. MAWTS-1 DASC TACSOP

EQUIP-2160 1.0 * B (N) G

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. Explain the purpose of SL-3 gear and where to find the list.
 - c. 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
 - c. State the relationship between utility equipment and specific DASC configurations.
3. Hazardous materials.

Explain proper hazardous material handling.

Performance Standards. Identify and explain the required items IAW the references; minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 2160 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. 1. TM 12041A/12050A-OD2, CAC2S User Manual

2. 2. MAWTS-1 DASC TACSOP

3.9.4 Extension (EXT(2)) (EXT(2))

Purpose

To develop technical expertise in DASC Extension employment. At the conclusion of this stage of training, the trainee will have attained all the skills to be considered a core skill proficient for either Air Support Element OIC, Air Support Liaison Team OIC, or both.

Admin Notes

1. The majority of these events are briefings to ensure that the trainee understands the basics of ASE and ASLT duties. Therefore, all Core Skills events should be completed before Mission Skills events. Duties may take place at the CE, GCE, LCE, or with the joint force.
2. Proper execution of liaison relies on knowledge of the appropriate orders and operations documents.

EXT-2200 1.0 1095 B, R, M (N) L/S

Goal. Brief a GCE Scheme of Maneuver.

Requirement

Given the references, a GCE scheme of Maneuver, supporting documents, and a tactical scenario:

1. Brief FSCMs, ACMs, and Maneuver Control Measures affecting operations.
2. Brief fire support assets, capabilities and limitations, and Fire Support Plan.
3. Brief direct air support requirements and friction points.
4. Brief priority of fires by phase of the operation.
5. Brief targeting products (RAGM, AGM, HPTL, etc.).

Performance Standards. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee.

Instructor

AND/OR	If Event 2200 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2200 Conducted In		If 2200 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L/S				2065
AND	(N)	L/S				2075
AND	(N)	L/S				2085
AND	(N)	L/S				2090
AND	(N)	L/S				8000
AND	(N)	L/S				8020
AND	(N)	L/S				8060

- References. 1. 1. MCDP 1-0, Marine Corps Operations
2. 2. MCRP 1-10.1, Organization of Marine Corps Forces
3. 3. MAWTS-1 DASC TACSOP

EXT-2205 1.0 * B (N) L/S

Goal. Brief the purpose, capabilities and limitations of an ASE.

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:

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.
4. Brief support requirements (i.e. logistics, communications, command relationships).

Performance Standards. 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

AND/OR	If Event 2205 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2205 Conducted In		If 2205 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2060
AND	(N)	L/S				2070
AND	(N)	L/S				2075
AND	(N)	L/S				2085
AND	(N)	L/S				2090
AND	(N)	L/S				2115
AND	(N)	L/S				8000
AND	(N)	L/S				8020
AND	(N)	L/S				8060

References. 1. 1. JP 3-02, Amphibious Operations

2. 2. MCDP 1-0, Operations

3. 3. MCRP 3-20F.5, Direct Air Support Center Handbook

4. 4. MCTP 3-31A, Supporting Arms Coordination in Amphibious Operations

5. 5. MAWTS-1 DASC TACSOP

EXT-2210 1.0 * B (N) G

Goal. Describe Naval C2 Entities.

Requirement

Without the aid of reference, state the purpose, roles, and responsibilities of:

1. Navy Tactical Air Command Center (TACC) and it's subsections.
2. Navy Tactical Air Direction Center (TADC).
3. Supporting Arms Coordination Center (SACC).
4. Landing Force Operations Center (LFOC).

Performance Standards. Without the aid of references, pass an exam.

Instructor

AND/OR	If Event 2210 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2210 Conducted In		If 2210 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				2055
AND	(N)	G				2065
AND	(N)	G				2075
AND	(N)	G				2080
AND	(N)	G				2085
AND	(N)	G				2090
AND	(N)	G				8000
AND	(N)	G				8020
AND	(N)	G				8060

- References. 1. 1. JP 3-02, Amphibious Operations
2. 2. MCTP 3-31A, Supporting Arms Coordination in Amphibious Operations
3. 3. NTTP 3-01.3.2 Expeditionary / Amphibious Air Control Operations
4. 4. MAWTS-1 DASC TACSOP

EXT-2215 1.0 * B (N) L/S

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:

1. Brief the doctrinal purpose of an ASLT.
2. Brief the proper Crew Resource Management (CRM).
3. Brief the capabilities and limitations based on T/O and T/E.
4. Brief support requirements (i.e. logistics, communications, command relationships).

Performance Standards. 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

AND/OR	If Event 2215 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2215 Conducted In		If 2215 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L				2065
AND	(N)	L				2070
AND	(N)	L				2075
AND	(N)	L				2085
AND	(N)	L/S				2115
AND	(N)	L				8000
AND	(N)	L				8020
AND	(N)	L				8060

- References. 1. 1. MCDP 1-0, Marine Corps Operations
2. 2. MCTP 3-10F, Fire Support Coordination in the GCE
3. 3. MCRP 3-20F.5, Direct Air Support Center Handbook
4. 4. MAWTS-1 DASC TACSOP

3.9.5 Procedural Control (CTRL(2)) (CTRL(2))

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.

CTRL-2240 1.0 * B (N) 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.

Performance Standards. 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

AND/OR	If Event 2240 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

- References. 1. 1. NTPP 3-22.5, USMC Assault Support TACSOP
2. 2. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element
3. 3. MCTP 3-20F, Control of Aircraft and Missiles
4. 4. MCRP 3-20F.5, Direct Air Support Center Handbook

CTRL-2405 4.0 * B (N) L/S

Goal. Conduct Tactical Air Director (TAD) or Helicopter Director (HD) duties in a Chemical Biological Radiological Nuclear (CBRN) environment.

Requirement

Given a scenario, begin in MOPP-0 and graduate to MOPP-IV over a period of time. While increasing MOPP levels:

1. Perform as TAD or HD.
2. Conduct a debrief on CBRN procedures.

Performance Standards. 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

AND/OR	If Event 2405 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

- References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MCRP 10-10E.9, MTTP for Chemical, Biological, Radiological, and Nuclear (CBRN) Decontamination Operations

CTRL-2410 4.0 1095 B, R, M (N) 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. Observe the kinematic properties for a track.
5. Given an ATO mission, hook that specific track.
6. Plot an aircraft working area using track options.
7. Given a friendly air track, determine the controlling unit for that track.
8. Conduct fidelity drills with another C2 interface unit.
9. Assume control of a track
10. Provide J28.2 free text to a Link 16 capable aircraft for:
 - a. Routing and SOF
 - b. Situation updates
 - c. Immediate requests
11. Pair a friendly track with its objective(s) via J series message.
12. Send a J12.0 message to capable aircraft.

Performance Standards. With the aid of reference, complete the listed requirements. Minor errors corrected by the Marine are acceptable.

Instructor

	If Event 2410 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	S/L	BI	DASC ASCO (7208)

Prerequisites

EVENTS						
	If 2410 Conducted In		If 2410 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	S/L				2800
AND	(N)	S/L				2803
AND	(N)	S/L				2811
AND	(N)	S/L				2812
AND	(N)	S/L				2817
AND	(N)	S/L				2818
AND	(N)	S/L				2820
AND	(N)	S/L				6255

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

CTRL-2415 4.0 730 B, R, M (N) L/S

Goal. Control FW or RW aircraft.

Requirement

Given a scenario, supporting documentation, conduct the following tasks.

1. Conduct an HD or TAD Crew Brief and Debrief.
2. Perform the DASC Control Method using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.

6. Maintain a complete and accurate log.
7. Pass/Receive immediate air support requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standards. 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

AND/OR	If Event 2415 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MAWTS-1 DASC TACSOP

CTRL-2420 6.0 1095 B, R, M (N) S/L

Goal. Manage deep air operations.

Requirement

Given a scenario, supporting documentation, conduct the following tasks.

1. Conduct kill box coordinator duties with the SCAR.
2. Receive and pass tasking to the SCAR and/or strikers.
3. Open/close the kill box or portions thereof.
4. Coordinate hot/cold fires with the FSCC within the kill box.
5. Send time sensitive tasking to the SCAR based on a prioritized target list (PTL).
6. Receive and forward Inflight/Pilot Reports (IFREP/PIREP).
7. Control DAS aircraft.
8. Coordinate aerial refueling operations.
9. Conduct handovers with adjacent and external agencies.
10. Integrate long-range surface fires with MAGTF and Joint aviation assets.

Performance Standards. 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

AND/OR	If Event 2420 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	S/L	BI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2420 Conducted In		If 2420 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	S/L				2090

References. 1. 1. MAWTS-1 DASC TACSOP
2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

3.9.6 DASC OIC (DOIC(2)) (DOIC(2))

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.

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).

DOIC-2300 80.0 * B (N) L/S

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.
3. Submit the scenario and DASC drill to the instructor.
4. Request required communications and support equipment.
5. Identify white cell requirements.
6. Utilize organic MACCS simulation capability.
7. Oversee setup of the DASC and white cell.
8. Ensure execution and evaluation of the scenario.
9. Compile After-Action items.

Performance Standards. Complete all the required items.

Instructor

AND/OR	If Event 2300 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2300 Conducted In		If 2300 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				6240

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCP)

3. 3. MCRP 3-0A, Unit Training Management (UTM) Guide

4. 4. MCRP 3-0B, How to Conduct Training

5. 5. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

6. 6. MAWTS_1 DASC TACSOP

DOIC-2305 1.5 730 B, R, M (N) L/S

Goal. Conduct DASC site selection.

Requirement

Given the reference, a Table of Equipment (T/E) and/or Equipment Density List (EDL) , Commanders 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 Communications.
2. Describe FSCC collocation/coordination requirements.
3. Identify composition of advanced party/RSOP team.
4. Identify DASC employment considerations including alternate sites.

Performance Standards. Brief the instructor and answer questions on the site selected.

Instructor

AND/OR	If Event 2305 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2305 Conducted In		If 2305 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6230
AND	(N)	L				6235

References. 1. 1. MAWTS-1 DASC TACSOP

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

DOIC-2310 1.5 * B (N) L/S

Goal. Describe DASC displacement operations.

Requirement

Given a tactical scenario:

1. Describe DASC displacement operations in support of MAGTF operations.
2. Describe the factors associated with DASC displacement operations.
3. Brief the plan for the DASC to displace and annotate identified issues of concern.

Performance Standards. Complete all the required items IAW the reference. Instructor will discuss each item with the trainee.

Instructor

AND/OR	If Event 2310 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2310 Conducted In		If 2310 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				6240

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCP)

3. 3. EWS, MAGTF Operations Ashore

DOIC-2315 **2.0** * **B** **(N)** **L/S**

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 air support requests and fire missions.
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 Standards. Complete all required items and brief the instructor.

Instructor

AND/OR	If Event 2315 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2315 Conducted In		If 2315 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				6240

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCPPE)

3. 3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

4. 4. MAWTS-1 DASC TACSOP

DOIC-2320 **2.0** * **B** **(N)** **L/S**

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.
3. Determine convoy order based on position occupation plan.
4. Ensure classified cargo, sensitive cargo, and hazardous material (HAZMAT) is properly loaded.
5. Establish bump plan for personnel, equipment, and classified material should vehicle/trailer become disabled.
6. Conduct Pre-Combat Inspections (PCI).

Performance Standards. Conduct all the items in accordance with the references.

26 Oct 22

Instructor

AND/OR	If Event 2320 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS					
AND/OR	If 2320 Conducted In		If 2320 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI
	(N)	L			
					6240

References. 1. 1. FM 4-01.011, Unit Movement Operations

2. 2. MCRP 4-11.3G, Unit Embarkation Handbook

3. 3. FORSCOM Form 285-R Vehicle Load Card

4. 4. MAWTS-1 DASC TACSOP

DOIC-2325 2.0 * B (N) L/SGoal. State the procedures and challenges of Phasing Control Ashore.Requirement

Given a tactical scenario:

1. Define phasing control ashore.
2. Explain each step of phasing control ashore.
3. Determine issues of concern.
4. Brief a plan to phase control ashore and annotate identified issues of concern.

Performance Standards. Complete all the required items. Instructor will discuss each item with the trainee.Instructor

AND/OR	If Event 2325 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS					
AND/OR	If 2325 Conducted In		If 2325 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI
	(N)	L			
					6240

References. 1. 1. JP 3-02, Joint Doctrine for Amphibious Operations

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

3. 3. MCWP 5-10, Marine Corps Planning Process (MCPPE)

4. 4. EWS - MAGTF Operations Ashore

3.9.7 Familiarization (FAM(2)) (FAM(2))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.

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.

FAM-2350 **1.0** * **B** **(N)** **L**

Goal. Observe a Tactical Air Control Party (TACP).

Requirement

While observing a TACP in a field environment:

1. Discuss the positions, equipment, and operations in relation to the DASC.

Performance Standards. Complete a tour of a TACP.

Instructor

	If Event 2350 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. JP 3-09.3, Joint Close Air Support

2. 2. MCTP 3-10F, Fire Support Coordination in the GCE

FAM-2355 **1.0** * **B** **(N)** **L**

Goal. Observe a TACC.

Requirement

While observing a TACC:

1. Discuss the positions, equipment and operations in relation to the DASC.

Performance Standards. Complete a tour of a TACC.

Instructor

	If Event 2355 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.2, Marine Tactical Air Command Center Handbook

FAM-2365 **1.0** * **B** **(N)** **L**

Goal. Observe a Fire Support Coordination Center (FSCC).

Requirement

While observing an FSCC in a field environment:

1. Discuss the positions, equipment, and operations in relation to the DASC.

Performance Standards. Complete a tour of a FSCC.

Instructor

	If Event 2365 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element

FAM-2370 **1.0** ***** **B** **(N)** **L**

Goal. Observe the Tactical Air Operations Center (TAOC) or an EW/C.

Requirement

While observing a TAOC or EW/C:

1. Discuss TAOC or EW/C positions, equipment, and operations.

Performance Standards. Complete a tour of a TAOC or an EW/C.

Instructor

AND/OR	If Event 2370 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.6, Tactical Air Operations Center Handbook

FAM-2375 **1.0** ***** **B** **(N)** **L**

Goal. Observe an Air Traffic Control Facility (ATCF) or an expeditionary ATCF.

Requirement

While observing an ATCF or an expeditionary ATCF:

1. Discuss the positions, equipment, and operations.

Performance Standards. Complete a tour of an ATCF or an expeditionary ATCF.

Instructor

AND/OR	If Event 2375 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.7, Marine Air Traffic Control Detachment Handbook

FAM-2380 **1.0** ***** **B** **(N)** **L**

Goal. Observe the configuration and operation of a LAAD Section or Team.

Requirement

While touring the various configurations of LAAD:

1. Discuss the various configurations of LAAD at the section or team level.

Performance Standards. Complete a tour of a LAAD Section.

Instructor

AND/OR	If Event 2380 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.9, Low Altitude Air Defense Battalion Handbook

3.9.8 Senior Air Director (SAD(2)) (SAD(2))

Purpose

To develop proficiency in crew and system management involved in direct air support operations.

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.

SAD-2460 1.0 * B (N) L/S

Goal. Execute the roles and responsibilities of a Senior Air Director.

Requirement

Ensure the management of and supervise the conduct of:

1. A Crew brief/debrief.
2. Maintenance of a log.
3. Crew members executing their duties.
4. Passage of information internally and externally.
5. Assigned communications assets.
6. Coordination with external agencies.
7. Supporting arms integration.
8. Assist the OIC in planning, deployment, and retrograde.

Performance Standards. Perform the requirement to a proficient level. Minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 2460 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2460 Conducted In		If 2460 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6230
AND	(N)	L/S				6235

References. 1. 1. MAWTS-1 DASC TACSOP

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

SAD-2465 4.0 1095 B, R, M (N) L/S

Goal. Match appropriate available aviation assets with requests.

Requirement

Given a tactical scenario, list of aircraft with ordnance loads, and immediate air support requests, complete the following:

1. Assign appropriate aircraft to each immediate air support request.
2. Explain rationale for pairing of aircraft with request to evaluator(s).

Performance Standards. All requests are assigned to an appropriate aircraft and verbal explanation provided

Instructor

AND/OR	If Event 2465 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2465 Conducted In		If 2465 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6230
AND	(N)	L				6235

References. 1. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. 2. MCWP 3-2, MAGTF Aviation Operations

3. 3. MCRP 3-20F.5, Direct Air Support Center Handbook

4. 4. MCRP 3-16.6A, TTP for Joint Application of Firepower

5. 5. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

SAD-2470 **1.0** * **B** **(N)** **L/S**

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 Standards. The instructor will verbally inform the trainee of a radio, TDL, and any data failures. Trainee will brief the instructor on the restoration priority.

Instructor

AND/OR	If Event 2470 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2470 Conducted In		If 2470 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6230
AND	(N)	L/S				6235

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

SAD-2475 **4.0** * **B** **(N)** **L/S**

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 Coordinating 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.
7. Joint Master Unit List (J MUL) / Unit Reference Number (URN) repository
8. Satellite Access Request (SAR) / Satellite Access Authorization (SAA)

Performance Standards. 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

AND/OR	If Event 2475 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 2475 Conducted In		If 2475 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6230
AND	(N)	L/S				6235

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

3.9.9 Tactical Data Link (TDL(2)) (TDL(2))

Purpose

To develop DASC experience in establishing and operating advanced datalinks.

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.

TDL-2800 1.0 * B (N) 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 Standards. With the aid of references, complete the required items IAW the reference. Minimal self-corrected errors allowed.

- References.
1. 1. MCWP 5-10, Marine Corps Planning Process
 2. 2. MCRP 3-30B.2, MAGTF Communications Systems
 3. 3. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)

TDL-2803	1.0	1095	B, R, M	(N)	G
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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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

- References.
1. 1. MCRP 1-10.1, Organization of Marine Corps Forces
 2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook
 3. 3. Approved Core METL applicable to the unit
 4. 4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-2807	2.0	*	B	(N)	G
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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. U.S. Army
 - a. Army Air and Missile Defense Command (AAMDC)
 - b. Terminal High Altitude Air Defense Battery (THAAD)
 - c. Air Defense Airspace Management (ADAM) Cell
 - d. Joint Tactical Ground Station (JTAGS)
 - e. Phased Array Tracking Radar to Intercept on Target (PATRIOT)
 - f. AH-64E Apache
2. U.S. Navy
 - a. E-2C/D Hawkeye
 - b. F/A-18C/E/F Hornet / Super Hornet
 - c. EA-18G Growler
 - d. Model 5 (CVN, LHD, LHA, LPD, CG, DDG)
 - e. Model 4 (CG, FFG, LCC)
 - f. P-3 Orion / P-8A Poseidon
 - g. MH-60 R/S Seahawk

- h. F-35C Lightning
- 3. U.S. Air Force
 - a. Control and Reporting Center (CRC)
 - b. Air Support Operations Center (ASOC)
 - c. E-3 AWACS
 - d. F-15A-E Eagle / Strike Eagle
 - e. E-8C JSTARS
 - f. RC-135S/U/V&W Cobra Ball / Combat Sent / Rivet Joint
 - g. EC-130E/H Senior Scout / Compass Call
 - h. F-16CM Fighting Falcon
 - i. F-22A Raptor
 - j. KC-135R ROBE
 - k. MQ-1 Predator
 - l. MQ-9 Reaper
 - m. RQ-4 Global Hawk
 - n. Battlefield Airborne Communications Node (BACN)
 - o. AC-130 Spectre Gunship
 - p. B-2A Spirit
 - q. B-1B Lancer
 - r. F-35A Lightning
- 4. U.S. Marine Corps
 - a. F/A-18A/C/D Hornet
 - b. RQ-21A Blackjack
 - c. MV-22B Osprey
 - d. AV-8B Harrier
 - e. F-35B Lightning

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

- References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. NAVSEA Tactical Data Systems Capabilities and Limitations (SIPR website)
3. 3. Joint Multi-TDL School Training Guides

TDL-2808 **1.0** ***** **B** **(N)** **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. Describe track management.

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

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

TDL-2809	2.0	*	B	(N)	G
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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. Define the Extended Interface.
6. Identify the purpose of the Joint Range Extension Application Protocol (JREAP).
7. 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).
8. Describe the delegation of responsibilities for the conduct of the Multi-TDL operations at the Joint Task Force (JTF) level and below.
9. State the two Interface Control Officer (ICO) execution functions.
10. State the responsibilities of the Link 16 Manager.
11. State the responsibilities of the Link 11/11B Manager.
12. State the responsibilities of the Track Data Coordinator (TDC).

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

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

2. 2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. 4. MIL-STD-3011, JREAP Interface Standard

TDL-2810	2.0	*	B	(N)	G
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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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

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

TDL-2811	2.0	*	B	(N)	G
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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.
 - 3. Identify five track environments.
 - 4. Identify the six standard track identifications.
 - 5. Define Track Quality.
 - 6. Define real-time track reports.
 - 7. Identify how non real-time tracks are distinguished from real-time tracks.
 - 8. Identify when non-real time tracks are used.
 - 9. Define Reporting Responsibility (R2).
 - 10. Define a common track.
 - 11. Define correlation.
 - 12. Define automatic correlation.
 - 13. Describe track number negotiations during correlation.
 - 14. Define Manual Correlation.
 - 15. Explain de-correlation.
 - 16. Define Dual Designation.

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

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

3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2812 **2.0** * **B** **(N)** **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.
10. State the purpose of NPG 8 and list and describe the corresponding message sets
11. State the purpose of NPG 9 and list and describe the corresponding message sets
12. State the relationship between the J9.0 and the J12.0
13. State the OPTASKLINK requirements for using NPG 9
14. Describe the handshake process and corresponding J series messages that are used while conducting Air Control (NPG 9)

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

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

2. 2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

3. 3. Joint Multi-TDL School Training Guides

TDL-2814 **2.0** * **B** **(N)** **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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

- References.
- 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
 - 2. 2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
 - 3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
 - 4. 4. Guide to the USMTF User Formats - OPERATIONAL TASKING DATA LINKS
 - 5. 5. JRE Version 5.3.x Software User Guide
 - 6. 6. ADSI Version 14.1.1 Software Users Guide
 - 7. 7. Joint Multi-TDL School Training Guides

TDL-2817	3.0	*	B	(N)	G
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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.
38. Time Slot Reuse.

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

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2818	3.0	*	B	(N)	G
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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.
17. State the purpose of the pulse deconfliction server.

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

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

3. 3. CJCSI 6232.01_, Link 16 Spectrum Deconfliction

TDL-2819 **2.0** ***** **B** **(N)** **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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

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

TDL-2820 **2.0** ***** **B** **(N)** **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. FORCFLTR.
 - 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 Standards. Without the aid of reference, state (verbally or written) the required items.

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures

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

TDL-2821	1.0	*	B	(N)	G
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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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

- References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B
3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
4. 4. MCTP 10-10.B, MTPP for an Integrated Air Defense System

TDL-2822 **1.0** ***** **B** **(N)** **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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

- References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MCRP 3-20F.2, TACC Handbook

TDL-2823 **1.0** ***** **B** **(N)** **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. Identify fires related VMF messages.
12. State the purpose of VMF multi-cast groups.
13. K Series and J Series data forwarding.

Performance Standards. Without the aid of reference, state (verbally or written) the required items.

References. 1. 1. CJCSM 3115.01, Joint Data Network Operations

2. 2. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
3. 3. MIL-STD-188-220, Digital Message Transfer Device Subsystems
4. 4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard
5. 5. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
6. 6. MIL-STD-6017, VMF Interface Standard
7. 7. MIL-STD-6020, Data Forwarding Between TDLs

3.9.10 Command & Control System (C2SYS(2)) (C2SYS(2))

Purpose

To develop proficiency in utilizing the command and control systems used in DASC operations.

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.

C2SYS-2900	0.5	*	B	(N)	G
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Goal. Demonstrate proficiency logging on a TBMCS client.

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Login to a client.
2. Change password.
3. Access CAOC Central.
4. Select or de-select the warnings that are displayed for login or application access.

Performance Standards. With the aid of references, complete the required items IAW the reference.

References. 1. 1. TBMCS User's Manual

C2SYS-2910	2.0	*	B	(N)	G
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Goal. Demonstrate proficiency with the TBMCS Execution Status and Monitoring (ESTAT) tool.

Requirement

Given an operational TBMCS and training materials, update data on an Air Battle Plan (ABP) in the Air Operations Database (AODB), to include:

1. In graphical and tabular style, open multiple, independently configurable, filterable, sortable and nameable displays of the retrieved data.
2. Save and restore customizations such as column order, visible columns, filter definitions and custom status color mappings.
3. Plot air and missile routes.
4. Plot operations data such as airspace, targets, bases, and unit locations.
5. Update the Current Execution Status of any Tasked Air or Missile Mission in the Selected ABP.
6. Review previously archived versions of a mission including its currently tasked (replanned) version.
7. Use ESTAT to update the following mission information:
 - a. ABP State.
 - b. Air Mission Status.
 - c. Estimated and Actual Mission Event Times.
 - d. Air Mission Results.
 - e. Capability to Group Missions.
 - f. Number of Canceled and/or Added Aircraft.
 - g. Actual Mission Configuration/Standard Configuration Load (SCL).
 - h. Comments.
 - i. Create, Edit, and Delete Mission Deviations.
 - j. Ground Alert Response Time.
 - k. Residual Mission Code.
 - l. Create, Edit, and Delete Wide Area Geographic (WAG) Activities.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-2911	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency with TBMCS Web Air Request Processor (WARP).

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Initiate WARP.
2. Access/Exit the WARP Control Panel.
3. Set Timer Alerts.
4. Activate the WARP Status Display Board.
5. Create one immediate and one replanned request for each of the following:
 - a. JTAR.
 - b. ASR.
 - c. CASEVAC.
6. Show Table Summaries.
7. Set the Auto Update Frequency.
8. View an Auto Update Log.
9. Set and Show Local Time.
10. Use WARP to perform the following tasks:
 - a. Show Targets on a Map.
 - b. View a Transaction Log.
 - c. Show All Requests.
 - d. Sort Order.

- e. View request details.
- f. Update status of an air request.
- g. Assign/Unassign Requests.
- h. Edit Requests.
- i. Edit BDA.
- j. Highlight a Target on the Map.
- k. Query Missions.
- l. Hide Selected Missions.
- m. Show All Missions.
- 11. Submit a WARP BDA Report.
- 12. Delete Requests.
- 13. Exit WARP.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-2920 4.0 * B (N) G

Goal. Demonstrate proficiency operating Advanced Field Artillery Tactical Data System (AFATDS).

Requirement

Given an operational AFATDS workstation, a fully functional network and Common Tactical Picture (CTP) architecture, and supporting operational documents, perform the following:

- 1. Demonstrate familiarity with operator controls and indicators.
- 2. Login/Logout of workstation.
- 3. Use disk utilities.
- 4. Transfer & receive plan or current situation.
- 5. Navigate AFATDS functions menu.
- 6. Configure communications.
- 7. Conduct map management operations.
- 8. Manipulate friendly unit information.
- 9. Setup data distribution functions.
- 10. Set guidances:
 - a. View/edit target guidances.
 - b. Establish immediate mission routing.
 - c. Set system preferences and restriction guidances.
 - d. Set air support guidances.
- 11. Use geometries functions.
- 12. Use mission processing functions (target processing/attack analysis).
- 13. Conduct coordination checks (FSCM & Clearance of fires).
- 14. Set mission processing user preferences.
- 15. Initiate fire mission.
- 16. Monitor active missions.
- 17. View scheduling queues.
- 18. Conduct mission monitor actions:
 - a. Coordination events.
 - b. Intervention events.
 - c. Denial events.
 - d. Data required events.
- 19. Use Common Operational Picture (COP) functions.
- 20. Use Fire Support planning functions:
 - a. Friendly situation.

- b. Enemy situation.
- c. Fire Support Execution Matrix (FSEM).
- d. Mission assignments.
- e. Air sorties allocated.
- 21. Use target management functions.
- 22. View/print fire plan and schedule of fires.
- 23. Review AFATDS air support capabilities.
- 24. Use trigger events.
- 25. Use AFATDS messaging functions.
- 26. Prepare the AFATDS to conduct Air Operations.
- 27. Establish air operations specific communications.
- 28. Conduct ATO/ACO procedures.
- 29. Create & process immediate air missions (OAS).
- 30. Create & process non-fires missions:
 - a. Reconnaissance.
 - b. Electronic warfare.
 - c. Air drop.
 - d. Assault support.
 - e. Medical evacuation.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

- References.
- 1. 1. TM 11-7025-OR/1 - /3 AFATDS Operator's Manual Volumes 1-3
 - 2. 2. TB 11-7025-354-10-4 Air Operations for AFATDS
 - 3. 3. TB 11-7025-297-10 AFATDS Operators Notebook
 - 4. 4. TECOE:<http://www.29palms.marines.mil/Staff/G3OperationsandTraining/MISTC29.aspx>

C2SYS-2923 1.5 365 B, R, M (N) L/S

Goal. Demonstrate proficiency with TDF Webportal tool

Requirement

Given a workstation (disadvantaged user), an active network, and an operational AC2S:

- 1. Describe Tactical Display Framework Portal.
- 2. Describe configuration requirements.
- 3. Request a username, password, IP address from the AC2S system administrator.
- 4. Login into TDF Webportal utilizing a browser.
- 5. Add an additional portlet.
- 6. Remove a portlet.
- 7. Describe the following portlets:
 - a. Map View
 - b. Track List
 - c. Shared Tracks.
 - d. Rollover
 - e. Primary
 - f. Secondary
 - g. Bearing/Range Lines
 - h. Chat
 - i. Alerts
- 8. Create a collaboration window
- 9. Disable/enable the automatic display of track history.

10. Change the symbol set.
11. Demonstrate a persistent bearing/range line between two objects.
12. Configure track filters.
13. Demonstrate the dimming and opacity capabilities.
14. View track details.
15. Describe the map view preferences
 - a. Map
 - b. Telestrator Options
 - c. Overlays Options
 - d. Track Preferences
 - e. Save View Options
 - f. Load View Options
 - g. Manage View Options
16. Draw and remove freeform shapes on the map and share them with your network.
17. Add and remove overlay points.

Performance Standards. With the aid of reference, complete the listed requirements. Minor errors corrected by the Marine are acceptable

Instructor

AND/OR	If Event 2923 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

References. 1. 1. TDF Portal User Manual

2. 2. TDF Portal Administrator Guide

C2SYS-2926 4.0 365 B, R, M (N) G

Goal. Demonstrate proficiency operating Basic Battle Management functions on Processing, Display and Sensor Software (PDSS) display.

Requirement

Given an operational Air Command and Control System (AC2S), perform the following:

1. Identify and describe the major components of the PDSS display
2. Change the symbology presentation
3. Create a new Collaboration group and demonstrate the following:
 - a. Set the Preferred Collaboration to the group of your choosing
 - b. Open a new chat window or tab
 - c. Insert a pre-defined Text Replacement entry into chat
 - d. Recognize and interact with hyperlinked text in chat
 - e. Move a chat session out of the Dashboard area
 - f. Add a new XMPP chat account
 - g. Set up multiple chat windows as desired, and save and recall their layout
4. Create a new Telestrator drawing or scribble
5. Add a track to the Shared Track List for the “Shared” collaboration group
6. Create a circular overlay using the Control Bar shortcut buttons
7. Create an extruded polygon overlay
8. Edit an existing overlay using both Edit and Open in Overlays methods
9. Share an overlay with all other workstations
10. Use the Shape List to set the local ADW status for a specific shape
11. Create a manual air track and land point, with an Identity and Platform of your choosing
12. Preserve a track

13. Use the Swap Track function to exchange track data between two tracks
14. Use the Reposition Track pointer to give a track a new heading and speed as well as place a track in a new location
15. Turn on Track History for a specific track; use rollovers to obtain history data for the first point stored on the track
16. Explain and show the different ways to edit track identity, platform, and activity
17. Set and clear an MIL-STD-2525B Battle Dimension Code on a track
18. Locate a track with a Track Drop Indicator and explain this function
19. Create/remove a Constrained Shape on a track
20. Demonstrate the ability to use the Primary and Secondary Hook functions
21. Use the Set Reference function to designate a Reference Point

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

Instructor

AND/OR	If Event 2926 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. 1. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

2. 2. CAC2S Display User Manual

C2SYS-2928 4.0 * B (N) G

Goal. Demonstrate proficiency operating Air Control functions on Processing, Display and Sensor Software (PDSS) display.

Requirement

Given an operational Air Command and Control System (AC2S), perform the following:

1. Load an ATO, and parse missions by either Controlling unit, or Tasked Unit
2. Set the name of the currently loaded ATO
3. Edit ATO String Mappings for both Aircraft and Missions
4. Manually associate a track to an existing ATO mission
5. Manually create a new ATO mission
6. Create an ATO filter for a given aircraft type
7. Import a new ACO; share specific ACMs in the Shared Collaboration group
8. Create a local filter for an ACO by both altitude band and by bounds
9. Create a J10.6 Pairing Line between two tracks using both the hook and right-click and double hook methods
10. Handover a track to another C2JU
11. Create a mission assignment to a non-C2JU
12. Create a flight path and assign a non-C2JU to that path
13. Create a paring line between an non-TDL capable track and a reference point
14. Broadcast current weather conditions over a given target area via Link 16
15. Issue a Request for a JTAR using the Air Request Pointers; edit the request
16. Issue a Request for an ASR using the Request Form buttons; edit the request
17. Insert the current date/time into a request time field
18. Acquire a position from the view while editing a request coordinate field
19. Edit an existing Air Request from the Request List
20. Locate a newly created Request on the TacSit
21. Offset/Center on a particular Request from a Request List
22. Archive an existing Request

23. Filter the Archive Request List by a specific request type
24. Using a Control Bar Request Toggle button, display only Requests with a status of Complete

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

Instructor

AND/OR	If Event 2928 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASCO (7208)

References. 1. 1. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

2. 2. CAC2S Display User Manual

C2SYS-2940 **1.0** * **B** **(N)** **G**

Goal. Demonstrate proficiency utilizing tactical chat.

Requirement

Given operational data architecture and a tactical chat application perform the following:

1. Initiate the tactical chat application.
2. Connect to a chat server.
3. Set up user preference.
4. Access channels on the tactical chat server.
5. Know and understand terms specific to tactical chat.
6. Know and understand the basic limitations and weaknesses of tactical chat.
7. Know and understand the standard tactical chat terminology and abbreviations.
8. Know and understand proper acknowledgement procedures of tactical chat communications.
9. Know and understand the basic troubleshooting steps of tactical chat.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. MCRP 3-40.2B, Tactical Chat MTTP

2. 2. Local SOP

3.10 MISSION PHASE

Purpose. Mission Phase 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.

General.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:
 - a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

3. Prior to achieving mission skills proficiency as a DASC Helicopter Director or Tactical Air Director, the trainee shall control at least (1) live aircraft.

MISSION PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
HD(3)	3.11.1	3-67
TAD(3)	3.11.2	3-69
SAD(3)	3.11.3	3-72
ASLT(3)	3.11.4	3-77
ASE(3)	3.11.5	3-78
DOIC(3)	3.11.6	3-79
CTRL(3)	3.11.7	3-80

3.11 MISSION STAGES

3.11.1 Helicopter Director (HD(3)) (HD(3))

Purpose

To develop proficiency in procedurally controlling manned and unmanned aircraft.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

3. Prior to achieving mission skills proficiency as a DASC Helicopter Director, the trainee shall control at least (1) live aircraft.

Prerequisite. None.

Crew Requirements. A crew supporting direct air support functions.

HD-3000 10.0 * B (N) L/S

Goal. Control RW aircraft.

Requirement

Given a scenario, supporting documentation, and an agency supporting direct air support operations, conduct the duties of a HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Perform the DASC Control Method using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Pass/Receive immediate air support requests.
7. Demonstrate proper processing of all received information and routing and passing information within the system
8. Maintain an accurate RIO log

Performance Standards. 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.

26 Oct 22

Instructor

AND/OR	If Event 3000 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS					
AND/OR	If 3000 Conducted In		If 3000 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI
	(N)	L/S			
AND	(N)	L/S			
AND	(N)	L/S			

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

HD-3005 **10.0 1095 B, R, M** **(N) L/S**

Goal. Control RW aircraft IAW the DASC Qualification Standard.

Requirement

Given a scenario, the Qualification Standard (12 ATO Missions, 4 Immediate Air Support Requests, and 3 Fire Missions per hour), supporting documentation, and an agency supporting direct air support operations, conduct the duties of a HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Perform the DASC Control Method using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Pass/Receive immediate air support requests.
7. Demonstrate proper processing of all received information and routing and passing information within the system.
8. Maintain an accurate RIO log

Performance Standards. 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

AND/OR	If Event 3005 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS					
AND/OR	If 3005 Conducted In		If 3005 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI
	(N)	L/S			
AND	(N)	L/S			
AND	(N)	L/S			
AND	(N)	L/S			
AND	(N)	L/S			
AND	(N)	L/S			
AND	(N)	L/S			

EVENTS						
AND/OR	If 3005 Conducted In		If 3005 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				2090
AND	(N)	L/S				2100
AND	(N)	L/S				2130
AND	(N)	L/S				2135
AND	(N)	L/S				2155
AND	(N)	L/S				2240
AND	(N)	L/S				2405
AND	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2807
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2810
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2814
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2819
AND	(N)	L/S				2820
AND	(N)	L/S				2821
AND	(N)	L/S				2823
AND	(N)	L/S				2923
AND	(N)	L/S				2926
AND	(N)	L/S				2928
AND	(N)	L/S				2940
AND	(N)	L/S				3000
AND	(N)	L/S				6255
AND	(N)	L/S				8040
AND	(N)	L/S				8060

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

3.11.2 Tactical Air Director (TAD(3)) (TAD(3))

Purpose

To develop proficiency in procedurally controlling manned and unmanned aircraft.

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. NAVMC 3500.120B 12 NOV 2019 3-60

2. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

3. Prior to achieving mission skills proficiency as a DASC Tactical Air Director, the trainee shall control at least (1) live aircraft.

26 Oct 22

Prerequisite. None.Crew Requirements. A crew supporting direct air support functions.**TAD-3100** **10.0** * **B** **(N)** **L/S**Goal. Control FW aircraft.Requirement

Given a scenario, supporting documentation, and an agency supporting direct air support operations, conduct the duties of a TAD to include:

1. Conduct a TAD Crew Brief and Debrief.
2. Perform the DASC Control Method using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Pass/Receive immediate air support requests.
7. Demonstrate proper processing of all received information and routing and passing information within the system.
8. Maintain an accurate RIO log

Performance Standards. 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

	If Event 3100 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
	If 3100 Conducted In		If 3100 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6255
AND	(N)	L/S				8000
AND	(N)	L/S				8020

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

TAD-3105 **10.0** 1095 **B, R, M** **(N)** **L/S**Goal. Control FW aircraft IAW the DASC Qualification Standard.Requirement

Given a scenario, the Qualification Standard (12 ATO Missions, 4 Immediate Air Support Requests, and 3 Fire Missions per hour), supporting documentation, and an agency supporting direct air support operations conduct the duties of a TAD to include:

1. Conduct a TAD Crew Brief and Debrief.
2. Perform the DASC Control Method using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Pass/Receive immediate air support requests.

7. Demonstrate proper processing of all received information and routing and passing information within the system.
8. Maintain an accurate RIO log

Performance Standards. 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

AND/OR	If Event 3105 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 3105 Conducted In		If 3105 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L/S				2060
AND	(N)	L/S				2065
AND	(N)	L/S				2075
AND	(N)	L/S				2080
AND	(N)	L/S				2085
AND	(N)	L/S				2090
AND	(N)	L/S				2100
AND	(N)	L/S				2130
AND	(N)	L/S				2135
AND	(N)	L/S				2155
AND	(N)	L/S				2240
AND	(N)	L/S				2405
AND	(N)	L/S				2410
AND	(N)	L/S				2420
AND	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2807
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2810
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2814
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2819
AND	(N)	L/S				2820
AND	(N)	L/S				2821
AND	(N)	L/S				2823
AND	(N)	L/S				2923
AND	(N)	L/S				2926
AND	(N)	L/S				2928
AND	(N)	L/S				2940
AND	(N)	L/S				3100
AND	(N)	L/S				6255
AND	(N)	L/S				8040

EVENTS						
	If 3105 Conducted In		If 3105 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				8060

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MAWTS-1 DASC TACSOP

3.11.3 Senior Air Director (SAD(3)) (SAD(3))

Purpose

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 Senior Air Director.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:
 - a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisite. None.

Crew Requirement. A DASC crew.

SAD-3150 1.0 * B (N) L/S

Goal. Coordinate deep fires.

Requirement

While coordinating the employment of deep fires (air-to-surface or surface to surface).

1. Coordinate with the agencies involved in deep fires.
2. Coordinate FSCMs and ACMs used in deep fires.

Performance Standards. Coordinate deep fires in a timely manner utilizing the proper agencies, FSCM, and ACMs.

Instructor

	If Event 3150 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASCO (7208)

Prerequisites

EVENTS						
	If 3150 Conducted In		If 3150 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2460
AND	(N)	L/S				2465
AND	(N)	L/S				2470
AND	(N)	L/S				2475
AND	(N)	L/S				6230
AND	(N)	L/S				6235

References. 1. 1. MCRP 3-16.6A, TTP for Joint Application of Firepower

2. 2. MCRP 3-20.1, MTTP for Theater Air-Ground System
3. 3. MCRP 3-31.4, MTTP for Kill Box Employment
4. 4. MCRP 3-20D.1 MTTP SCAR
5. 5. MCTP 3-10F, Fire Support Coordination in the GCE
6. 6. MCRP 3-10F.2, Supporting Arms, Observer, Spotter, and Controller
7. 7. MCRP 3-20D.2, Deep Air Support
8. 8. FSCC Techniques and Procedures Smartpack (TTECG Jan 00)
9. 9. JP 2-03 Geospatial Intelligence
10. 10. MAWTS-1 DASC TACSOP

SAD-3200 **10.0** * **B** **(N)** **L/S**

Goal. Perform as a SAD.

Requirement

Given a scenario, supporting documentation, an agency supporting direct air support operations, conduct the following tasks while managing a crew:

1. Conduct crew brief/debrief.
2. Ensure each crewmember is executing their duties.
3. Match available aviation assets with requests.
4. Pass information to crewmembers.
5. Manage MAGTF information systems.
6. Manage assigned radio nets.
7. Coordinate with external agencies.
8. Coordinate supporting arms integration.
9. Assist OIC in planning, deployment, and retrograde of the DASC/agency.

Performance Standards. 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

AND/OR	If Event 3200 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 3200 Conducted In		If 3200 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2460
AND	(N)	L/S				2465
AND	(N)	L/S				2470
AND	(N)	L/S				2475
AND	(N)	L/S				6230
AND	(N)	L/S				6235

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

SAD-3205 10.0 1095 B, R, M (N) L/S

Goal. Perform as an SAD IAW the DASC Qualification Standard.

Requirement

Given a scenario, the Qualification Standard (12 ATO Missions, 4 Immediate Air Support Requests, and 3 Fire Missions per hour), supporting documentation, and an agency supporting direct air support ops, conduct the following tasks while managing a crew:

1. Conduct crew brief/debrief.
2. Ensure each crewmember is executing their duties.
3. Match available aviation assets with requests.
4. Pass information to crewmembers.
5. Manage MAGTF information systems.
6. Manage assigned radio nets.
7. Coordinate with external agencies.
8. Coordinate supporting arms integration.
9. Assist OIC in planning, deployment, and retrograde of the DASC.

Performance Standards. 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

	If Event 3205 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
	If 3205 Conducted In		If 3205 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				3300
OR	(N)	L/S				3350
AND	(N)	L/S				2135
AND	(N)	L				2350
AND	(N)	L				2355
AND	(N)	L				2365
AND	(N)	L				2370
AND	(N)	L				2375
AND	(N)	L				2380
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2814
AND	(N)	L/S				2819
AND	(N)	L/S				2821
AND	(N)	L/S				2823
AND	(N)	L/S				2900
AND	(N)	L/S				2910
AND	(N)	L/S				2911
AND	(N)	L/S				2920
AND	(N)	L/S				3150
AND	(N)	L/S				3200
AND	(N)	L/S				3225

EVENTS						
	If 3205 Conducted In		If 3205 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				3235
AND	(N)	L/S				3455
AND	(N)	L/S				4921
AND	(N)	L/S				6230
AND	(N)	L/S				6235
AND	(N)	L/S				8080

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

SAD-3225 **4.0** ***** **B** **(N)** **L/S**

Goal. Manage a DASC extension.

Requirement

Given the references, supporting documents, a live or simulated DASC/direct air support agency, 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 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 Standards. Perform the required items. The trainee should utilize the extension so that it is an asset to the MACCS.

Instructor

	If Event 3225 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASCO (7208)

Prerequisites

EVENTS						
	If 3225 Conducted In		If 3225 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2205
AND	(N)	L/S				2215
AND	(N)	L/S				2460
AND	(N)	L/S				2465
AND	(N)	L/S				2470
AND	(N)	L/S				2475
AND	(N)	L/S				6230
AND	(N)	L/S				6235

References. 1. 1. MCTP 3-10F, Fire Support Coordination in the GCE

2. 2. MCTP 3-20F, Control of Aircraft and Missiles

3. 3. MCRP 3-20F.5, Direct Air Support Center Handbook

4. 4. MAWTS-1 DASC TACSOP

SAD-3235 **4.0** * **B** **(N)** **L/S**

Goal. Coordinate airspace for MLRS or HIMARS weapon systems.

Requirement

In accordance with the references or theater SOP:

1. Coordinate airspace internally to the DASC, and externally, for the employment of MLRS or HIMARS.

Performance Standards. Coordinate the airspace in a timely manner, ensuring timeliness of fire support and safety of flight for aircraft under DASC control.

Instructor

AND/OR	If Event 3235 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 3235 Conducted In		If 3235 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2460
AND	(N)	L/S				2465
AND	(N)	L/S				2470
AND	(N)	L/S				2475
AND	(N)	L/S				6230
AND	(N)	L/S				6235

- References. 1. 1. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element
2. 2. MCWP 3-16.1C, MLRS Operations
3. 3. MCTP 3-20F, Control of Aircraft and Missiles
4. 4. MCRP 3-20F.5, Direct Air Support Center Handbook
5. 5. MAWTS-1 DASC TACSOP

SAD-3455 **4.0** * **B** **(N)** **L/S**

Goal. Conduct the duties of Senior Air Director (SAD) during echelon operations and passage of control.

Requirement

Given the references and the DASC:

1. Pass or receive control.

Performance Standards. 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

AND/OR	If Event 3455 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 3455 Conducted In		If 3455 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2460
AND	(N)	L/S				2465
AND	(N)	L/S				2470
AND	(N)	L/S				2475
AND	(N)	L/S				6230
AND	(N)	L/S				6235

References. 1. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. 2. JP 3-09, Joint Fire Support

3. 3. MCDP 3, Expeditionary Operations

4. 4. MCWP 3-1, Ground Combat Operations

5. 5. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element

6. 6. MCRP 3-20F.5, Direct Air Support Center Handbook

7. 7. MCRP 3-30.1, Radio Operations

8. 8. MCRP 5-12C, Marine Corps Supplement to DOD dictionary of military and associated terms

9. 9. MAWTS-1 DASC TACSOP

3.11.4 Air Support Liaison Team (ASLT(3)) (ASLT(3))

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.

Admin Notes

Crew Requirement. An ASLT.

ASLT-3300 4.0 1095 B, R, M (N) 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, liaison with a supported unit. 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 Standards. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee.

Instructor

AND/OR	If Event 3300 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 3300 Conducted In		If 3300 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2100
AND	(N)	L/S				2130
AND	(N)	L/S				2200
AND	(N)	L/S				2205
AND	(N)	L/S				2215
AND	(N)	L/S				2240
AND	(N)	L/S				2923
AND	(N)	L/S				6255
AND	(N)	L/S				8000
AND	(N)	L/S				8020
AND	(N)	L/S				8040
AND	(N)	L/S				8060

References. 1. 1. MCDP 1-0, Operations

2. 2. MCTP 3-10F, Fire Support Coordination in the GCE

3. 3. MCRP 3-10F.2, Supporting Arms, Observer, Spotter, and Controller

4. 4. MCRP 3-20F.5, Direct Air Support Center Handbook

5. 5. MAWTS-1 DASC TACSOP

3.11.5 Air Support Element (ASE(3)) (ASE(3))

Purpose

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.

Admin Notes

Prior to achieving a qualification as an ASE OIC, the trainee shall be qualified as either a TAD or HD.

Crew Requirement. An ASE

ASE-3350 **4.0 1095 B, R, M** **(N) L/S**

Goal. Perform as an ASE OIC.

Requirement

Given a scenario, supporting documentation, and an Extension, perform the following:

1. Conduct Problem Framing.
2. Extract critical information from OPORDs and ConOps.
3. Extract critical information from Communications plan, ACEOI & Guard Chart, and Comm Connectivity Diagram.
4. Coordinate with external agencies.
5. Conduct embarkation, and retrograde of personnel and equipment.
6. Supervise ASE operations.
7. Brief the instructor on ASE employment plan.

Performance Standards. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee.

Instructor

AND/OR	If Event 3350 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 3350 Conducted In		If 3350 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2100
AND	(N)	L/S				2130
AND	(N)	L/S				2135
AND	(N)	L/S				2200
AND	(N)	L/S				2205
AND	(N)	L/S				2215
AND	(N)	L/S				2240
AND	(N)	L/S				2923
AND	(N)	L/S				6255
AND	(N)	L/S				8000
AND	(N)	L/S				8020
AND	(N)	L/S				8040
AND	(N)	L/S				8060

References. 1. 1. JP 3-02, Amphibious Operations

2. 2. MCDP 1-0, Operations

3. 3. MCTP 3-10F, Fire Support Coordination in the GCE

4. 4. MCRP 3-10F.2, Supporting Arms, Observer, Spotter, and Controller

5. 5. MCTP 3-20F, Control of Aircraft and Missiles

6. 6. MCRP 3-20F.5, Direct Air Support Center Handbook

7. 7. MCTP 3-31A, Supporting Arms Coordination in Amphibious Operations

8. 8. MAWTS-1 DASC TACSOP

3.11.6 DASC OIC (DOIC(3)) (DOIC(3))

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.

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. None.

Crew Requirement. Core skill proficient Air Support Liaison Team (ASLT) and DASC (multiple DASC Crews).

DOIC-3400 120.0 1095 B, R, M (N) L

Goal. Conduct the duties of a DASC OIC during a field deployment/exercise.

Requirement

Given a Warning Order, Deployment Order, a T/O and T/E, and other planning documents plan for and execute DASC deployment of at least five (5) days in length. Conduct planning and execution to include the following items:

1. Conduct Problem Framing.
2. Extract critical information from OPORDs and Concept of Operations.
3. Coordinate logistics/personnel and equipment requirements.
4. Site selection/survey.
5. Review Communications plan, ACEOI & Guard Chart.
6. Identify:
 - a. Training Objectives.
 - b. Personnel Roster.
 - c. Equipment Density List/Bill of Materials (BOM) Request.
 - d. DASC Information Exchange requirements and communication connectivity.
7. Coordinate with external agencies.
8. Final Confirmation Brief/Operations Brief.
9. Supervise gear/equipment inspection and embarkation.
10. Maintain accountability of personnel.
11. Physical security of classified areas.
12. Supervise training of DASC personnel.
13. Compile after-action items.

Performance Standards. Complete all requirements.

Instructor

AND/OR	If Event 3400 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 3400 Conducted In		If 3400 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				2300
AND	(N)	L				2305
AND	(N)	L				2310
AND	(N)	L				2315
AND	(N)	L				2320
AND	(N)	L				2325
AND	(N)	L				6240

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCPPE)

3. 3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

4. 4. MCRP 3-0A, Unit Training Management (UTM) Guide

5. 5. MCRP 3-0B, How to Conduct Training

6. 6. MAWTS-1 DASC TACSOP

3.11.7 Controller (CTRL(3)) (CTRL(3))

Purpose

To develop proficiency in procedurally controlling manned and unmanned aircraft.

Admin Notes

1. 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 Controller.

Prerequisite. None.

Crew Requirements. A core skill proficient crew supporting direct air support functions.

CTRL-3500 12.0 1095 B, R, M (N) L/S

Goal. Control FW or RW aircraft.

Requirement

Given a scenario, supporting documentation, conduct the following tasks.

1. Conduct an HD or TAD Crew Brief and Debrief.
2. Perform the DASC Control Method using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.
6. Maintain a complete and accurate log.
7. Pass/Receive immediate air support requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standards. 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

AND/OR	If Event 3500 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS					
AND/OR	If 3500 Conducted In		If 3500 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	T&R CODE
	(N)	L/S			2415

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

3.12 CORE PLUS PHASE

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.

General.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of

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individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

- a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

CORE PLUS PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ASE(4)	3.13.1	3-82
ACAD (4)	3.13.2	3-83
FAM(4)	3.13.3	3-84

3.13 CORE PLUS STAGES

3.13.1 Air Support Element (ASE(4)) (ASE(4))

Purpose

To develop proficiency in the art of integrating the ASE into amphibious operations.

ASE-4100 4.0 1095 B, R, M (N) L/S

Goal. Perform ASE operations during an amphibious operation.

Requirement

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. Brief GCE scheme of maneuver and its impacts on Air Support.
4. Describe impacts on FSCM/ACM changes on Air Support Operations.
5. Utilize primary, secondary, and tertiary means of communication.
6. Describe 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 Standards. Perform the requirement items. This liaison can also take place in the Supporting Arms Coordination Center, Landing Force Operations Center. Trainee can show understanding of requirements through execution or explanation to the instructor.

Instructor

AND/OR	If Event 4100 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 4100 Conducted In		If 4100 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2200
AND	(N)	L/S				2205
AND	(N)	L/S				2215

References. 1. 1. JP 3-02, Amphibious Operations

2. 2. MCDP 1-0, Operations

3. 3. MCTP 3-10F, Fire Support Coordination in the GCE
4. 4. MCRP 3-10F.2, Supporting Arms, Observer, Spotter, and Controller
5. 5. MCTP 3-31A, Supporting Arms Coordination in Amphibious Operations
6. 6. MCTP 3-20F, Control of Aircraft and Missiles
7. 7. MCRP 3-20F.5, Direct Air Support Center Handbook

3.13.2 Academics (ACAD(4)) (ACAD (4))

ACAD -4255 **1.0** * **B** **(N)** **G**

Goal. Describe Naval Composite Warfare

Requirement

Perform the following:

1. Define Composite Warfare Commander (CWC) Doctrine
 - a. Collaborative Planning
 - b. Decentralized Control and Execution
 - c. Command by Negation
2. Define CWC structure and describe the following
 - a. Officer in Tactical Command
 - b. Tactical Command Organization
 - c. Warfare Commanders (S, X, Z, P, W, Q)
 - d. Functional Group Commanders (U, J, G, N, URG CDR)
 - e. Coordinators (R, H, L)

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 4255 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	SI	DASC ASCO (7208)

References. 1. 1. JP 3-0 Joint Operations

2. 2. JP 3-32 Command and Control for Joint Maritime Operations
3. 3. NWP 3-56 Composite Warfare: Maritime Operations at the Tactical Level of War
4. 4. NWP 3-02 1.4M / MCWP 3-31.8 Defense of the Amphibious Task Force
5. 5. Littoral Operations in a Contested Environment
6. 6. MCRP 3-20.2 MTTP for Air Operations in Maritime Surface Warfare

ACAD -4260 **1.0** **730** **B, R, M** **(N)** **G**

Goal. Describe Air Operations in Maritime Surface Warfare

Requirement

Perform the following:

1. Define Air Operations in Maritime Surface Warfare (AOMSW).
2. Define the maritime domain.
3. Discuss the four AOMSW mission sets.
4. Discuss the differences between air operations over land and sea.

5. Describe the CWC tactical areas.
6. Describe the engagement zone delineation.
7. Identify the nine communications networks used during a surface warfare mission involving aviation.
8. Define an Aircraft Control Unit (ACU).
9. Identify which warfare commander the ACU is an extension of.
10. Describe the difference between air intercept control (AIC) and maritime air control (MAC) duties.
11. Describe the responsibilities of an ACU conducting MAC.
12. Describe mission planning considerations of AOMSW.
13. Describe the ACU communications flow.
14. Describe the MAC format.
15. Describe the general SUW procedures.
16. Describe the differences between ICEPACK and GREEN CROWN.
17. Identify Maritime Air Operations (AIR-MAR) brevity codes.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 4260 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 4260 Conducted In		If 4260 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				4255

References. 1. 1. MCRP 3-20.2 MTTP for Air Operations in Maritime Surface Warfare
2. 2. MCRP 3-30B.1 MTTP for Multi-Service Brevity Codes

3.13.3 Familiarization (FAM(4)) (FAM(4))

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.

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.

FAM-4305 1.0 * B (N) L

Goal. Observe the configuration and operation of a Marine Air Traffic Control Mobile Team (MMT).

Requirement

Complete the following:
Tour an operational MMT.

Performance Standards. Complete a tour of an MMT.

Instructor

AND/OR	If Event 4305 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.7, MATC Detachment Handbook

FAM-4310 **1.0** * **B** **(N)** **L**

Goal. Observe the configuration and operation of a Supporting Arms Coordination Center (SACC).

Requirement

Complete the following:
Observe a SACC.

Performance Standards. Complete a tour of a SACC.

Instructor

AND/OR	If Event 4310 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. JP 3-02, Joint Doctrine for Amphibious Operations

FAM-4315 **1.0** * **B** **(N)** **L**

Goal. Observe the configuration and operation of a Navy Tactical Air Control Center (NTACC).

Requirement

Complete the following:
Observe an operational NTACC.

Performance Standards. Complete a tour of a NTACC.

Instructor

AND/OR	If Event 4315 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

References. 1. 1. JP 3-02, Amphibious Operations

3.14 MISSION PLUS PHASE

Purpose. The purpose of this phase is to instruct...

General. *as required or remove the line*

Admin Notes

MISSION PLUS PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ASE(4)	3.15.1	3-82
ACAD (4)	3.15.2	3-83
FAM(4)	3.15.3	3-84

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3.15 MISSION PLUS STAGES3.15.1 Controller (CTRL(45)) (CTRL (45))**CTRL -4505 2.0 365 B, R, M (N) L/S**Goal. Control FW or RW aircraft in support of Maritime Surface WarfareRequirement

Given a scenario, supporting documentation, conduct the following tasks:

1. Procedurally control an aircraft during Surface Surveillance Coordination (SSC)
 - a. Assign the aircraft a search location
 - b. Procedurally control the aircraft using geo-references, bearing and range, or search pattern
 - c. Process and forward identification and tracking of surface and subsurface targets
2. Control a strike on a surface target
 - a. Receive tasking from the SCC
 - b. Assign an aircraft
 - c. Brief a 9-line or 6-line
 - d. Procedurally control the aircraft
 - e. Process BHA

Performance Standards. 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

	If Event 4505 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
	If 4505 Conducted In		If 4505 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				4260

References. 1. 1. JP 3-0 Joint Operations

2. 2. JP 3-32 Command and Control for Joint Maritime Operations

3. 3. NWP 3-56 Composite Warfare: Maritime Operations at the Tactical Level of War

4. 4. NWP 3-02 1.4M / MCWP 3-31.8 Defense of the Amphibious Task Force

5. 5. Littoral Operations in a Contested Environment

6. 6. MCRP 3-20.2 MTTP for Air Operations in Maritime Surface Warfare

3.15.2 Tactical Data Link (TDL(4)) (TDL(4))**TDL-4825 1.0 * B (N) 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 Standards. Pass an exam.

- References.
1. 1. TACMEMO 3-01.3-12 CEC Tactical Employment Guide, Feb 2012
 2. 2. USN Capabilities and Limitations website <http://cnl.phdnswc.navy.smil.mil/>
 3. 3. Navy CEC Fact Sheet
 4. 4. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
 5. 5. Marine Primer on Expeditionary Integrated Fire Control (IFC)

TDL-4830 2.0 730 B, R, M (N) L

Goal. Operate an Air Defense Systems Integrator (ADSI).

Requirement

Given an ADSI and operational documents; using the System Manager, perform the following:

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. Perform Dynamic Link Reconfiguration (DLR).
4. Configure Data Link Forwarding and Filtering per the data link architecture and OPTASKLINK.
5. Inspect link configurations.
6. Activate Data Extract (DX) control
7. View DX control status
8. View data links panel status
9. View receive unit matrix status
10. View network diagram panel status
11. View transmit unit matrix status

Performance Standards. Complete the requirements IAW the references.

Instructor

AND/OR	If Event 4830 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASCO (7208)

- References.
1. 1. ADSI Software User's Guide v5.5
 2. 2. Software Administrator's Manual (SAM) for AC2S TM 11402B/12506A/12714A-15/111
 3. 3. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

TDL-4836 8.0 * B (N) L

Goal. Operate Link 16.

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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. Obtain the Link 16 initialization data load (IDL) from the USMC Network Design Facility.
6. Verify equipment is configured correctly.
7. Verify the cryptographic equipment is keyed.
8. Verify the system time is correct for synchronization.
9. Verify the correct IDL file is loaded.
10. Enter/exit link IAW published procedures.
11. Achieve fine synchronization with another interface unit.
12. Operate in/as the following:
 - a. Radio Silent or data silent.
 - b. Network Time Reference (NTR).
 - c. Initial Entry JTIDS Unit (IEJU).

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

Instructor

	If Event 4836 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
	If 4836 Conducted In		If 4836 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				2817
AND	(N)	L				2818

References. 1. 1. MIL-STD-6016_, DoD Interface Standard, Tactical Data Link (TDL) 16

2. 2. Software Administrator's Manual (SAM) for AC2S TM 11402B/12506A/12714A-15/111

3. 3. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

4. 4. USMC NDF Website

TDL-4840 8.0 * B (N) 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 configuration of the Secure Terminal Equipment-Remote (STE-R) or STE for JREAP B operations.
2. Verify the JREAP B link is built properly.
3. Enter and activate filters per the OPTASKLINK.
4. Enable and disable the correct link connections.
5. Enter / exit link IAW published procedures.

Performance Standards. Successfully exchange information/data.

4. 4. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

3.15.3 Command & Control System (C2SYS(4)) (C2SYS(4))

C2SYS-4904	1.0	*	B	(N)	G
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Goal. Demonstrate proficiency with TBMCS Web Mapping.

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Start Map Manager.
2. Initiate WEBEM Map Control Panel (EMMCP).
3. View a map from within a map plotting application.
4. Set Mouse Mode and Map Units.
5. Set the map projection, background and opacity.
6. Navigate a map.
7. Locate an object by entering coordinates.
8. Use the coordinates tool to convert between Lat/Long (decimal and degrees) and MGRS.
9. Use highlight.
10. Center and activate/remove functions.
11. Toggle layer visibility and change order of layers.
12. Set the Gestures Mouse Mode and Selection Tolerance.
13. Set line width, symbol size, highlight color and label visibility.
14. Save, restore and delete preference.
15. Save and print the current map display.
16. Stop Map Manager.

Performance Standards. With the aid of references, launch the Map Manager and manipulate a map with missions, ACMs, air bases, targets or units displayed.

References. 1. 1. TBMCS User's Manual

C2SYS-4905	1.0	*	B	(N)	G
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Goal. Demonstrate proficiency utilizing the Air Tasking Order Airspace Control Order Tool (AATWEB).

Requirement

Given an operational TBMCS and training materials, conduct the following for a total of five ATO and five ACO messages:

1. Initiate the AAT application.
2. View, sort, filter, and print received ATO and ACO messages.
3. Export into a document format (Excel, Text).
4. Delete ATO and ACO messages.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4906	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency with the TBMCS Web Based Airspace Deconfliction Software (WEBAD).

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Initiate a WEBAD Session.
2. Connect WEBAD to WebMap.
3. Create an airspace group for the utilization of theater airspace in current and future operations (airspace
4. Enter Airspace Coordinating Measures (ACMs).
5. Create ACMs circle, corridor, line, orbit, point, polygon, poly-arc, rad-arc, track.
6. Provide ACM comments using the comments tab.
7. Create an ACM using a map.
8. Create, edit and copy a Filter.
9. Move ACMs to another airspace group.
10. Copy ACMs to another airspace group.
11. Change the state of ACMs.
12. Set ACMs time.
13. Shift ACMs in time.
14. Shift ACMs in location.
15. Map ACMs connect to the map.
16. Clear ACMs from the map.
17. Display the legend.
18. Create a deconfliction filter.
19. Determine a conflict between ACMs.
20. Specify the criteria for determining a conflict between ACMs.
21. Determine if a conflict may exist among ACMs.
22. Create, edit, and copy deconfliction filters.
23. Generate and print a conflict report.
24. Determine airspace deconfliction over multiple ACM Groups based on:
 - a. Mean Sea Level (MSL).
 - b. Above Ground Level (AGL) calculations.
 - c. Display ACMs and associated conflicts on a map.
25. Edit and copy the airspace group.
26. Create, edit and copy, preferences.
27. Edit or view ACMs by filtering using:
 - a. ACM Groups.
 - b. ACM Types.
 - c. ACM Usages.
28. Export ACMs to a file.
29. Release an ACO.
30. Create an Airspace Control Order (ACO) message.
31. Change ACO tab information.
32. Change Declassification tab information.
33. Release tab information.
34. Preview the ACO before it is released and approved.
35. Publish the ACO.
36. Generate the ACO Message.
37. Validate ACO Message Body.
38. Release the ACO message to AATWEB.
39. Generate an ACO change message.
40. Change an existing ACO.
41. Publish the ACO change.
42. Generate the ACO change message.
43. Validate ACO change message body.
44. Release the ACO change message to AATWEB.
45. Delete the following:

- d. Ground Control Unit Status Change.
- e. Deviation.
- f. Runway Status Change.
- g. Weather Status Change.
2. Generate alerts to notify specified users.
3. Setup filters for alerts.
4. Designate how alerts are received.
5. Store alerts in an Alert Log.

Performance Standards. With the aid of references, complete the required items.

References. 1. 1. TBMCS User's Manual

C2SYS-4909 2.0 * B (N) G

Goal. Demonstrate proficiency using the TBMCS Force Status and Monitoring (FSTAT) tool to monitor and update Friendly Order of Battle (FrOB) status.

Requirement

Given an operational TBMCS and training materials, the operator will report, display, and modify FrOB status:

1. Select and describe the below listed status webpages:
 - a. ADA (Air Defense Artillery) Unit Status.
 - b. Aircraft Unit Status.
 - c. Base Status.
 - d. Surface C2 Unit Status.
 - e. Missile Unit Status.
 - f. Fire Unit Status.
2. Perform the following FSTAT functions for a selected status webpage:
 - a. Drag and drop setting of column display order.
 - b. Show/hide columns.
 - c. Multi-level column complex sort capability.
 - d. Quick sort by clicking on the column header.
 - e. Dragging to adjust column widths.
 - f. Automatic restore of GUI customization settings.
 - g. Local/Zulu selectable time display with user selectable time zone.
 - h. Multi-column, multi-value filtering.
 - i. Saving of user defined filters.
 - j. Visual indication of update status.
 - k. Table printing.
 - l. Copy of main table to clipboard for paste into Microsoft (MS) Excel.
 - m. Status bar with appropriate record counts, queued transaction counts, and connectivity status.
 - n. Color coding of status values.
 - o. Plotting of information to the associated map product.

Performance Standards. With the aid of references, perform five of the required items for a selected status webpage.

References. 1. 1. TBMCS User's Manual

C2SYS-4912 4.0 * B (N) G

Goal. Demonstrate proficiency with TBMCS Marine Corps Air Mission Planner (MCAMP) for Mission Replanning.

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Requirement

Given an operational TBMCS and training materials, complete the following:

1. Initiate MCAMP.
2. Edit a selected mission.
3. Generate ATO Change.
4. Exit MCAMP.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4913 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency importing an airspace group in TBMCS.

Requirement

Given an operational TBMCS and training materials, complete the following in order to import airspace:

1. Open the ABP in setup mode.
2. Open the Airspace Group Import menu.
3. Perform an initial or incremental import of selected airspace.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4914 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency creating a TBMCS Air Battle Plan (ABP) shell.

Requirement

Given an operational TBMCS and training materials, create an ABP shell that will correspond with the execution dates of the Air Tasking Order (ATO) using:

1. A new shell.
2. An existing ABP.

Performance Standards. With the aid of references, complete the required items.

References. 1. 1. TBMCS User's Manual

C2SYS-4915 **2.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency creating ground targets in TBMCS.

Requirement

Given an operational TBMCS and training materials, create preplanned ground targets by performing the following:

1. Open the ABP.
2. Open the Ground Target Requests menu.
3. Open the Target Nomination List Table and append the line.
4. Enter the required information for each preplanned target.
5. Save the target information.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4916	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency creating missions in TBMCS.

Requirement

Given an operational TBMCS and training materials, create missions by performing the following:

1. Open the ABP.
2. Open the appropriate mission planning window for the type of mission being planned.
 - a. Wide Area Geographic (WAG).
 - b. Ground Alert.
 - c. Air Location.
 - d. Air Move.
 - e. Air Drop.
 - f. Ground Target.
 - g. Maritime Target.
 - h. Missile Target.
 - i. Reconnaissance.
 - j. Tanker.
3. Fill out required blocks of the mission planning form.
4. Save the mission.
5. Verify if mission is flyable and adjust accordingly.
 - a. Deconflict airspace.
 - b. Deconflict with other missions.
 - c. Create and pair tanker support to mission.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4917	1.0	*	B	(N)	G
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Goal. Demonstrate proficiency publishing the ATO.

Requirement

Given an operational TBMCS and training materials, publish the completed ATO by performing the following:

1. Open the ABP.
2. Export the Friendly Order of Battle.
3. Approve missions.
4. Generate/Validate the ATO.
5. Send ATO to ATO / ACO Tool (AAT)/IRIS.
6. Set ABP to execute.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4921 **4.0 * B** **(N) G**

Goal. Demonstrate proficiency operating C2 Personal Computer (C2PC).

Requirement

Given a computer with the current version of C2PC installed, a functional network and Common Tactical Picture (CTP) architecture, perform the following:

1. Initiate the C2PC application.
2. Describe key areas of the C2PC main window.
3. Configure C2PC for communications with a gateway.
4. Configure the display.
5. Load digital map products.
6. View digital map products.
7. View and manipulate charts.
 - a. Center/width.
 - b. Map pan.
 - c. Create and view multiple maps/charts.
 - d. Map colors.
 - e. Blank map.
 - f. Map features.
 - g. Full screen (F11).
 - h. Copy map as bitmap or JPEG.
8. Set plot options.
9. Create, modify and filter tracks in a Common Tactical Picture (CTP).
10. Use declutter option.
11. Use injector manager.
12. Create, modify, display, and analyze C2PC routes.
13. Create, modify, and save a C2PC overlay.
14. Import and export coordinates from an overlay file.
15. Export and transmit a C2PC overlay
16. Save map.
17. Configure the Effects Management Tool (EMT) for communication to an AFATDS server.
18. Demonstrate how to filter EMT data for the CTP.
19. Take a screenshot of the C2PC display.
20. Exit C2PC.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. Manufacturer's Operating Instructions

2. 2. Manufacturer's Technical Instructions and Publications

3. 3. MarineNet C2PC Course (Course Code C2P001)

4. 4. MISTC C2TECOE: <http://www.29palms.marines.mil/Staff/G3OperationsandTraining/MISTC29.aspx>

C2SYS-4924 **1.0 730 B, R, M** **(N) G**

Goal. Demonstrate proficiency operating Joint Automated Deep Operations Coordination System (JADOCS).

Requirement

Given a functional JADOCS system and training materials, perform the following:

1. Initiate JADOCS application.
2. Identify capabilities of JADOCS.
3. Locate and identify all items on the JADOCS User Interface.

4. Demonstrate usage and management of User Preferences in JADOCS.
5. Demonstrate usage and management of Tools available in JADOCS.
6. Demonstrate usage and display of View Menu options.
7. Employ the JADOCS Supported Map Products.
8. Manage, develop and maintain overlays using the JADOCS client workstation.
9. Demonstrate usage and management of Filters available in JADOCS.
10. Demonstrate usage of the COMS Menu option.
11. Demonstrate usage, use of Tools and filtering of Track Manager.
12. Demonstrate usage, use of Tools and filtering of Units Manager.
13. Conduct Operations using Coordination Manager and associated tools.
14. Manage and Conduct C2 operations using JADOCS database menus and functions.
15. Conduct Operations using Engagement Zone Manager and associated tools.
16. Demonstrate usage and filtering of Counterfire Mission Manager.
17. Demonstrate usage of the Fires Manager.
18. Conduct Operations using Joint Fires Manager and associated tools.
19. Conduct Operations using Target Data Nominator Manager and associated tools.
20. Conduct Operations using Joint Time Sensitive Targets Manager and associated tools.
21. Conduct Operations using the ITO Manager and associated tools.
22. Track and Take Action XINT and Mobile Target Missions in the ITO Execution Manager.
23. Demonstrate usage of JADOCS management tool bars.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. DCOCSOP Digital COC SOP for Battalion Operations in Irregular Warfare
2. 2. JADOCS ver 1.0.3.5 Build 25 Mar 2008 Joint Automated Deep Operations Coordination System

C2SYS-4941	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency operating Web Development Software (i.e., SharePoint).

Requirement

Given a workstation and a functional communications network, perform the following:

1. Use the Quick Launch Bar.
2. Delete an item.
3. Restore a deleted item.
4. Search the site for an identified object.
5. Create an announcement.
6. Create an event.
7. Add a link.
8. Create a task.
9. Create a contact.
10. Edit a list item.
11. Export list items to Outlook.
12. Export list items to a spreadsheet.
13. Use project tracking.
14. Open a document.
15. Edit a document.
16. Check out a document.
17. Check in a document.
18. Create a new folder.
19. Create a new document.
20. Upload a document.

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21. View version history.
22. Upload a picture to a library.
23. Edit a picture.
24. Delete a picture.
25. Create an alert.
26. Create a new discussion thread.
27. Read and reply to a discussion thread.
28. Respond to a survey.
29. Export survey results.
30. View survey results.
31. Add a web part.
32. Remove a web part.
33. Modify a web part.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects. Requirement is met by completion of MISTC SharePoint I.

References. 1. 1. SharePoint Users Guide: www.microsoft.com/sharepoint

3.16 INSTRUCTOR TRAINING PHASE

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, WTPP Officer, or direct representative as delineated.

Admin Notes.

a. The MACCS instructor concept is a means to standardize all instructors across the MACCS in regards to concepts of managing a WTPP, 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://mceits.usmc.mil/sites/mawts1/SitePages/C3.aspx>

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

INSTRUCTOR TRAINING PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
BI(5)	3.17.1	3-98
SI(5)	3.17.2	3-101

3.17 INSTRUCTOR TRAINING STAGES

3.17.1 Basic Instructor (BI(5)) (BI(5))

Purpose

To train the individual Marine in the skills required to lead a period of instruction.

BI-5000 **2.0 * B** **(N) G**

Goal. Introduce principals of instruction.

Requirement

Given the reference, the BIUT will demonstrate the following with the assistance of a unit instructor:

1. Adult learning principles.
 - a. Pedagogy to andragogy.
 - b. Characteristics of the adult learner.
 - c. Learning styles.
 - d. How adults learn.
 - e. Domains of learning.
 - f. Group dynamics.
 - g. Motivation.
 - h. Constructivist learning environments.
2. Introduce, discuss, and demonstrate instruction techniques.
3. Introduce, discuss, and demonstrate class management techniques.
 - a. How to select teaching resources to accommodate student learning styles.
 - b. How to properly organize the instructional environment for effective learning.

Performance Standards. With the aid of references, the BIUT shall demonstrate principles of instruction. During this session, the instructor shall discuss the event content and question the student throughout the training to ensure understanding.

Instructor

	If Event 5000 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	SI	DASC ASCO (7208)

- References.
1. 1. Adult Learning section, Systems Approach to Training Manual (2004)
 2. 2. NAVMC 3500.14, Aviation T&R Program Manual
 3. 3. NAVMC 1553.1, Systems Approach to Training

BI-5010 **2.0 * B** **(N) G**

Goal. Describe individual T&R requirements.

Requirement

Using the Aviation T&R Program Manual, discuss the purpose of each of the following items with an instructor:

1. Training progression model.
2. Programs of Instruction.
 - a. Basic.
 - b. Refresher.
 - c. Conversion.
 - d. Series Conversion.
 - e. Transition.
 - f. Maintain.
3. T&R attain and maintain tables.
4. Syllabus notes.
5. T&R syllabus structure.
 - a. Phase.
 - b. Stage.
 - c. Event.

- d. Skill.
- e. Syllabus.
- 6. Event format.
 - a. Header.
 - (1) Event prefix - event code.
 - (2) Projected event duration.
 - (3) Proficiency period.
 - (4) Programs of instruction (POI).
 - (5) Event conditions.
 - (6) Device options.
 - (7) Device number.
 - (8) Device type.
 - b. Body.
 - (1) Goal.
 - (2) Requirement.
 - (3) Performance standard.
 - (4) Equipment.

Performance Standards

Without the aid of references and during a discussion session, the BIUT shall describe Individual T&R requirements.

During this session, the instructor shall discuss the event content and question the student throughout the training session to ensure understanding.

Instructor

AND/OR	If Event 5010 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	SI	DASC ASCO (7208)

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. NAVMC 1553.1, Systems Approach to Training

BI-5020 **12.0 90** **B, R, M** **(N)** **L**

Goal. Conduct T&R instruction.

Requirement

The BIUT will complete the following for each of the three events instructed:

1. Prepare to train the event.
 - a. Review a trainee's performance record to identify required training for the event selected.
 - b. Ensure the student has met prerequisites for the event to be trained.
 - c. Gather the resources necessary to conduct the training (i.e., instructional materials, references, and equipment).
 - d. Conduct task analysis on each event to ensure all intended requirements and prerequisite skills, specified or implied, are trained IAW applicable references.
 - e. Schedule the training event (facilities and students).
 - f. Prepare an evaluation form for each student to be evaluated.
2. Conduct training on the event selected:
 - a. Ensure all training resources are properly staged/equipment if set up properly for training.
 - b. Instruct the student in a thorough manner so as to cover all requirements for the event.
 - c. Ensure continuous, objective assessment of the student's progress during training.
3. Assess student performance:
 - a. Assess the student's performance to the performance standard.

4. Define each of the following elements of training:
 - a. Certification.
 - b. Qualification.
 - c. Designation.
5. Explain how changes are made to the Program manual:
 - a. Explain T&R conference procedures.
 - b. Explain correspondence change procedures.

Performance Standards. Complete the requirements IAW the reference. Instructor will question the SIUT to check for thorough understanding of the Aviation T&R Program.

Instructor

AND/OR	If Event 5100 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	SI	DASC ASCO (7208)

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. MCO 3500.109A, Marine Corps Aviation Weapons and Tactics Training Program

SI-5110 **4.0 365 B, R** **(N) L**

Goal. Conduct instructor evaluations.

Requirement

Using the instructor evaluation checklist from the SAT manual, conduct two evaluations on instructors of equal or lower designation.

1. Provide notification of evaluation to the instructor being evaluated.
2. Do not interfere with or disrupt the instruction while taking place.
3. Thoroughly document observed items on the checklist.
4. Ensure student evaluation form is filled out correctly and the appropriate debrief took place.
5. Debrief the instructor being evaluated on their preparation, instruction, evaluation, and documentation.
6. Have the evaluated instructor complete the instructor improvement plan section and sign.
7. File a copy of the completed evaluation form in both the evaluator's and evaluated instructor's performance record.

Performance Standards. Complete the requirements IAW the reference.

Instructor

AND/OR	If Event 5110 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 5110 Conducted In		If 5110 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5100

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. Applicable community T&R Manual

3. 3. MCO1553.2B, Appendix O, Formal Schools Management

SI-5120 **2.0** * **B** **(N)** **L**

Goal. Perform T&R administration.

Requirement

Document training to include:

1. Performance records.
2. Ensure MSHARP is updated appropriately.
3. Assemble recommendation package for certifications, qualifications, and designations IAW T&R manual.

Performance Standards. Complete the requirement items IAW the references. Instructor will question the trainee to check for understanding of the administration process.

Instructor

AND/OR	If Event 5120 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 5120 Conducted In		If 5120 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5100
AND	(N)	L				5110

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. Local WTPP SOP

3. 3. <http://msharpsupport.com>

SI-5130 **2.0** * **B** **(N)** **L**

Goal. Develop a training plan.

Requirement

Given a deployment scenario develop a training plan to determine individual, and crew training needed to meet CMMR by completing the following:

1. Review Commander's training guidance.
2. Analyze the CMTR to determine training deficiencies and how to achieve CMMR.
3. Identify and schedule T&R training opportunities IAW the TEEP to achieve requirements.
4. Determine instructors required.
5. Determine equipment required.
6. Determine external support required.
7. Deliver a brief to the instructor that shows:
 - a. Crew manning and training requirements.
 - b. Current training status.
 - c. Identify the training deficiencies and resource shortfalls.
 - d. Explain the training plan to correct the training deficiencies.
 - e. Training plan meets commander's guidance.

Performance Standards. Complete the requirement items IAW the references and commander's training guidance. Training plan will ensure adequate time is allocated to include preparation, instruction, assessment, documentation, and remediation.

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Instructor

AND/OR	If Event 5130 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 5130 Conducted In		If 5130 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5100
AND	(N)	L				5110
AND	(N)	L				5120

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. Applicable Community T&R manuals

3.18 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) PHASE

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.

General.Admin Notes.

1. The WTPP 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.

Stages. The following stages are included in this phase of training.

REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
SCHL(6)	3.19.1	3-104
QUAL(6)	3.19.2	3-110
DESG(6)	3.19.3	3-112
CERT(6)	3.19.4	3-114

3.19 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) STAGES3.19.1 School Codes (SCHL(6)) (SCHL(6))Purpose

To provide tracking codes for required schools and training.

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.

SCHL-6000 **0.5** ***** **B** **(N)** **G**

Goal. Complete WTI Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

Prerequisites

EVENTS						
	If 6000 Conducted In		If 6000 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				6320
AND	(N)	G				6321
AND	(N)	G				8000
AND	(N)	G				8020
AND	(N)	G				8040
AND	(N)	G				8060
AND	(N)	G				8080

References. 1. C3 Course catalog

SCHL-6001 **0.5** ***** **B** **(N)** **G**

Goal. Complete Senior Watch Officer's Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6002 **0.5** ***** **B** **(N)** **G**

Goal. Complete Air Command and Control Officer's Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6003 **0.5** ***** **B** **(N)** **G**

Goal. Complete Air Tasking Order Development (ATOD) Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6010	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Airspace Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6011	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Personnel Recovery Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6012	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Plans/Ops Technician Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6015	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Joint Air Operation Center Command and Control Course (JAOC2C) Airspace Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6016	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Joint Air Operations Senior Staff Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6020	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Link 16 Basics Course (JT-100)

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6021	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Intro to Multi TDL Network (JT-101).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6022	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6024	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Multi TDL Planner Course (JT-201).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6025	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Link 16 Unit Manager (LUM) Course (JT-220).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6026	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Joint Interface Control Officer (JICO) (JT-301).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6027	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Advanced JICC Operator Course (JT-310).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6067	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Military Airspace Management Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6082	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Joint Firepower Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6096	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Respective Instructor Development Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6106 0.5 * B (N) G

Goal. Amphibious Airspace Operations Coordination Course, CID: N03RCDM

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6107 0.5 * B (N) G

Goal. Amphibious Warfare Indoctrination, CID: N30M2T1

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6108 0.5 * B (N) G

Goal. Intermediate Amphibious Operations

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6109 0.5 * B (N) G

Goal. Supporting Arms Coordination Center, CID: N03M031

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6110 0.5 * B (N) G

Goal. ASW/ASUW Tactical Air Controller (ASTAC)/Sea Combat Air Controller (SCAC)

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

SCHL-6111 **0.5 * B** **(N) G**

Goal. Joint Maritime Tactics Course

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. C3 Course Catalog

3.19.2 Qualifications (QUAL(6)) (QUAL(6))

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.

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.

QUAL-6230 **0.5 * B** **(N) G**

Goal. Qualification as an HD.

Requirement

Complete the required training for HD. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standards. Proficiency demonstrated in prerequisites.

Prerequisites

EVENTS						
	If 6230 Conducted In		If 6230 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3005

References. 1. None.

QUAL-6235 **0.5 * B** **(N) G**

Goal. Qualification as a TAD.

Requirement

Complete the required training for TAD. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standards. Proficiency demonstrated in prerequisites.

Prerequisites

EVENTS						
	If 6235 Conducted In		If 6235 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3105

References. 1. None.

QUAL-6240 **2.0** ***** **B** **(N)** **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 Standards. 1. Answer 8 of 10 factual questions correctly.

Instructor

AND/OR	If Event 6240 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	WTI	DASC ASCO (7208)

Prerequisites

EVENTS						
AND/OR	If 6240 Conducted In		If 6240 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				6245
OR	(N)	L				6250
AND	(N)	L				3205
AND	(N)	L				6230
AND	(N)	L				6235

References. 1. None.

QUAL-6245 **0.5** ***** **B** **(N)** **G**

Goal. Qualify as an ASLT OIC.

Requirement

Complete the required training in the ASLT OIC POI. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standards. Proficiency demonstrated in prerequisites.

Prerequisites

EVENTS						
AND/OR	If 6245 Conducted In		If 6245 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3300

References. 1. None.

QUAL-6250 **0.5** ***** **B** **(N)** **G**

Goal. Qualify as an ASE OIC.

Requirement

Complete the required training in the ASE stage. Be observed and recommended for qualification by a WTI and designated in writing by the commanding officer.

Performance Standards. Proficiency demonstrated in prerequisites.

Prerequisites

EVENTS						
	If 6250 Conducted In		If 6250 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				6230
OR	(N)	G				6235
AND	(N)	G				3350

References. 1. None.

QUAL-6255 **0.5** ***** **B** **(N)** **G**

Goal. Qualify as a CTRL.

Requirement

Complete the required training for CTRL. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standards. Proficiency demonstrated in prerequisites.

Prerequisites

EVENTS						
	If 6255 Conducted In		If 6255 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				2415
AND	(N)	G				3500

References. 1. None.

3.19.3 Designations (DESG(6)) (DESG(6))

Purpose

To provide for the designation of combat leaders and instructors.

Admin Notes

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.

DESG-6300 **0.5** ***** **B** **(N)** **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 Standards. N/A.

Prerequisites

EVENTS						
	If 6300 Conducted In		If 6300 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3400

References. 1. None.

DESG-6320 **0.5 * B** **(N) G**

Goal. Designation as a Basic Instructor (BI).

Requirement

Be recommended for designation by a SI or WTI and designated in writing by the commanding officer.

Performance Standards. N/A.

Prerequisites

EVENTS						
	If 6320 Conducted In		If 6320 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				5000
AND	(N)	G				5010
AND	(N)	G				5020

References. 1. None.

DESG-6321 **0.5 * B** **(N) G**

Goal. Designation as a Senior Instructor (SI).

Requirement

Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standards. N/A.

Prerequisites

EVENTS						
	If 6321 Conducted In		If 6321 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				5000
AND	(N)	G				5010
AND	(N)	G				5020
AND	(N)	G				5100
AND	(N)	G				5110
AND	(N)	G				5120
AND	(N)	G				5130

References. 1. None.

DESG-6322 **0.5 * B** **(N) 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 Standards. N/A.

Prerequisites

EVENTS						
AND/OR	If 6322 Conducted In		If 6322 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				6000

References. 1. None.

DESG-6325 **0.5 * B** **(N) G**

Goal. Designation as a Formal Learning Center (FLC) Instructor.

Requirement

Complete applicable formal learning center instructors course.

Performance Standards. N/A.

Prerequisites

EVENTS						
AND/OR	If 6325 Conducted In		If 6325 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				6096

References. 1. None.

3.19.4 Certifications (CERT(6)) (CERT(6))

CERT-6500 **3.0 * B** **(N) L**

Goal. Conduct M2 heavy machine gun firing exercise.

Requirement

Given an M2 heavy machinegun, ammunition;
Conduct firing exercise.

Performance Standards. Achieving a qualifying Table II score, per FM 23-65.

Instructor

AND/OR	If Event 6500 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A555	1	1	1	1	None
A576	1	1	1	1	None
A598	1	1	1	1	None

References. 1. 1. FM 23-65, Browning Machine Gun Caliber .50 HB, M2
2. 2. MCTP 3-01C, Machine Guns and Machine Gun Gunnery

CERT-6505 3.0 * B (N) L

Goal. Conduct M240 medium machine gun firing exercise.

Requirement

Given an M240 medium machinegun, ammunition;
Conduct firing exercise.

Performance Standards. Achieving a qualifying Table II score, per FM 3-22.68.

Instructor

AND/OR	If Event 6505 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A111	1	1	1	1	None
A131	1	1	1	1	None
A143	1	1	1	1	None

References. 1. 1. FM 3-22.68, Crew Served Machine Guns
2. 2. MCTP 3-01C, Machine Guns and Machine Gun Gunnery

CERT-6510 3.0 * B (N) L

Goal. Conduct M1014 combat shotgun firing exercise.

Requirement

Given a M1014 combat shotgun and ammunition:
Conduct firing exercise.

Performance Standards. Achieving a qualifying score.

Instructor

AND/OR	If Event 6510 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASCO (7208)

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Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A011	1	1	1	1	None
A023	1	1	1	1	None

References. 1. 1. FM 3-22.68, Crew Served Machine Guns

2. 2. MCTP 3-01C, Machine Guns and Machine Gun Gunnery

3. 3. TM 10698A-10/1

3.20 MET ASSESSMENT PHASE

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.

General.

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.

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.

MET ASSESSMENT PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
MET(7)	3.21.1	3-116

3.21 MET ASSESSMENT STAGE

3.21.1 Mission Essential Task (MET(7)) (MET(7))

Purpose

To train unit level teams in executing community specific MET(s) or MET preparatory events.

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.

MET-7001 3.0 730 B, R, M I (N) L/S

Goal. Conduct Airspace Management.

Requirement

Capable of coordinating, integrating, and regulating airspace.

1. Capable of establishing Long haul HF or SAT Comms.

2. Squadron level simulation conducted within the last 12 months with task organized extensions.

3. Capable of managing MAGTF airspace.

4. Able to receive, develop and process changes to airspace control procedures.

5. Receive, develop and process changes to airspace control procedures.
6. Able to integrate all airspace users within assigned airspace.
7. Able to establish / maintain communications.

Performance Standards. Conduct Airspace Management per MCT 5.3.5.3.1 and this manual.

Instructor

AND/OR	If Event 7001 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7002 **3.0** **730** **B, R, M** **I** **(N)** **L/S**

Goal. Process Requests for Immediate Air Support.

Requirement

Capable of receiving, processing, and coordinating immediate requests for direct air support.

1. Capable of processing immediate requests for air support.
2. Squadron level simulation conducted within the last 12 months with task organized extensions.
3. Able to validate and assign or recommend sourcing for immediate air support requests.
4. Able to receive / send immediate air support requests and mission data.
5. Able to receive / process updates and required mission reports.
6. Able to establish / maintain communications.

Performance Standards. Process Requests for Immediate Air Support per MCT 5.3.5.3.3 and this manual.

Instructor

AND/OR	If Event 7002 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7003 **3.0** **730** **B, R, M** **I** **(N)** **L/S**

Goal. Conduct Continuous Direct Air Support Operations While Echelonning.

Requirement

Able to pass aviation C2 authorities between organic elements while echelonning.

1. Able to pass aviation C2 authorities between simulated agencies and extensions without degradation of capabilities.
2. Passing and receiving agencies able to establish / maintain communications.
3. Passing and receiving agencies able to conduct 24 hour operations.
4. Able to pass control of direct air support operations.
5. Able to displace and emplace.
6. Able to conduct tactical movement in conjunction with a scheme of maneuver.
7. Passing and receiving agencies possess and disseminate passage of control procedures / checklist.

8. Passing and receiving agencies able to provide limited selfdefense capabilities with organic crew served weapons systems.

Performance Standards. Conduct Continuous Direct Air Support Operations While Echelonning per MCT 5.3.5.3.4 and this manual.

Instructor

AND/OR	If Event 7003 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASCO (7208)

Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A011	12	1	1	1	None
A023	12	1	1	1	None
A059	100	1	1	1	None
A063	20	1	1	1	None
A080	120	1	1	1	None
A111	800	1	1	1	None
A131	200	1	1	1	None
A143	800	1	1	1	None
A555	400	1	1	1	None
A576	100	1	1	1	None
A598	400	1	1	1	None

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7004 3.0 730 B, R, M I (N) L/S

Goal. Conduct Procedural Control.

Requirement

Capable of conducting procedural control.

1. Capable of conducting procedural control.
2. Able to receive and pass assigned missions and updates to air assets in DASC airspace.
3. Able to relay safety of flight information to aircraft.
4. Able to establish / maintain communications.
5. Able to provide appropriate aircraft routing through airspace IAW published operational documents.
6. Able to receive / process mission reports from air assets.

Performance Standards. Conduct Procedural Control per MCT 5.3.5.4.3 and this manual.

Instructor

AND/OR	If Event 7004 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7005 **3.0 730 B, R, M I (N) L/S**

Goal. Coordinate Aviation Operations, Fires, and Effects.

Requirement

Capable of coordinating the execution of aviation operations with organic MAGTF fires.

1. Capable of coordinating fires and airspace.
2. Able to establish / maintain communications.
3. Able to provide safe / appropriate routing through assigned airspace.
4. Able to receive / process updates and required mission reports.
5. Able to receive, validate, and send fire missions, ACMs, and FSCMs.
6. Squadron level simulation conducted within the last 12 months with task organized extensions.

Performance Standards. Coordinate Aviation Operations, Fires, and Effects per MCT 5.3.5.6 and this manual.

Instructor

AND/OR	If Event 7005 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7006 **3.0 730 B, R, M I (N) L/S**

Goal. Support Air Operations in Maritime Surface Warfare

(AOMSW)

Requirement

Capable of coordinating, and executing maritime air control in support of integrated naval anti-surface and anti-submarine warfare.

1. Squadron level simulation conducted within the last 12 months.
2. Able to control the four types of AOMSW.
3. Able to maintain communication between higher and adjacent command and control (C2) agencies (Navy and Marine Corps).
4. Able to plan for maritime air controller duties as an air control unit within an air battle plan.
5. Capable of coordination, and execution as an air control unit executing maritime air controller duties.

Performance Standards. Support Air Operations in Maritime Surface Warfare (AOMSW) per MCT 5.3.2.7.2.4 and this manual.

Instructor

AND/OR	If Event 7006 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASCO (7208)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

3.22 AVIATION CAREER PROGRESSION MODEL (ACPM) PHASE

AVIATION CAREER PROGRESSION MODEL (ACPM) PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ACPM(8)	3.23.1	3-120

3.23 AVIATION CAREER PROGRESSION MODEL (ACPM) STAGES

3.23.1 Aviation Career Progression Model (ACPM(8)) (ACPM(8))

Purpose

Per NAVMC 3500.14 (Aviation T&R Program Manual), the MACCS Aviation Career Progression Model (ACPM) is designed “to enhance professional understanding of Marine Aviation and the Marine Air Ground Task Force (MAGTF) and to provide Marines with a knowledge of the doctrine and tactics techniques and procedures (TTPs) of aviation command and control.

The MACCS ACPM is broken down into five stages; MACCS, Aviation Combat Element (ACE), Threat, MAGTF, and Joint Air Operations.

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 prerequisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

The learning objectives for each MACCS ACPM event are meant to be evaluated via quizzes on MCALMS. Once a student passes the MCALMS quiz, the event code will be run in M-SHARP. All MACCS ACPM events are one-time events. MAWTS-1 will maintain a standardized exam for each stage (MACCS, ACE, MAGTF, Threat, Joint) that is available to the operating forces via MCALMS. The prerequisite for taking the stage exam will be the completion of all the events in that stage. Stage exams will have their own event number (ACPM-8000, ACPM-8020, ACPM-8040, ACPM-8060, ACPM-8080) and will be tied to qualifications and certification events in MACCS T&R manuals.

ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

Admin Notes

Commanding Officers shall ensure the requisite MACCS ACPM training requirements have been met prior to approving qualifications or designations.

ACPM-8000 1.0 * B (N) G

Goal. Demonstrate an understanding of the MACCS stage.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8000 Conducted In		If 8000 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8001
AND	(N)	G				8002
AND	(N)	G				8003
AND	(N)	G				8004
AND	(N)	G				8005
AND	(N)	G				8006

EVENTS						
	If 8000 Conducted In		If 8000 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	G				8008

References. 1. C3 Course Catalog

ACPM-8001 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Marine Air Command and Control System (MACCS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Describe how the control of aircraft and missiles relates to the other five functions of USMC aviation.
2. Define the control of aircraft and missiles and each of its subcomponents.
3. Define the Marine aviations philosophy of centralized command and decentralized control.
4. Differentiate between Marine aviation philosophy and Joint aviation philosophy.
5. Identify the principle objectives of the MACCS.
6. Recall the primary role of each agency of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MACCS Agencies, Functions and the Control of Aircraft and Missiles Class
2. 2. MCTP 3-20F Control of Aircraft and Missiles

ACPM-8002 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Tactical Air Command Center (TACC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. State the mission of the TACC.
2. Identify the four organizations of the TACC.
3. List the primary responsibilities of Air Combat Intelligence (ACI).
4. List the primary responsibilities of Future Operations (FOPS).
5. List the primary responsibilities of Future Plans (FPLANS).
6. List the primary responsibilities of Current Operations (COPS).
7. List the major end items used by the TACC.
8. List the system limitations of the TACC.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 TACC Class
2. 2. MCRP 3-20F.4 Marine TACC Handbook

ACPM-8003 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Direct Air Support Center (DASC).

26 Oct 22

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the DASC.
2. List the structure and task organization of the DASC.
3. Identify the major end items and their characteristics used by the DASC.
4. List the capabilities and limitations of the DASC.
5. Identify how the DASC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 DASC Class

2. 2. MCRP 3-20F.5 DASC Handbook

ACPM-8004 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Tactical Air Operations Center (TAOC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define the mission of the TAOC.
2. Identify the Mission Essential Tasks (METs) for the TAOC.
3. Identify the structure and task organization of the TAOC.
4. Identify the major end items and their characteristics used by the TAOC.
5. Identify the capabilities and limitations of the TAOC.
6. Identify how the TAOC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 TAOC Class

2. 2. MCRP 3-20F.6 TAOC Handbook

ACPM-8005 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Marine Air Traffic Control (MATC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of MATC.
2. Identify the Mission Essential Tasks (METs) for MATC.
3. List the structure and task organization of MATC.
4. Identify the major end items and their characteristics used by MATC.
5. Identify the capabilities and limitations of MATC.
6. Identify how MATC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MATC Employment Class

2. 2. MCTP 3-20F

3. 3. MCRP 3-20F.7 Marine Air Traffic Control Detachment Handbook

ACPM-8006 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Low Altitude Air Defense (LAAD).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of the LAAD battalion.
2. Identify the structure and task organization of the LAAD battalion.
3. Identify the primary vehicle and surface-to-air weapon used by the LAAD Battalion.
4. Define the LAAD employed guidelines.
5. List the LAAD weapon applications.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 LAAD Employment Class

2. 2. MCRP 3-20F.8 LAAD Battalion Handbook

3. 3. MCRP 3-20F.9 LAAD Gunner's Handbook

ACPM-8008 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Marine Wing Communications Squadron (MWCS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of the MWCS.
2. Identify the structure and task organization of the MWCS.
3. Identify the Mission Essential Tasks (METs) for the MWCS.
4. Identify the major end items and their characteristics used by MWCS.
5. Identify the capabilities and limitations of the MWCS.
6. Identify how the MWCS is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MWCS Employment Class

2. 2. MCRP 3-30B.2 MAGTF Communications Systems

3. 3. NAVMC 3500.56 Communications Training and Readiness Manual

ACPM-8020 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the ACE stage of the MACCS ACPM.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8020 Conducted In		If 8020 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8021
AND	(N)	G				8022
AND	(N)	G				8023
AND	(N)	G				8024
AND	(N)	G				8025
AND	(N)	G				8026
AND	(N)	G				8027
AND	(N)	G				8028

References. 1. C3 Course Catalog

ACPM-8021 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC aviation operations doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the six functions of Marine aviation to include all their subsets.
2. Identify the organization and mission of the Marine Aircraft Wing (MAW), to include each type of group and squadron.
3. Define who has operational control of organic MAGTF aviation assets during Joint operations.
4. List the four types of sorties the MAGTF Commander makes available to the Joint Force.
5. Identify the purpose of the Air Tasking Order (ATO).
6. Identify the six phases of the air tasking cycle.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCWP 3-2 Aviation Operations

ACPM-8022 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC doctrine for the control of aircraft and missiles.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify how the control of aircraft and missiles relates to the other five functions of USMC aviation.
2. Identify distinctions between Marine aviation philosophy and that of the other services.
3. Identify the principle objectives of the Marine Air Command and Control System (MACCS).
4. Describe how the COMMARFOR may serve as the Joint Force Air.
5. Component Commander (JFACC), Airspace Control Authority (ACA), and Area Air Defense Commander (AADC).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 Control of Aircraft and Missiles Class

2. 2. MCTP 3-20F Control of Aircraft and Missiles

ACPM-8023 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Offensive Air Support (OAS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the purpose of the MAGTF Commanders Single Battle Concept.
2. Define the subcategories of OAS.
3. Define the requirements for effective OAS.
4. Define the three types of Deep Air Support (DAS).
5. Define the capabilities and limitations of the OAS function.
6. Identify the elements of a Joint Tactical Air Strike Request (JTAR).
7. Identify the three types of control of Close Air Support (CAS).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 OAS Class

2. 2. MCTP 3-20D Offensive Air Support

ACPM-8024 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Assault Support doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define the types of assault support operations.
2. Identify which aircraft conduct each of the types of assault support operations.
3. Identify the elements of an Assault Support Request (ASR).
4. List assault support capabilities and limitations.
5. Define the role of the air mission commander and the assault force commander during air assault operations.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 Assault Support Class

2. 2. MCTP 3-20E Assault Support

ACPM-8025 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Air Reconnaissance doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the three categories of air reconnaissance.
2. Identify the four principals of air reconnaissance.
3. Identify the five prerequisites for effective air reconnaissance.
4. Identify the current USMC aircraft that have the mission of air reconnaissance.
5. Identify the form used to request air reconnaissance.
6. Identify the five supporting operations for effective air reconnaissance.
7. Identify the capabilities and limitations of air reconnaissance.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCTP 3-20G Air Reconnaissance

ACPM-8026	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of USMC Electronic Warfare (EW) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define radar.
2. List the three basic radar types.
3. Identify the limitations and characteristics of radar systems.
4. Identify the six guidance systems and how they work.
5. List the three subdivisions of Electronic Warfare (EW).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCRP 3-32D.1 Electronic Warfare

ACPM-8027	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of USMC Antiair Warfare (AAW) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define AAW.
2. Define the two subsets of AAW.
3. Identify the principles of AAW.
4. Identify the types of Offensive Antiair Warfare (OAAW).
5. Identify the active air defense functions.
6. List three examples of passive air defense measures.
7. Define a Joint Engagement Zone (JEZ), Fighter Engagement Zone (FEZ), Missile Engagement Zone (MEZ), and Base Defense Zone (BDZ).
8. Define the air defense warning conditions.
9. Define the weapons control statuses.
10. Identify the responsibilities of the Regional Air Defense Commander (RADC) and the Sector Air Defense Commander (SADC).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCTP 3-20C Anti-air Warfare

ACPM-8028	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of USMC Ground Support (AGS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the organization responsible for providing AGS to the Marine Aircraft Wing (MAW).
2. Identify the 13 functions of AGS.

3. Identify the five activities that the Marine Wing Support Squadron (MWSS) performs for the ACE when deployed.
4. Identify the four basing concepts for MAGTF Forward Operating Bases (FOBs).
5. List the four classifications of FOBs.
6. Differentiate the distinguishing characteristics of FOBs.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 AGS Class

2. 2. MCTP 3-20B Aviation Ground Support

ACPM-8040 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Threat stage of the MACCS ACPM

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8040 Conducted In		If 8040 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8041
AND	(N)	G				8042
AND	(N)	G				8043
AND	(N)	G				8044

References. 1. C3 Course Catalog

ACPM-8041 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the surface-to-antiair threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the system name with the guidance and target aspect for the following Man Portable Air Defense Systems (MANPADS):
 - a. SA-7.
 - b. SA-14.
 - c. SA-16.
 - d. SA-18.
2. Match the system name with the guidance and associated radars for the following Radio Frequency Surface-to-Air Missile Systems (RF SAMS):
 - a. SA-2.
 - b. SA-6.
 - c. SA-8.
 - d. SA-10.
 - e. SA-11.
 - f. SA-15.
 - g. SA-20.
 - h. Roland-III.

3. Match the system name with the type and associated radar for the following Air Defense Artillery (AAA):
- ZPU 1, 2, 4.
 - ZSU-23-4.
 - 2S6.
 - S-60.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference

ACPM-8042	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the fixed wing threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- Identify the role of the AN-2 Colt.
- Identify the role of the MIG-23 Flogger.
- Identify the role of the MIG-29 Fulcrum.
- Identify the role of the MIG-31 Foxhound.
- Identify the role of the Su-24 Fencer.
- Identify the role of the Su-25 Frogfoot.
- Identify the role of the Su-27 Flanker.
- Identify the role of the Su-30 Flanker.
- Identify the role of the Tu-22M Backfire.
- Identify the role of the Tu-95 Bear.
- Identify the role of the Tu-160 Blackjack.
- Identify the role of the J-7 Fishbed.
- Identify the role of the JH-7 Flounder.
- Identify the role of the J-8 Finback.
- Identify the role of the J-10 Firebird.
- Identify the role of the H-6 Badger.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference

(<https://vcepub.tecom.usmc.mil/sites/msc/magtfc/mawts1/departments1/newc3/default.aspx>)

ACPM-8043	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the rotary wing threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- Identify the role of the Mi-24 Hind.
- Identify the role of the SA 342 Gazelle.
- Identify the role of the Ka-25 Hormone.
- Identify the role of the Mi-6 Hook.
- Identify the role of the Mi-28 Havoc.
- Identify the role of the Mi-8 Hip.
- Identify the role of the Ka-50 Kokum.

8. Identify the role of the Ka-29 Helix B.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference
(<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>)

ACPM-8044 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the missile and Unmanned Aircraft System (UAS) threat to the MAGTF
Requirement

- Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:
1. Match the system name with the terminal guidance for the following Air-to-Surface Missiles:
 - a. AS-10 Karen.
 - b. AS-11 Kilter.
 - c. AS-12 Kegler.
 - d. AS-14 Kedge.
 - e. AS-17 Krypton.
 2. Match the system name with the warhead and guidance for the following Surface-to-Surface Missiles:
 - a. FROG-7.
 - b. SCUD-B.
 - c. SCUD-C.
 - d. Nodong 1.
 - e. C 801.
 - f. C 802.
 3. Identify the mission of the following threat UAS:
 - a. Ababil.
 - b. Mohajer.
 - c. Harpy.
 - d. Heron.
 - e. ASN-206.
 - f. Pchela-1T.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. 1. MAWTS-1 Marine Aviation Intelligence Reference
<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>
2. 2. Marine Corps Intelligence Activity Iran Country Handbook (appendix A)
 3. 3. Marine Corps Intelligence Activity North Korea Country Handbook (page 86)
 4. 4. Marine Corps Intelligence Activity China Country Handbook (appendix A)
<https://www.intelink.gov/mcia/handbook.htm>
 5. 5. MCIA UAV Recognition Guide <https://www.intelink.gov/mcia/index.htm>

ACPM-8060 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF stage of the MACCS ACPM.

Requirement

Demonstrate an understanding of the MAGTF stage of the MACCS ACPM.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8060 Conducted In		If 8060 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8061
AND	(N)	G				8062
AND	(N)	G				8063
AND	(N)	G				8064
AND	(N)	G				8065

References. 1. C3 Course Catalog

ACPM-8061 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF ground combat operations.

Requirement

- b. Types of attack.
- c. Forms of maneuver.
- d. Distribution of forces.
- 5. Identify the following items related to defensive operations:
 - a. Organization of the defense.
 - b. Distribution of forces.
 - c. Types of defensive operations.
 - d. Defensive methods.

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- 1. Identify how the Ground Combat Element (GCE) is employed as part of the MAGTF and the capabilities the GCE provides to the MAGTF commander.
- 2. Define the following items related to command and control of ground combat operations:
 - a. Echelons of the GCE headquarters.
 - b. Battlespace Organization.
 - c. Battlespace Framework.
- 3. Define the five types of amphibious operations.
- 4. Identify the following items related to offensive operations:
 - a. Types of offensive operations.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCDP 1-0 Marine Corps Operations

ACPM-8062 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of fire support coordination in the Ground Combat Element (GCE).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

- 1. Identify the four fire support tasks.
- 2. List the functions of the senior fire support coordination center (FSCC) in the GCE.
- 3. List the four steps of the MAGTF Targeting Process.
- 4. Define the purpose of essential fire support tasks (EFST).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. 1. MAWTS-1 MAGTF Targeting and Fire Support Planning Class
2. 2. MCTP 3-10F Fire Support Coordination in the GCE

ACPM-8063 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of MAGTF command and control.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify MAGTF command and support relationships.
2. Identify the purpose and role of the command and control centers in the CE, ACE, GCE, and LCE.
3. Identify the purpose and role of the amphibious command and control facilities.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. MCWP 3-30 MAGTF Command and Control

ACPM-8064 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of MAGTF communications.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the six characteristics of communications and information systems.
2. Identify the mission and organizational structure of the Communications Battalion.
3. Identify the purpose of the Communications-Electronics Operating Instructions (CEOI) and what information is usually included in it.
4. Identify what information can be found in Annex K of an operations order.
5. Identify the purpose of select fires, support, and ACE specific radio nets.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. MCRP 3-30B.2 MAGTF Communications System

ACPM-8065 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of phasing control ashore.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify types of amphibious operations and how command relationships may change during the conduct of each.
2. Identify how disputes among commanders during amphibious operations are resolved.
3. Identify the key commanders and command relationships.
4. Identify the key characteristics of each phase in phasing the MACCS ashore.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. 1. JP 3-02 Amphibious Operations
2. 2. MCTP 3-20F Control of Aircraft and Missiles (Appendix C)

ACPM-8066 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of information management.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the principles of information management with their descriptions.
2. Define each of the classes of information within an information hierarchy.
3. List the characteristics of quality information.
4. Identify the role and responsibilities of an Information Management Officer (IMO).
5. Define C2 support structure and the three steps followed to develop one.
6. Identify the purpose of an information management matrix and the information management plan.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCTP 3-30B Information Management

ACPM-8067 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of Unmanned Aircraft Systems in support of MAGTF operations.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the four types of payloads.
2. Identify the three attributes that determine UAS Groups.
3. Identify the five different UAS Group Categories.
4. Identify the two types of VMU operational employment.
5. Identify the three components of the RQ-7B Communications Relay Package.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCRP 3-42.1A

2. 2. NTTP 3-22.3-VMU

ACPM-8080 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF stage of the joint air operations stage of the MACCS ACPM.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8080 Conducted In		If 8080 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8081
AND	(N)	G				8082
AND	(N)	G				8083
AND	(N)	G				8084

EVENTS						
	If 8080 Conducted In		If 8080 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	G				8085
AND	(N)	G				8086
AND	(N)	G				8087
AND	(N)	G				8088

References. 1. C3 Course Catalog

ACPM-8081 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the command and control of joint air operations.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the definition of joint air operations.
2. Identify the Joint Force Air Component Commander's responsibilities.
3. Identify the five sections that comprise the Joint Air Operations Center.
4. Identify the six phases of the Joint Air Tasking Cycle.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. DOCNET Course 3-30 (<http://www.dtic.mil/doctrine/docnet/>)

2. 2. MAWTS-1 Joint Air Operations Class

3. 3. JP 3-30 C2 of Joint Air Operations

ACPM-8082 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the theater air ground system (TAGS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. List the primary characteristics of the Theater Air Ground System (TAGS).
2. Identify the elements within the Air Forces Theater Air Control System (TACS) and their primary responsibilities.
3. Identify the aviation command and control elements with the Army Air and Ground System (AAGS) and their primary responsibilities.
4. Identify the aviation elements within the Navy's Composite Warfare Commander (CWC) architecture.
5. Identify the Amphibious Task Force (ATF) construct and its primary responsibilities.
6. Identify the aviation command and control elements within the Special Operations Air-Ground System.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCRP 3-20.1 Multi-Service Tactics, Techniques, and Procedures for the Theater Air-Ground System

ACPM-8083 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of joint fire support doctrine.

26 Oct 22

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define joint fires.
2. Define joint fire support.
3. Identify the steps of the joint fire support planning process.
4. List the various elements of the component commanders fires command and control system.
5. Define the various joint control and coordination measures associated with joint fire support.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. JP 3-09 Joint Fire Support

ACPM-8084 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of close air support (CAS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Explain key roles and responsibilities related to the planning and execution of CAS.
2. Detail key steps in the planning and execution of CAS.
3. Describe various coordination measures used in the planning and conduct of CAS.
4. Describe the manner in which the two types of CAS requests are fulfilled.
5. Identify the goal and purpose of synchronizing CAS with surface fires.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. JP 3-09.3 Close Air Support

ACPM-8085 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of joint targeting doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify types of targets.
2. Identify and describe the six phases of the joint targeting cycle.
3. Identify characteristics of a target.
4. Identify and describe steps in dynamic targeting.
5. Describe roles and responsibilities related to the joint targeting process.
6. Describe key products and processes of the joint targeting cycle.
7. Identify key terms related to the joint targeting process.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. JP 3-60 Joint Targeting

ACPM-8086 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the North Atlantic Treaty Organization (NATO).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the composition of the NATO alliance.
2. Identify the three key articles of the NATO alliance.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 NATO Class

2. 2. North Atlantic Treaty Organization Handbook

3. 3. "What is NATO" Brief (http://www.nato.int/welcome/intro_to_NATO_en.ppt)

4. 4. AJP-01(D)

ACPM-8087 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of joint airspace control doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the responsibilities of the airspace control authority (ACA).
2. Identify the basic principles for airspace control.
3. Identify the purpose of the airspace control plan (ACP).
4. Identify the purpose of the airspace control order (ACO).
5. Identify the methods of airspace control.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-30 C2 of Joint Air Operations

2. 2. JP 3-52 Joint Airspace Control

ACPM-8088 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of counter air and missile doctrine.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. JP 3-01 Countering Air and Missile Threats

3.24 ELECTRONIC AIRCREW TRAINING FORM (EATF) REASON CODES

Not Editable By Editor

3.25 T&R SYLLABUS MATRICES

3.25.1 T&R Syllabus Matrix

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
1000 PHASE - Core Introduction												
Common Air School (CAIRS(1)) (CAIRS(1)) Stage												
1000	CAIRS(1)	ACAD	Fund AC2 Employ	B	*	(N)	G	0	0.0			1000
1002	CAIRS(1)	ACAD	Comp MAGTF Ops	B	*	(N)	G	0	0.0			1002
1004	CAIRS(1)	ACAD	Charact AC2	B	*	(N)	G	0	0.0			1004
1006	CAIRS(1)	ACAD	Hand/Stor Classified	B	*	(N)	G	0	0.0			1006
1008	CAIRS(1)	ACAD	Identify AGS	B	*	(N)	G	0	0.0			1008
1010	CAIRS(1)	ACAD	Intro MACCS equip	B	*	(N)	G	0	0.0			1010
1012	CAIRS(1)	ACAD	Charact aircraft	B	*	(N)	G	0	0.0			1012
1014	CAIRS(1)	ACAD	Comp of air picture	B	*	(N)	G	0	0.0			1014
1016	CAIRS(1)	ACAD	ID oper graphics	B	*	(N)	G	0	0.0			1016
1018	CAIRS(1)	ACAD	Elements of IADS	B	*	(N)	G	0	0.0			1018
1020	CAIRS(1)	ACAD	MAGTF Comm Sys	B	*	(N)	G	0	0.0			1020
1022	CAIRS(1)	ACAD	Elem info exchange	B	*	(N)	G	0	0.0			1022
1024	CAIRS(1)	ACAD	Six functions	B	*	(N)	G	0	0.0			1024
1026	CAIRS(1)	ACAD	Space, Nav, Time	B	*	(N)	G	0	0.0			1026
1028	CAIRS(1)	ACAD	WX in the MACCS	B	*	(N)	G	0	0.0			1028
1030	CAIRS(1)	ACAD	Intro to T&R	B	*	(N)	G	0	0.0			1030
1032	CAIRS(1)	ACAD	Info Security	B	*	(N)	G	0	0.0			1032
1034	CAIRS(1)	ACAD	MACCS basic Rdr	B	*	(N)	G	0	0.0			1034
1036	CAIRS(1)	ACAD	AC2 in the Joint	B	*	(N)	G	0	0.0			1036
1038	CAIRS(1)	ACAD	Threats to MAGTF	B	*	(N)	G	0	0.0			1038
Air School (AIRS(1)) (AIRS(1)) Stage												
1118	AIRS(1)	ACAD	DASC Ops Threats	B	*	(N)	G	0	0.0			1118
1120	AIRS(1)	ACAD	Operations Documents	B	*	(N)	G	0	0.0			1120
1124	AIRS(1)	ACAD	Air Comm Equip	B	*	(N)	G	0	0.0			1124
1126	AIRS(1)	ACAD	Char/Lims of CAC2S	B	*	(N)	G	0	1.5			
1128	AIRS(1)	ACAD	Use CAC2S	B	*	(N)	G	0	0.0			1128
1130	AIRS(1)	ACAD	Info Security	B	*	(N)	G	0	0.0			1130
1132	AIRS(1)	ACAD	Plot Air Support Inf	B	*	(N)	G	0	0.0			1132
1134	AIRS(1)	ACAD	Air Sup Requests	B	*	(N)	G	0	0.0			1134
1136	AIRS(1)	ACAD	TDF	B	*	(N)	G	0	0.0			1136

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
1144	AIRS(1)	ACAD	TBMCS	B	*	(N)	G	0	0.0			1144
1152	AIRS(1)	ACAD	Perform as TAD	B	*	(N)	G	0	0.0			1152
1154	AIRS(1)	ACAD	Perform as HD	B	*	(N)	G	0	0.0			1154
2000 PHASE - Core												
Academics (ACAD(2)) ACAD(2) Core Skill												
2055	ACAD(2)	ACAD	Describe ACM/FSCM	B	*	(N)	G	0	1.0			2055
2060	ACAD(2)	ACAD	Weather Reports	B	*	(N)	G	0	1.0			2060
2065	ACAD(2)	ACAD	Aviation Ordnance	B, R, M	1095	(N)	G	0	1.0			2065
2070	ACAD(2)	ACAD	RSOP considerations	B	*	(N)	G	0	1.0			2070
2075	ACAD(2)	ACAD	Targeting Cycle	B	*	(N)	G	0	2.0			2075
2080	ACAD(2)	ACAD	Amphib Ships	B	*	(N)	G	0	1.0			2080
2085	ACAD(2)	ACAD	Config of FSOC/TACP	B	*	(N)	G	0	1.0			2085
2090	ACAD(2)	ACAD	Describe DAS, SCAR, & KB	B	*	(N)	G	0	1.0			
Communications (COMM(2)) COMM(2) Core Skill												
2100	COMM(2)	LIVE	Pacific Cypher Sys	B	*	(N)	L/S	0	1.0			2100
2115	COMM(2)	LIVE	Desc MASS Radios	B	*	(N)	L/S	0	1.0			2115
2120	COMM(2)	LIVE	Use Portable Radio	B, R, M	730	(N)	L/S	0	1.0			
2130	COMM(2)	LIVE	ID Comm Problems	B	*	(N)	L/S	0	2.0			2130
2135	COMM(2)	LIVE	Describe RxTx station	B	*	(N)	L/S	0	2.0			
Equipment (EQUIP(2)) EQUIP(2) Core Skill												
2155	EQUIP(2)	LIVE	OPFAC	B, R, M	365	(N)	L	0	1.5			2155
2160	EQUIP(2)	ACAD	MT/UT Equip	B	*	(N)	G	0	1.0			
Extension (EXT(2)) EXT(2) Core Skill												
2200	EXT(2)	LIVE	Brief GCE Scheme	B, R, M	1095	(N)	L/S	0	1.0			2200
2205	EXT(2)	LIVE	Purpose/Lims of ASE	B	*	(N)	L/S	0	1.0			2205
2210	EXT(2)	ACAD	Desc Naval C2	B	*	(N)	G	0	1.0			
2215	EXT(2)	LIVE	Purpose/Lims of ASLT	B	*	(N)	L/S	0	1.0			2215
DASC OIC (DOIC(2)) DOIC(2) Core Skill												
2300	DOIC(2)	LIVE	DASC Drill	B	*	(N)	L/S	0	80.0			2300
2305	DOIC(2)	LIVE	DASC Site Selection	B, R, M	730	(N)	L/S	0	1.5			2305
2310	DOIC(2)	LIVE	DASC Displacement Op	B	*	(N)	L/S	0	1.5			2310
2315	DOIC(2)	LIVE	DASC Requirements	B	*	(N)	L/S	0	2.0			2315
2320	DOIC(2)	LIVE	Dev Load Plan	B	*	(N)	L/S	0	2.0			2320

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
2325	DOIC(2)	LIVE	Phasing Ctrl Ashore	B	*	(N)	L/S	0	2.0			2325
Procedural Control (CTRL(2)) CTRL(2) Core Skill												
2240	CTRL(2)	LIVE	Execution Checklist	B	*	(N)	L/S	0	1.0			2240
2405	CTRL(2)	LIVE	CBRN Enviro	B	*	(N)	L/S	0	4.0			2405
2410	CTRL(2)	SIM	Digital Air Ctrl	B, R, M	1095	(N)	S/L	0	4.0			4200
2415	CTRL(2)	LIVE	Control A/C	B, R, M	730	(N)	L/S	0	4.0			2415
2420	CTRL(2)	SIM	Deep Air Ops	B, R, M	1095	(N)	S/L	0	6.0			
Senior Air Director (SAD(2)) SAD(2) Core Skill												
2350	FAM(2)	LIVE	Observe TACP	B	*	(N)	L	0	1.0			2350
2355	FAM(2)	LIVE	Observe TACC.	B	*	(N)	L	0	1.0			2355
2365	FAM(2)	LIVE	Observe an FSCC	B	*	(N)	L	0	1.0			2365
2370	FAM(2)	LIVE	Observe TAOC	B	*	(N)	L	0	1.0			2370
2375	FAM(2)	LIVE	Observe ATC Facility	B	*	(N)	L	0	1.0			2375
2380	FAM(2)	LIVE	LAAD	B	*	(N)	L	0	1.0			2380
2460	SAD(2)	LIVE	Intro SAD Duties	B	*	(N)	L/S	0	1.0			2460
2465	SAD(2)	LIVE	Match A/C w/Request	B, R, M	1095	(N)	L/S	0	4.0			2465
2470	SAD(2)	LIVE	Prioritize Comm	B	*	(N)	L/S	0	1.0			2470
2475	SAD(2)	LIVE	Extract Critical Inf	B	*	(N)	L/S	0	4.0			2475
Tactical Data Link (TDL(2)) TDL(2) Core Skill												
2800	TDL(2)	ACAD	Docs for TADL Ops	B	*	(N)	G	0	1.0			2800
2803	TDL(2)	ACAD	DASC Voice and Data	B, R, M	1095	(N)	G	0	1.0			2803
2807	TDL(2)	ACAD	Joint TDS msn/capab	B	*	(N)	G	0	2.0			4807
2808	TDL(2)	ACAD	Joint Data Network	B	*	(N)	G	0	1.0			2808
2809	TDL(2)	ACAD	MTDL Interface	B	*	(N)	G	0	2.0			2809
2810	TDL(2)	ACAD	ID IU catagories	B	*	(N)	G	0	2.0			4810
2811	TDL(2)	ACAD	ID Basic Track Info	B	*	(N)	G	0	2.0			2811
2812	TDL(2)	ACAD	ID Info in J-Series	B	*	(N)	G	0	2.0			2812
2814	TDL(2)	ACAD	State Char of Link16	B	*	(N)	G	0	2.0			2814
2817	TDL(2)	ACAD	Descr Data Filters	B	*	(N)	G	0	3.0			2817
2818	TDL(2)	ACAD	Charact of Link 16	B	*	(N)	G	0	3.0			2818
2819	TDL(2)	ACAD	Charact of JREAP	B	*	(N)	G	0	2.0			2819
2820	TDL(2)	ACAD	OPTASK LINK	B	*	(N)	G	0	2.0			2820
2821	TDL(2)	ACAD	Purp Inter Coord Pro	B	*	(N)	G	0	1.0			2821

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
2822	TDL(2)	ACAD	ICO Respons	B	*	(N)	G	0	1.0			4822
2823	TDL(2)	ACAD	Character of VMF	B	*	(N)	G	0	1.0			2823
Command & Control System (C2SYS(2)) C2SYS(2) Core Skill												
2900	C2SYS(2)	ACAD	Setup Profile TBMCS	B	*	(N)	G	0	0.5			2900
2910	C2SYS(2)	ACAD	Use ESTAT	B	*	(N)	G	0	2.0			2910
2911	C2SYS(2)	ACAD	Use WARP	B	*	(N)	G	0	4.0			2911
2920	C2SYS(2)	ACAD	Operate AFATDS	B	*	(N)	G	0	4.0			2920
2923	C2SYS(2)	LIVE	TDF Webportal	B, R, M	365	(N)	L/S	0	1.5			
2926	C2SYS(2)	ACAD	PDSS BM Functions	B, R, M	365	(N)	G	0	4.0			
2928	C2SYS(2)	ACAD	PDSS Control Functions	B	*	(N)	G	0	4.0			
2940	C2SYS(2)	ACAD	Use Tactical Chat	B	*	(N)	G	0	1.0			2940
3000 PHASE - Mission												
Helicopter Director (HD(3)) HD(3) Mission Skill												
3000	HD(3)	LIVE	Basic RW Ctrl	B	*	(N)	L/S	0	10.0			3000
3005	HD(3)	LIVE	Advanced RW Ctrl	B, R, M	1095	(N)	L/S	0	10.0			3005
Tactical Air Director (TAD(3)) TAD(3) Mission Skill												
3100	TAD(3)	LIVE	Basic FW Ctrl	B	*	(N)	L/S	0	10.0			3100
3105	TAD(3)	LIVE	Advanced FW Ctrl	B, R, M	1095	(N)	L/S	0	10.0			3105
2420	CTRL(2)	SIM										
Senior Air Director (SAD(3)) SAD(3) Mission Skill												
3150	SAD(3)	LIVE	Coord Deep Fires	B	*	(N)	L/S	0	1.0			3150
3200	SAD(3)	LIVE	Basic SAD	B	*	(N)	L/S	0	10.0			3200
3205	SAD(3)	LIVE	Advanced SAD	B, R, M	1095	(N)	L/S	0	10.0			3205
3225	SAD(3)	LIVE	Manage DASC Ext	B	*	(N)	L/S	0	4.0			3225
3235	SAD(3)	LIVE	GMLRS / ATACMS	B	*	(N)	L/S	0	4.0			3235
3455	SAD(3)	LIVE	Echelon SAD	B	*	(N)	L/S	0	4.0			3455
Air Support Liason Team (ASLT(3)) ASLT(3) Mission Skill												
3300	ASLT(3)	LIVE	ASLT OIC	B, R, M	1095	(N)	L/S	0	4.0			3300
Air Support Element (ASE(3)) ASE(3) Mission Skill												
3350	ASE(3)	LIVE	ASE OPS	B, R, M	1095	(N)	L/S	0	4.0			3350
DASC OIC (DOIC(3)) DOIC(3) Mission Skill												
3400	DOIC(3)	LIVE	DASC OIC	B, R, M	1095	(N)	L	0	120.0			3400
Controller (CTRL(3)) CTRL(3) Mission Skill												

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
3500	CTRL(3)	LIVE	Ctrl Aircraft	B, R, M	1095	(N)	L/S	0	12.0			3500
4000 PHASE - Core Plus												
Air Support Element (ASE(4)) ASE(4) Core Plus Skill												
4100	ASE(4)	LIVE	ASE Ops Amphibious	B, R, M	1095	(N)	L/S	0	4.0			4100
4255	ACAD (4)	ACAD	Composite Warfare	B	*	(N)	G	0	1.0			
4260	ACAD (4)	ACAD	Describe AOMSW	B, R, M	730	(N)	G	0	1.0			
4305	FAM(4)	LIVE	MMT	B	*	(N)	L	0	1.0			4305
4310	FAM(4)	LIVE	SACC	B	*	(N)	L	0	1.0			4310
4315	FAM(4)	LIVE	NTACC	B	*	(N)	L	0	1.0			4315
4500 PHASE - Mission Plus												
Tactical Data Link (TDL(4)) TDL(4) Mission Plus Skill												
4825	TDL(4)	ACAD	Charact CEC	B	*	(N)	G	0	1.0			4826
4830	TDL(4)	LIVE	Oper ADSI	B, R, M	730	(N)	L	0	2.0			4830
4836	TDL(4)	LIVE	Oper Link 16	B	*	(N)	L	0	8.0			4836
4840	TDL(4)	LIVE	Oper JREAP B	B	*	(N)	L	0	8.0			4840
4842	TDL(4)	LIVE	Oper JREAP C	B	*	(N)	L	0	8.0			4842
Command & Control System (C2SYS(4)) C2SYS(4) Mission Plus Skill												
4904	C2SYS(4)	ACAD	Web Mapping	B	*	(N)	G	0	1.0			4904
4905	C2SYS(4)	ACAD	Use AATWEB	B	*	(N)	G	0	1.0			4905
4906	C2SYS(4)	ACAD	Use WEBAD	B	*	(N)	G	0	4.0			4906
4907	C2SYS(4)	ACAD	Generate BM Reports	B	*	(N)	G	0	1.0			4907
4908	C2SYS(4)	ACAD	Use ABIM	B	*	(N)	G	0	1.0			4908
4909	C2SYS(4)	ACAD	Use FSTAT for FrOB	B	*	(N)	G	0	2.0			4909
4912	C2SYS(4)	ACAD	Use EMR	B	*	(N)	G	0	4.0			4912
4913	C2SYS(4)	ACAD	Import airspace grp	B	*	(N)	G	0	4.0			4913
4914	C2SYS(4)	ACAD	Create ABP Shell	B	*	(N)	G	0	4.0			4914
4915	C2SYS(4)	ACAD	Create Ground tgts	B	*	(N)	G	0	2.0			4915
4916	C2SYS(4)	ACAD	Create missions	B	*	(N)	G	0	4.0			4916
4917	C2SYS(4)	ACAD	Publish ATO	B	*	(N)	G	0	1.0			4917
4921	C2SYS(4)	ACAD	Operate C2PC	B	*	(N)	G	0	4.0			2921
4924	C2SYS(4)	ACAD	Operate JADOCs	B, R, M	730	(N)	G	0	1.0			4924
4941	C2SYS(4)	ACAD	WDS	B	*	(N)	G	0	4.0			4941
Controller (CTRL(4)) CTRL(4) Mission Plus Skill												

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
4505	CTRL (45)	LIVE	CTRL ISO AOMSW	B, R, M	365	(N)	L/S	0	2.0			
4255	ACAD (4)	ACAD										
4260	ACAD (4)	ACAD										
4305	FAM(4)	LIVE										
4310	FAM(4)	LIVE										
4315	FAM(4)	LIVE										
5000 PHASE - Instructor Training												
Basic Instructor (BI(5)) (BI(5)) Stage												
5000	BI(5)	ACAD	Principles of Inst	B	*	(N)	G	0	2.0			5000
5010	BI(5)	ACAD	Structure of Event	B	*	(N)	G	0	2.0			5010
5020	BI(5)	LIVE	Inst T&R Event	B, R, M	90	(N)	L	0	12.0			5020
Senior Instructor (SI(5)) (SI(5)) Stage												
5100	SI(5)	ACAD	T&R Program	B	*	(N)	G	0	2.0			5100
5110	SI(5)	LIVE	Instructor Evals	B, R	365	(N)	L	0	4.0			5110
5120	SI(5)	LIVE	T&R Administration	B	*	(N)	L	0	2.0			5120
5130	SI(5)	LIVE	Dev Trng Plan	B	*	(N)	L	0	2.0			5130
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)												
School Codes (SCHL(6)) (SCHL(6)) Stage												
6000	SCHL(6)	ACAD	WTI Crse	B	*	(N)	G	0	0.5			6000
6001	SCHL(6)	ACAD	SWO Crse	B	*	(N)	G	0	0.5			6001
6002	SCHL(6)	ACAD	AC2O Crse	B	*	(N)	G	0	0.5			6002
6003	SCHL(6)	ACAD	ATOD Crse	B	*	(N)	G	0	0.5			6003
6010	SCHL(6)	ACAD	Airspace Course	B	*	(N)	G	0	0.5			6010
6011	SCHL(6)	ACAD	PRC	B	*	(N)	G	0	0.5			6011
6012	SCHL(6)	ACAD	Plans/Ops Tech Crse	B	*	(N)	G	0	0.5			6012
6015	SCHL(6)	ACAD	JAOC2C	B	*	(N)	G	0	0.5			6015
6016	SCHL(6)	ACAD	JAO Senior Staff	B	*	(N)	G	0	0.5			6016
6020	SCHL(6)	ACAD	Link16 Basic (JT-100)	B	*	(N)	G	0	0.5			6020
6021	SCHL(6)	ACAD	Intro to MTDL (JT101)	B	*	(N)	G	0	0.5			6021
6022	SCHL(6)	ACAD	MAJIC (JT102)	B	*	(N)	G	0	0.5			6022
6024	SCHL(6)	ACAD	MTDL Planner (JT201)	B	*	(N)	G	0	0.5			6024
6025	SCHL(6)	ACAD	LUM (JT220)	B	*	(N)	G	0	0.5			6025
6026	SCHL(6)	ACAD	JICO (JT301)	B	*	(N)	G	0	0.5			6026

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
6027	SCHL(6)	ACAD	Adv JICC (JT310)	B	*	(N)	G	0	0.5			6027
6067	SCHL(6)	ACAD	MAM Crse	B	*	(N)	G	0	0.5			6067
6082	SCHL(6)	ACAD	Joint Firepower Crse	B	*	(N)	G	0	0.5			6082
6096	SCHL(6)	ACAD	Instructor Dev Crse	B	*	(N)	G	0	0.5			6096
6106	SCHL(6)	ACAD	Amphib Air Ops	B	*	(N)	G	0	0.5			
6107	SCHL(6)	ACAD	Amphib Warfare Indoc	B	*	(N)	G	0	0.5			
6108	SCHL(6)	ACAD	Intermediate Amphib Ops	B	*	(N)	G	0	0.5			
6109	SCHL(6)	ACAD	SACC	B	*	(N)	G	0	0.5			
6110	SCHL(6)	ACAD	ASTAC/SCAC	B	*	(N)	G	0	0.5			
6111	SCHL(6)	ACAD	JMTC	B	*	(N)	G	0	0.5			
Qualifications (QUAL(6)) (QUAL(6)) Stage												
6230	QUAL(6)	ACAD	HD	B	*	(N)	G	0	0.5			6230
6235	QUAL(6)	ACAD	TAD	B	*	(N)	G	0	0.5			6235
6240	QUAL(6)	LIVE	SAD	B	*	(N)	L	0	2.0			6240
6245	QUAL(6)	ACAD	ASLT OIC	B	*	(N)	G	0	0.5			6245
6250	QUAL(6)	ACAD	ASE OIC	B	*	(N)	G	0	0.5			6250
6255	QUAL(6)	ACAD	Qual as Controller	B	*	(N)	G	0	0.5			6255
Designations (DESG(6)) (DESG(6)) Stage												
6300	DESG(6)	ACAD	DASC OIC	B	*	(N)	G	0	0.5			6300
6320	DESG(6)	ACAD	BI	B	*	(N)	G	0	0.5			6320
6321	DESG(6)	ACAD	SI	B	*	(N)	G	0	0.5			6321
6322	DESG(6)	ACAD	WTI	B	*	(N)	G	0	0.5			6322
6325	DESG(6)	ACAD	FLCI	B	*	(N)	G	0	0.5			6325
Certifications (CERT(6)) (CERT(6)) Stage												
6500	CERT(6)	LIVE	Cond M2 firing	B	*	(N)	L	0	3.0			6500
6505	CERT(6)	LIVE	Cond M240 firing	B	*	(N)	L	0	3.0			6505
6510	CERT(6)	LIVE	Cond M1014 firing	B	*	(N)	L	0	3.0			6510
7000 PHASE - MET												
Mission Essential Task (MET(7)) (MET(7)) Stage												
7001	MET(7)	LIVE	Airspace Management	B, R, M	730	(N)	L/S	0	3.0	X		
7002	MET(7)	LIVE	Process Requests	B, R, M	730	(N)	L/S	0	3.0	X		7400
7003	MET(7)	LIVE	Echelon	B, R, M	730	(N)	L/S	0	3.0	X		
7004	MET(7)	LIVE	Procedural Control.	B, R, M	730	(N)	L/S	0	3.0	X		

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
7005	MET(7)	LIVE	Aviation, Fires, Effects	B, R, M	730	(N)	L/S	0	3.0	X		
7006	MET(7)	LIVE	AOMSW	B, R, M	730	(N)	L/S	0	3.0	X		
8000 PHASE - ACPM												
Aviation Career Progression Model (ACPM(8)) (ACPM(8)) Stage												
8000	ACPM(8)	ACAD	MACCS Module	B	*	(N)	G	0	1.0			8000
8001	ACPM(8)	ACAD	MACCS	B	*	(N)	G	0	4.0			8001
8002	ACPM(8)	ACAD	TACC	B	*	(N)	G	0	4.0			8002
8003	ACPM(8)	ACAD	DASC	B	*	(N)	G	0	4.0			8003
8004	ACPM(8)	ACAD	TAOC	B	*	(N)	G	0	4.0			8004
8005	ACPM(8)	ACAD	MATC	B	*	(N)	G	0	4.0			8005
8006	ACPM(8)	ACAD	LAAD	B	*	(N)	G	0	4.0			8006
8008	ACPM(8)	ACAD	MWCS	B	*	(N)	G	0	4.0			8008
8020	ACPM(8)	ACAD	ACE Module	B	*	(N)	G	0	1.0			8020
8021	ACPM(8)	ACAD	Aviation Ops	B	*	(N)	G	0	4.0			8021
8022	ACPM(8)	ACAD	CTRL of A/C & Missil	B	*	(N)	G	0	4.0			8022
8023	ACPM(8)	ACAD	OAS	B	*	(N)	G	0	4.0			8023
8024	ACPM(8)	ACAD	Assault Support	B	*	(N)	G	0	4.0			8024
8025	ACPM(8)	ACAD	Aerial Recon	B	*	(N)	G	0	4.0			8025
8026	ACPM(8)	ACAD	Electronic Warfare	B	*	(N)	G	0	4.0			8026
8027	ACPM(8)	ACAD	Anti-Air Warfare	B	*	(N)	G	0	4.0			8027
8028	ACPM(8)	ACAD	Aviation Grd Supp	B	*	(N)	G	0	4.0			8028
8040	ACPM(8)	ACAD	Threat Module	B	*	(N)	G	0	1.0			8040
8041	ACPM(8)	ACAD	S to A Threat	B	*	(N)	G	0	4.0			8041
8042	ACPM(8)	ACAD	Fixed Wing Threat	B	*	(N)	G	0	4.0			8042
8043	ACPM(8)	ACAD	Rotary Wing Threat	B	*	(N)	G	0	4.0			8043
8044	ACPM(8)	ACAD	Missile & UAS Threat	B	*	(N)	G	0	4.0			8044
8060	ACPM(8)	ACAD	MAGTF Module	B	*	(N)	G	0	1.0			8060
8061	ACPM(8)	ACAD	Grd Combat Ops	B	*	(N)	G	0	4.0			8061
8062	ACPM(8)	ACAD	Fire Support in GCE	B	*	(N)	G	0	4.0			8062
8063	ACPM(8)	ACAD	MAGTF C2	B	*	(N)	G	0	4.0			8063
8064	ACPM(8)	ACAD	MAGTF Comm	B	*	(N)	G	0	4.0			8064
8065	ACPM(8)	ACAD	Phasing Ctrl Ashore	B	*	(N)	G	0	4.0			8065
8066	ACPM(8)	ACAD	Information Manageme	B	*	(N)	G	0	4.0			8066

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
8067	ACPM(8)	ACAD	UAS Spt to the MAGTF	B	*	(N)	G	0	4.0			8067
8080	ACPM(8)	ACAD	Joint Air Ops Module	B	*	(N)	G	0	1.0			8080
8081	ACPM(8)	ACAD	C2 Joint Air Ops	B	*	(N)	G	0	4.0			8081
8082	ACPM(8)	ACAD	TAGS	B	*	(N)	G	0	4.0			8082
8083	ACPM(8)	ACAD	Joint Fire Support	B	*	(N)	G	0	4.0			8083
8084	ACPM(8)	ACAD	CAS	B	*	(N)	G	0	4.0			8084
8085	ACPM(8)	ACAD	Joint Targeting	B	*	(N)	G	0	4.0			8085
8086	ACPM(8)	ACAD	NATO	B	*	(N)	G	0	4.0			8086
8087	ACPM(8)	ACAD	Joint Airspace Ctrl	B	*	(N)	G	0	4.0			8087
8088	ACPM(8)	ACAD	Counter Air & Missil	B	*	(N)	G	0	4.0			8088

3.25.2 T&R Prerequisites, Chaining & Mirroring Matrix

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
1000 PHASE - Core Introduction										
	CAIRS(1)	1000	Fund AC2 Employ	*	(N)	G			FLCI	
	CAIRS(1)	1002	Comp MAGTF Ops	*	(N)	G			FLCI	
	CAIRS(1)	1004	Charact AC2	*	(N)	G				
	CAIRS(1)	1006	Hand/Stor Classified	*	(N)	G			FLCI	
	CAIRS(1)	1008	Identify AGS	*	(N)	G			FLCI	
	CAIRS(1)	1010	Intro MACCS equip	*	(N)	G			FLCI	
	CAIRS(1)	1012	Charact aircraft	*	(N)	G			FLCI	
	CAIRS(1)	1014	Comp of air picture	*	(N)	G			FLCI	
	CAIRS(1)	1016	ID oper graphics	*	(N)	G			FLCI	
	CAIRS(1)	1018	Elements of IADS	*	(N)	G				
	CAIRS(1)	1020	MAGTF Comm Sys	*	(N)	G			FLCI	
	CAIRS(1)	1022	Elem info exchange	*	(N)	G			FLCI	
	CAIRS(1)	1024	Six functions	*	(N)	G			FLCI	
	CAIRS(1)	1026	Space, Nav, Time	*	(N)	G			FLCI	
	CAIRS(1)	1028	WX in the MACCS	*	(N)	G			FLCI	
	CAIRS(1)	1030	Intro to T&R	*	(N)	G			FLCI	
	CAIRS(1)	1032	Info Security	*	(N)	G			FLCI	
	CAIRS(1)	1034	MACCS basic Rdr	*	(N)	G			FLCI	
	CAIRS(1)	1036	AC2 in the Joint	*	(N)	G			FLCI	
	CAIRS(1)	1038	Threats to MAGTF	*	(N)	G			FLCI	
	AIRS(1)	1118	DASC Ops Threats	*	(N)	G			FLCI	
	AIRS(1)	1120	Operations Documents	*	(N)	G			FLCI	
	AIRS(1)	1124	Air Comm Equip	*	(N)	G			FLCI	
	AIRS(1)	1126	Char/Lims of CAC2S	*	(N)	G	2115~(N), G		BI	
	AIRS(1)	1128	Use CAC2S	*	(N)	G			FLCI	
	AIRS(1)	1130	Info Security	*	(N)	G			FLCI	
	AIRS(1)	1132	Plot Air Support Inf	*	(N)	G			FLCI	
	AIRS(1)	1134	Air Sup Requests	*	(N)	G			FLCI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	AIRS(1)	1136	TDF	*	(N)	G			FLCI	
	AIRS(1)	1144	TBMCS	*	(N)	G			FLCI	
	AIRS(1)	1152	Perform as TAD	*	(N)	G			FLCI	
	AIRS(1)	1154	Perform as HD	*	(N)	G			FLCI	
2000 PHASE - Core										
ACAD(2)	ACAD(2)	2055	Describe ACM/FSCM	*	(N)	G			BI	TACC AC2O (72XX) 2061
ACAD(2)	ACAD(2)	2060	Weather Reports	*	(N)	G			BI	
ACAD(2)	ACAD(2)	2065	Aviation Ordnance	1095	(N)	G			BI	TACC AC2O (72XX) 2065
ACAD(2)	ACAD(2)	2070	RSOP considerations	*	(N)	G			BI	
ACAD(2)	ACAD(2)	2075	Targeting Cycle	*	(N)	G			BI	
ACAD(2)	ACAD(2)	2080	Amphib Ships	*	(N)	G			BI	
ACAD(2)	ACAD(2)	2085	Config of FSCC/TACP	*	(N)	G			BI	
ACAD(2)	ACAD(2)	2090	Describe DAS, SCAR, & KB	*	(N)	G			BI	
COMM(2)	COMM(2)	2100	Pacific Cypher Sys	*	(N)	L/S			BI	TACC AC2O (72XX) 2010
COMM(2)	COMM(2)	2115	Desc MASS Radios	*	(N)	L/S			BI	
COMM(2)	COMM(2)	2120	Use Portable Radio	730	(N)	L/S	2100~(N), L/S and; 2115~(N), L/S		BI	TACC AC2O (72XX) 2011
COMM(2)	COMM(2)	2130	ID Comm Problems	*	(N)	L/S	2100~(N), L/S and; 2115~(N), L/S		BI	TACC AC2O (72XX) 2011
COMM(2)	COMM(2)	2135	Describe RxTx station	*	(N)	L/S			BI	TACC AC2O (72XX) 2011
EQUIP(2)	EQUIP(2)	2155	OPFAC	365	(N)	L			BI	
EQUIP(2)	EQUIP(2)	2160	MT/UT Equip	*	(N)	G			BI	
EXT(2)	EXT(2)	2200	Brief GCE Scheme	1095	(N)	L/S	2055~(N), L/S and; 2065~(N), L/S and; 2075~(N), L/S and; 2085~(N), L/S and; 2090~(N), L/S and; 8000~(N), L/S and; 8020~(N), L/S and; 8060~(N), L/S		BI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
EXT(2)	EXT(2)	2205	Purpose/Lims of ASE	*	(N)	L/S	2060~(N), L/S and; 2070~(N), L/S and; 2075~(N), L/S and; 2085~(N), L/S and; 2090~(N), L/S and; 2115~(N), L/S and; 8000~(N), L/S and; 8020~(N), L/S and; 8060~(N), L/S		BI	
EXT(2)	EXT(2)	2210	Desc Naval C2	*	(N)	G	2055~(N), G and; 2065~(N), G and; 2075~(N), G and; 2080~(N), G and; 2085~(N), G and; 2090~(N), G and; 8000~(N), G and; 8020~(N), G and; 8060~(N), G		BI	
EXT(2)	EXT(2)	2215	Purpose/Lims of ASLT	*	(N)	L/S	2055~(N), L/S and; 2065~(N), L and; 2070~(N), L and; 2075~(N), L and; 2085~(N), L and; 2115~(N), L/S and; 8000~(N), L and; 8020~(N), L and; 8060~(N), L		BI	
CTRL(2)	CTRL(2)	2240	Execution Checklist	*	(N)	L/S			BI	
CTRL(2)	CTRL(2)	2405	CBRN Enviro	*	(N)	L/S			BI	TACC AC2O (72XX) 3043
CTRL(2)	CTRL(2)	2410	Digital Air Ctrl	1095	(N)	S/L	2800~(N), S/L and; 2803~(N), S/L and; 2811~(N), S/L and; 2812~(N), S/L and; 2817~(N), S/L and; 2818~(N), S/L and; 2820~(N), S/L and; 6255~(N), S/L		BI	
CTRL(2)	CTRL(2)	2415	Control A/C	730	(N)	L/S			BI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
CTRL(2), TAD(3)	CTRL(2)	2420	Deep Air Ops	1095	(N)	S/L	2090~(N), S/L		BI	
DOIC(2)	DOIC(2)	2300	DASC Drill	*	(N)	L/S	6240~(N), L		WTI	
DOIC(2)	DOIC(2)	2305	DASC Site Selection	730	(N)	L/S	6230~(N), L/S and; 6235~(N), L		SI	
DOIC(2)	DOIC(2)	2310	DASC Displacement Op	*	(N)	L/S	6240~(N), L		SI	
DOIC(2)	DOIC(2)	2315	DASC Requirements	*	(N)	L/S	6240~(N), L		SI	
DOIC(2)	DOIC(2)	2320	Dev Load Plan	*	(N)	L/S	6240~(N), L		SI	
DOIC(2)	DOIC(2)	2325	Phasing Ctrl Ashore	*	(N)	L/S	6240~(N), L		SI	
SAD(2)	FAM(2)	2350	Observe TACP	*	(N)	L			BI	
SAD(2)	FAM(2)	2355	Observe TACC.	*	(N)	L			BI	
SAD(2)	FAM(2)	2365	Observe an FSCC	*	(N)	L			BI	
SAD(2)	FAM(2)	2370	Observe TAOC	*	(N)	L			BI	
SAD(2)	FAM(2)	2375	Observe ATC Facility	*	(N)	L			BI	
SAD(2)	FAM(2)	2380	LAAD	*	(N)	L			BI	
SAD(2)	SAD(2)	2460	Intro SAD Duties	*	(N)	L/S	6230~(N), L/S and; 6235~(N), L/S		SI	
SAD(2)	SAD(2)	2465	Match A/C w/Request	1095	(N)	L/S	6230~(N), L/S and; 6235~(N), L		SI	TACC AC2O (72XX) 3090
SAD(2)	SAD(2)	2470	Prioritize Comm	*	(N)	L/S	6230~(N), L/S and; 6235~(N), L/S		SI	
SAD(2)	SAD(2)	2475	Extract Critical Inf	*	(N)	L/S	6230~(N), L/S and; 6235~(N), L/S		SI	
TDL(2)	TDL(2)	2800	Docs for TADL Ops	*	(N)	G				
TDL(2)	TDL(2)	2803	DASC Voice and Data	1095	(N)	G				
TDL(2)	TDL(2)	2807	Joint TDS msn/capab	*	(N)	G				TACC AC2O (72XX) 2807
TDL(2)	TDL(2)	2808	Joint Data Network	*	(N)	G				
TDL(2)	TDL(2)	2809	MTDL Interface	*	(N)	G				
TDL(2)	TDL(2)	2810	ID IU catagories	*	(N)	G				TACC AC2O (72XX) 2810
TDL(2)	TDL(2)	2811	ID Basic Track Info	*	(N)	G				

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
TDL(2)	TDL(2)	2812	ID Info in J-Series	*	(N)	G				
TDL(2)	TDL(2)	2814	State Char of Link16	*	(N)	G				
TDL(2)	TDL(2)	2817	Descr Data Filters	*	(N)	G				
TDL(2)	TDL(2)	2818	Charact of Link 16	*	(N)	G				
TDL(2)	TDL(2)	2819	Charact of JREAP	*	(N)	G				
TDL(2)	TDL(2)	2820	OPTASK LINK	*	(N)	G				
TDL(2)	TDL(2)	2821	Purp Inter Coord Pro	*	(N)	G				
TDL(2)	TDL(2)	2822	ICO Respons	*	(N)	G				TACC AC2O (72XX) 2822
TDL(2)	TDL(2)	2823	Character of VMF	*	(N)	G				
C2SYS(2)	C2SYS(2)	2900	Setup Profile TBMCS	*	(N)	G				
C2SYS(2)	C2SYS(2)	2910	Use ESTAT	*	(N)	G				
C2SYS(2)	C2SYS(2)	2911	Use WARP	*	(N)	G				
C2SYS(2)	C2SYS(2)	2920	Operate AFATDS	*	(N)	G				
C2SYS(2)	C2SYS(2)	2923	TDF Webportal	365	(N)	L/S			BI	
C2SYS(2)	C2SYS(2)	2926	PDSS BM Functions	365	(N)	G			BI	
C2SYS(2)	C2SYS(2)	2928	PDSS Control Functions	*	(N)	G			BI	
C2SYS(2)	C2SYS(2)	2940	Use Tactical Chat	*	(N)	G				
3000 PHASE - Mission										
HD(3)	HD(3)	3000	Basic RW Ctrl	*	(N)	L/S	6255~(N), L/S and; 8000~(N), L/S and; 8020~(N), L/S		SI	
HD(3)	HD(3)	3005	Advanced RW Ctrl	1095	(N)	L/S	2055~(N), L/S and; 2060~(N), L/S and; 2065~(N), L/S and; 2075~(N), L/S and; 2080~(N), L/S and; 2085~(N), L/S and; 2090~(N), L/S and; 2100~(N), L/S and; 2130~(N), L/S and; 2135~(N), L/S and;	3500~(N), L/S	SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2155~(N), L/S and; 2240~(N), L/S and; 2405~(N), L/S and; 2800~(N), L/S and; 2803~(N), L/S and; 2807~(N), L/S and; 2808~(N), L/S and; 2809~(N), L/S and; 2810~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S and; 2821~(N), L/S and; 2823~(N), L/S and; 2923~(N), L/S and; 2926~(N), L/S and; 2928~(N), L/S and; 2940~(N), L/S and; 3000~(N), L/S and; 6255~(N), L/S and; 8040~(N), L/S and; 8060~(N), L/S			
TAD(3)	TAD(3)	3100	Basic FW Ctrl	*	(N)	L/S	6255~(N), L/S and; 8000~(N), L/S and; 8020~(N), L/S		SI	
TAD(3)	TAD(3)	3105	Advanced FW Ctrl	1095	(N)	L/S	2055~(N), L/S and; 2060~(N), L/S and; 2065~(N), L/S and; 2075~(N), L/S and; 2080~(N), L/S and; 2085~(N), L/S and; 2090~(N), L/S and; 2100~(N), L/S and; 2130~(N), L/S and; 2135~(N), L/S and; 2155~(N), L/S and; 2240~(N), L/S and; 2405~(N), L/S and;	3500~(N), L/S	SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2410~(N), L/S and; 2420~(N), L/S and; 2800~(N), L/S and; 2803~(N), L/S and; 2807~(N), L/S and; 2808~(N), L/S and; 2809~(N), L/S and; 2810~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S and; 2821~(N), L/S and; 2823~(N), L/S and; 2923~(N), L/S and; 2926~(N), L/S and; 2928~(N), L/S and; 2940~(N), L/S and; 3100~(N), L/S and; 6255~(N), L/S and; 8040~(N), L/S and; 8060~(N), L/S			
SAD(3)	SAD(3)	3150	Coord Deep Fires	*	(N)	L/S	2460~(N), L/S and; 2465~(N), L/S and; 2470~(N), L/S and; 2475~(N), L/S and; 6230~(N), L/S and; 6235~(N), L/S		SI	
SAD(3)	SAD(3)	3200	Basic SAD	*	(N)	L/S	2460~(N), L/S and; 2465~(N), L/S and; 2470~(N), L/S and; 2475~(N), L/S and; 6230~(N), L/S and; 6235~(N), L/S		SI	
SAD(3)	SAD(3)	3205	Advanced SAD	1095	(N)	L/S	3300~(N), L/S or 3350~(N), L/S and; 2135~(N), L/S and; 2350~(N), L and;	3005~(N), L/S and; 3105~(N), L/S and; 3300~(N), L/S and; 3350~(N), L/S and;	SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2355~(N), L and; 2365~(N), L and; 2370~(N), L and; 2375~(N), L and; 2380~(N), L and; 2808~(N), L/S and; 2809~(N), L/S and; 2814~(N), L/S and; 2819~(N), L/S and; 2821~(N), L/S and; 2823~(N), L/S and; 2900~(N), L/S and; 2910~(N), L/S and; 2911~(N), L/S and; 2920~(N), L/S and; 3150~(N), L/S and; 3200~(N), L/S and; 3225~(N), L/S and; 3235~(N), L/S and; 3455~(N), L/S and; 4921~(N), L/S and; 6230~(N), L/S and; 6235~(N), L/S and; 8080~(N), L/S	3500~(N), L/S		
SAD(3)	SAD(3)	3225	Manage DASC Ext	*	(N)	L/S	2205~(N), L/S and; 2215~(N), L/S and; 2460~(N), L/S and; 2465~(N), L/S and; 2470~(N), L/S and; 2475~(N), L/S and; 6230~(N), L/S and; 6235~(N), L/S		SI	
SAD(3)	SAD(3)	3235	GMLRS / ATACMS	*	(N)	L/S	2460~(N), L/S and; 2465~(N), L/S and; 2470~(N), L/S and; 2475~(N), L/S and; 6230~(N), L/S and; 6235~(N), L/S		SI	
SAD(3)	SAD(3)	3455	Echelon SAD	*	(N)	L/S	2460~(N), L/S and; 2465~(N), L/S and; 2470~(N), L/S and;		SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2475~(N), L/S and; 6230~(N), L/S and; 6235~(N), L/S			
ASLT(3)	ASLT(3)	3300	ASLT OIC	1095	(N)	L/S	2100~(N), L/S and; 2130~(N), L/S and; 2200~(N), L/S and; 2205~(N), L/S and; 2215~(N), L/S and; 2240~(N), L/S and; 2923~(N), L/S and; 6255~(N), L/S and; 8000~(N), L/S and; 8020~(N), L/S and; 8040~(N), L/S and; 8060~(N), L/S		SI	
ASE(3)	ASE(3)	3350	ASE OPS	1095	(N)	L/S	2100~(N), L/S and; 2130~(N), L/S and; 2135~(N), L/S and; 2200~(N), L/S and; 2205~(N), L/S and; 2215~(N), L/S and; 2240~(N), L/S and; 2923~(N), L/S and; 6255~(N), L/S and; 8000~(N), L/S and; 8020~(N), L/S and; 8040~(N), L/S and; 8060~(N), L/S		SI	
DOIC(3)	DOIC(3)	3400	DASC OIC	1095	(N)	L	2300~(N), L and; 2305~(N), L and; 2310~(N), L and; 2315~(N), L and; 2320~(N), L and; 2325~(N), L and; 6240~(N), L		SI	
CTRL(3)	CTRL(3)	3500	Ctrl Aircraft	1095	(N)	L/S	2415~(N), L/S		SI	
4000 PHASE - Core Plus										
ASE(4)	ASE(4)	4100	ASE Ops Amphibious	1095	(N)	L/S	2200~(N), L/S and; 2205~(N), L/S and; 2215~(N), L/S		BI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
CTRL(4), ASE(4)	ACAD (4)	4255	Composite Warfare	*	(N)	G			SI	
CTRL(4), ASE(4)	ACAD (4)	4260	Describe AOMSW	730	(N)	G	4255~(N), G		SI	
CTRL(4), ASE(4)	FAM(4)	4305	MMT	*	(N)	L			BI	
CTRL(4), ASE(4)	FAM(4)	4310	SACC	*	(N)	L			BI	
CTRL(4), ASE(4)	FAM(4)	4315	NTACC	*	(N)	L			BI	
4500 PHASE - Mission Plus										
CTRL(4)	CTRL (45)	4505	CTRL ISO AOMSW	365	(N)	L/S	4260~(N), L/S		SI	
TDL(4)	TDL(4)	4825	Charact CEC	*	(N)	G				
TDL(4)	TDL(4)	4830	Oper ADSI	730	(N)	L			SI	TACC AC2O (72XX) 3830
TDL(4)	TDL(4)	4836	Oper Link 16	*	(N)	L	2817~(N), L and; 2818~(N), L		SI	TACC AC2O (72XX) 3836
TDL(4)	TDL(4)	4840	Oper JREAP B	*	(N)	L	2819~(N), L		SI	TACC AC2O (72XX) 3840
TDL(4)	TDL(4)	4842	Oper JREAP C	*	(N)	L	2819~(N), L		SI	TACC AC2O (72XX) 3842
C2SYS(4)	C2SYS(4)	4904	Web Mapping	*	(N)	G				TACC AC2O (72XX) 2904
C2SYS(4)	C2SYS(4)	4905	Use AATWEB	*	(N)	G				TACC AC2O (72XX) 2905
C2SYS(4)	C2SYS(4)	4906	Use WEBAD	*	(N)	G				TACC AC2O (72XX) 2906
C2SYS(4)	C2SYS(4)	4907	Generate BM Reports	*	(N)	G				TACC AC2O (72XX) 2907
C2SYS(4)	C2SYS(4)	4908	Use ABIM	*	(N)	G				
C2SYS(4)	C2SYS(4)	4909	Use FSTAT for FrOB	*	(N)	G				
C2SYS(4)	C2SYS(4)	4912	Use EMR	*	(N)	G				TACC AC2O (72XX) 2912
C2SYS(4)	C2SYS(4)	4913	Import airspace grp	*	(N)	G				
C2SYS(4)	C2SYS(4)	4914	Create ABP Shell	*	(N)	G				

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
C2SYS(4)	C2SYS(4)	4915	Create Ground tgts	*	(N)	G				
C2SYS(4)	C2SYS(4)	4916	Create missions	*	(N)	G				
C2SYS(4)	C2SYS(4)	4917	Publish ATO	*	(N)	G				
C2SYS(4)	C2SYS(4)	4921	Operate C2PC	*	(N)	G				
C2SYS(4)	C2SYS(4)	4924	Operate JADOCS	730	(N)	G				
C2SYS(4)	C2SYS(4)	4941	WDS	*	(N)	G				TACC AC2O (72XX) 2941
5000 PHASE - Instructor Training										
	BI(5)	5000	Principles of Inst	*	(N)	G			SI	
	BI(5)	5010	Structure of Event	*	(N)	G			SI	
	BI(5)	5020	Inst T&R Event	90	(N)	L	5000~(N), L and; 5010~(N), L		SI	
	SI(5)	5100	T&R Program	*	(N)	G			SI	
	SI(5)	5110	Instructor Evals	365	(N)	L	5100~(N), L		SI	
	SI(5)	5120	T&R Administration	*	(N)	L	5100~(N), L and; 5110~(N), L		SI	
	SI(5)	5130	Dev Trng Plan	*	(N)	L	5100~(N), L and; 5110~(N), L and; 5120~(N), L		SI	
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)										
	SCHL(6)	6000	WTI Crse	*	(N)	G	6320~(N), G and; 6321~(N), G and; 8000~(N), G and; 8020~(N), G and; 8040~(N), G and; 8060~(N), G and; 8080~(N), G			
	SCHL(6)	6001	SWO Crse	*	(N)	G				
	SCHL(6)	6002	AC2O Crse	*	(N)	G				
	SCHL(6)	6003	ATOD Crse	*	(N)	G				
	SCHL(6)	6010	Airspace Course	*	(N)	G				
	SCHL(6)	6011	PRC	*	(N)	G				
	SCHL(6)	6012	Plans/Ops Tech Crse	*	(N)	G				
	SCHL(6)	6015	JAOC2C	*	(N)	G				
	SCHL(6)	6016	JAO Senior Staff	*	(N)	G				

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	SCHL(6)	6020	Link16 Basic (JT-100)	*	(N)	G				
	SCHL(6)	6021	Intro to MTDL (JT101)	*	(N)	G				
	SCHL(6)	6022	MAJIC (JT102)	*	(N)	G				
	SCHL(6)	6024	MTDL Planner (JT201)	*	(N)	G				
	SCHL(6)	6025	LUM (JT220)	*	(N)	G				
	SCHL(6)	6026	JICO (JT301)	*	(N)	G				
	SCHL(6)	6027	Adv JICC (JT310)	*	(N)	G				
	SCHL(6)	6067	MAM Crse	*	(N)	G				
	SCHL(6)	6082	Joint Firepower Crse	*	(N)	G				
	SCHL(6)	6096	Instructor Dev Crse	*	(N)	G				
	SCHL(6)	6106	Amphib Air Ops	*	(N)	G				
	SCHL(6)	6107	Amphib Warfare Indoc	*	(N)	G				
	SCHL(6)	6108	Intermediate Amphib Ops	*	(N)	G				
	SCHL(6)	6109	SACC	*	(N)	G				
	SCHL(6)	6110	ASTAC/SCAC	*	(N)	G				
	SCHL(6)	6111	JMTC	*	(N)	G				
	QUAL(6)	6230	HD	*	(N)	G	3005~(N), G			
	QUAL(6)	6235	TAD	*	(N)	G	3105~(N), G			
	QUAL(6)	6240	SAD	*	(N)	L	6245~(N), L <i>or</i> 6250~(N), L <i>and</i> ; 3205~(N), L <i>and</i> ; 6230~(N), L <i>and</i> ; 6235~(N), L		WTI	
	QUAL(6)	6245	ASLT OIC	*	(N)	G	3300~(N), G			
	QUAL(6)	6250	ASE OIC	*	(N)	G	6230~(N), G <i>or</i> 6235~(N), G <i>and</i> ; 3350~(N), G			
	QUAL(6)	6255	Qual as Controller	*	(N)	G	2415~(N), G <i>and</i> ; 3500~(N), G			
	DESG(6)	6300	DASC OIC	*	(N)	G	3400~(N), G			

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	DESG(6)	6320	BI	*	(N)	G	5000~(N), G and; 5010~(N), G and; 5020~(N), G			
	DESG(6)	6321	SI	*	(N)	G	5000~(N), G and; 5010~(N), G and; 5020~(N), G and; 5100~(N), G and; 5110~(N), G and; 5120~(N), G and; 5130~(N), G			
	DESG(6)	6322	WTI	*	(N)	G	6000~(N), G			
	DESG(6)	6325	FLCI	*	(N)	G	6096~(N), G			
	CERT(6)	6500	Cond M2 firing	*	(N)	L			BI	
	CERT(6)	6505	Cond M240 firing	*	(N)	L			BI	
	CERT(6)	6510	Cond M1014 firing	*	(N)	L			BI	
7000 PHASE - MET										
	MET(7)	7001	Airspace Management	730	(N)	L/S			WTI	
	MET(7)	7002	Process Requests	730	(N)	L/S			WTI	
	MET(7)	7003	Echelon	730	(N)	L/S			WTI	
	MET(7)	7004	Procedural Control.	730	(N)	L/S			WTI	
	MET(7)	7005	Aviation, Fires, Effects	730	(N)	L/S			WTI	
	MET(7)	7006	AOMSW	730	(N)	L/S			WTI	
8000 PHASE - ACPM										
	ACPM(8)	8000	MACCS Module	*	(N)	G	8001~(N), G and; 8002~(N), G and; 8003~(N), G and; 8004~(N), G and; 8005~(N), G and; 8006~(N), G and; 8008~(N), G			All ground syllabi
	ACPM(8)	8001	MACCS	*	(N)	G				All ground syllabi
	ACPM(8)	8002	TACC	*	(N)	G				All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8003	DASC	*	(N)	G				All ground syllabi
	ACPM(8)	8004	TAOC	*	(N)	G				All ground syllabi
	ACPM(8)	8005	MATC	*	(N)	G				All ground syllabi
	ACPM(8)	8006	LAAD	*	(N)	G				All ground syllabi
	ACPM(8)	8008	MWCS	*	(N)	G				All ground syllabi
	ACPM(8)	8020	ACE Module	*	(N)	G	8021~(N), G and; 8022~(N), G and; 8023~(N), G and; 8024~(N), G and; 8025~(N), G and; 8026~(N), G and; 8027~(N), G and; 8028~(N), G			All ground syllabi
	ACPM(8)	8021	Aviation Ops	*	(N)	G				All ground syllabi
	ACPM(8)	8022	CTRL of A/C & Missil	*	(N)	G				All ground syllabi
	ACPM(8)	8023	OAS	*	(N)	G				All ground syllabi
	ACPM(8)	8024	Assault Support	*	(N)	G				All ground syllabi
	ACPM(8)	8025	Aerial Recon	*	(N)	G				All ground syllabi
	ACPM(8)	8026	Electronic Warfare	*	(N)	G				All ground syllabi
	ACPM(8)	8027	Anti-Air Warfare	*	(N)	G				All ground syllabi
	ACPM(8)	8028	Aviation Grd Supp	*	(N)	G				All ground syllabi
	ACPM(8)	8040	Threat Module	*	(N)	G	8041~(N), G and; 8042~(N), G and; 8043~(N), G and; 8044~(N), G			All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8041	S to A Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8042	Fixed Wing Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8043	Rotary Wing Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8044	Missile & UAS Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8060	MAGTF Module	*	(N)	G	8061~(N), G and; 8062~(N), G and; 8063~(N), G and; 8064~(N), G and; 8065~(N), G			All ground syllabi
	ACPM(8)	8061	Grd Combat Ops	*	(N)	G				All ground syllabi
	ACPM(8)	8062	Fire Support in GCE	*	(N)	G				All ground syllabi
	ACPM(8)	8063	MAGTF C2	*	(N)	G				All ground syllabi
	ACPM(8)	8064	MAGTF Comm	*	(N)	G				All ground syllabi
	ACPM(8)	8065	Phasing Ctrl Ashore	*	(N)	G				All ground syllabi
	ACPM(8)	8066	Information Manageme	*	(N)	G				All ground syllabi
	ACPM(8)	8067	UAS Spt to the MAGTF	*	(N)	G				All ground syllabi
	ACPM(8)	8080	Joint Air Ops Module	*	(N)	G	8081~(N), G and; 8082~(N), G and; 8083~(N), G and; 8084~(N), G and; 8085~(N), G and; 8086~(N), G and; 8087~(N), G and; 8088~(N), G			All ground syllabi
	ACPM(8)	8081	C2 Joint Air Ops	*	(N)	G				All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8082	TAGS	*	(N)	G				All ground syllabi
	ACPM(8)	8083	Joint Fire Support	*	(N)	G				All ground syllabi
	ACPM(8)	8084	CAS	*	(N)	G				All ground syllabi
	ACPM(8)	8085	Joint Targeting	*	(N)	G				All ground syllabi
	ACPM(8)	8086	NATO	*	(N)	G				All ground syllabi
	ACPM(8)	8087	Joint Airspace Ctrl	*	(N)	G				All ground syllabi
	ACPM(8)	8088	Counter Air & Missil	*	(N)	G				All ground syllabi

3.25.3 T&R Range, Ordnance & External Resources Matrix

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PRIMARY ORDNANCE	ALTERNATE ORDNANCE	RANGE TYPE	EXTERNAL RESOURCES	EQUIPMENT
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)								
	CERT(6)	6500	Cond M2 firing	(1) A555, (1) A576, (1) A598				
	CERT(6)	6505	Cond M240 firing	(1) A111, (1) A131, (1) A143				
	CERT(6)	6510	Cond M1014 firing	(1) A011, (1) A023				
7000 PHASE - MET								
	MET(7)	7003	Echelon	(12) A011, (12) A023, (100) A059, (20) A063, (120) A080, (800) A111, (200) A131, (800) A143, (400) A555, (100) A576, (400) A598				

CHAPTER 4

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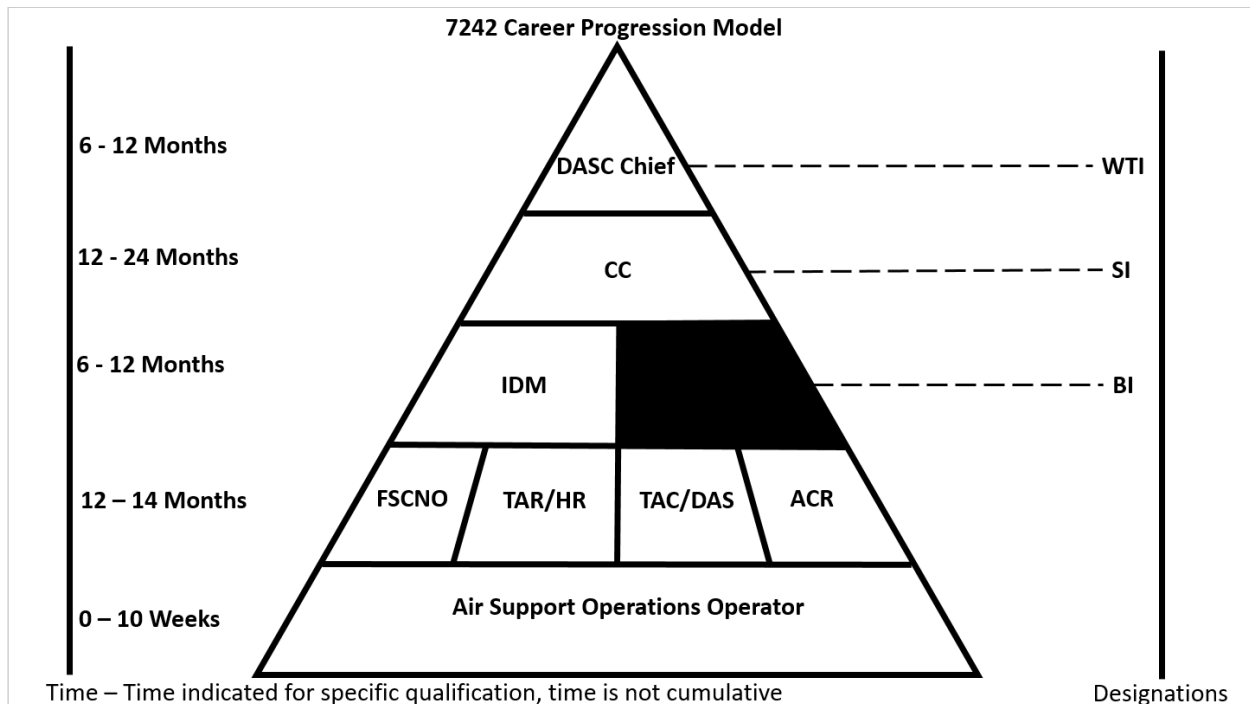
4.0 CREWMEMBER SYLLABUS T&R REQUIREMENTS

This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in core, mission, and core plus skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

4.1 TRAINING PROGRESSION MODEL

Represents the recommended training progression for the Unit or Crewmember. This model represents minimum to maximum time to train and is expressed in Months.

Units should use the model as a guide to generate individual training plans.



4.2 PROGRAMS OF INSTRUCTION

4.2.1 General

The tables reflect the average time to train in weeks for the 1000-3000 selected phases of training.

4.2.2 Basic (B) POI

The basic crewmember shall execute the entire syllabus.

BASIC (B) PROGRAM OF INSTRUCTION		
WEEKS	COURSE	PERFORMING ACTIVITY
00	Core Introduction Training	FRS/Unit
00	Core Training	Unit
00	Mission Training	Unit

4.2.3 Refresher (R) POI

The refresher shall execute those events annotated with an R. Commanding officers/WTOs/PTOs will review the qualifications, previous experience, currency, and demonstrated ability of Refreshers with a view towards combining required T&R events.

REFRESHER (R) PROGRAM OF INSTRUCTION		
WEEKS	COURSE	PERFORMING ACTIVITY
00	Core Introduction Training	FRS/Unit
00	Core Training	Unit
00	Mission Training	Unit

4.3 PROFICIENCY & CURRENCY

4.3.1 Event Proficiency

Event proficiency is defined as successful completion of the performance standard as determined by the instructor or evaluator. Event completion is predicated upon demonstrated proficiency. Once completed, it is logged in M-SHARP by entering the appropriate event code. M-SHARP automatically updates the event proficiency date to reflect the completion date.

4.3.2 Skill Proficiency

Proficiency is a measure of achievement of a specific skill. To attain individual skill proficiency, an individual must be simultaneously proficient in all events for that skill. Individuals may be attaining proficiency in some skills while maintaining proficiency in others.

Maintaining Skill Proficiency. Once attained, skill proficiency is maintained by executing those events which have a proficiency period (maintain events). Proficiency periods establish the maximum time between event demonstration. Should proficiency be lost in any maintain event, for a specific skill, that skill proficiency is temporarily lost. Skill proficiency can be re-attained by again demonstrating proficiency in the event(s) that are not proficient. For flying communities, an individual shall complete delinquent events with a proficient instructor, crewman/flight lead as delineated by the T/M/S syllabus sponsor (see Chapter 3 of the Program Manual on specific instructor requirements for low altitude flight, night systems, ACM, DM, DACM, DCM, FAC(A)).

Loss Of Individual Skill Proficiency. Should an individual lose proficiency in all maintain events in a skill, the individual will be assigned to the refresher POI for the skill. To regain skill proficiency, the individual must demonstrate proficiency in all R-events for the skill.

Loss of Unit Skill Proficiency. If an entire unit loses proficiency in an event, unit instructors shall regain proficiency by completing the event with an instructor from a like unit. If not feasible, the instructor shall regain proficiency by completing the event with another instructor. For flying communities, if a unit has only one instructor and cannot complete the event with an instructor from another unit, the instructor shall regain proficiency with another aircraft commander or as designated by the CO.

Proficiency Status. Proficiency is a “Yes/No” status by skill assigned to an individual. When an individual attains and maintains core skill proficiency (CSP), mission skill proficiency (MSP), core plus skill proficiency (CPSP), or mission plus skill proficiency (MPSP), the individual may count towards CMMR or CMTS.

4.3.3 Currency

An additional control measure associated with date last flown (CNAF M-3710.7_ and wing SOPs).

Currency is a control measure used to provide an additional margin of safety based on exposure frequency to a particular skill and applies to all MOS's that must comply with NATOPS and CNAF requirements. It is a measure of time since the last event demanding that specific skill. For example, currency determines minimum altitudes in rules of conduct based upon the most recent low altitude fly date. Specific currency requirements for aircrew individual type mission profiles can be found in Chapter 3 of NAVMC 3500.14

4.4 CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATION (CQD) TABLES

The table below delineates T&R events required to be proficient or waived to attain CQD. Waiving of all required events leading to a CQD is not allowed.

CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (CQD) CREWMEMBER	
CQD	EVENTS
QUALIFICATION	
ACR	3275, 6200

CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (CQD) CREWMEMBER	
CQD	EVENTS
TARHR	3055, 6205
TACDAS	3105, 6210
FSCNO	3155, 6215
IDM	3005, 6220
CC	3205, 6225
HD	4305
TAD	4355
DESIGNATION	
BI	6320
SI	6321
WTI	6322
FLCI	6325
DCHF	3250, 6300

4.5 SYLLABUS NOTES

4.5.1 All events, to include simulators, shall begin with a comprehensive brief with emphasis on administrative procedures, ORM, mission performance standards and crew expectations.

All events shall terminate with a comprehensive debrief with emphasis on crew performance utilizing all evaluation techniques available.

An EATF is required for any initial event completed by the trainee, or as recommended by the squadron standardization board. If the CO has waived/deferred a syllabus sortie, the squadron training officer shall place a waiver/deferral letter in section 3 of the APR.

4.5.2 Event Conditions

Refer to the following table for required event conditions.

Code	Environmental Condition
(N)	May be conducted day or night. If at night, aided or unaided.

4.5.3 Environmental Condition Settings

In addition to every T&R event header requiring an environmental condition, the following elements of a T&R event may have environmental condition settings:

Chained events (D/NS does not apply).

Prerequisite events (D/NS does not apply)

4.5.4 Device Matrix

DEVICE	
Symbol	Meaning
L	Conducted using Unit T/E equipment.
L/S	Live preferred/Simulator acceptable.
G	Ground/academic training.

4.5.5 Program of Instruction Matrix

PROGRAM OF INSTRUCTION MATRIX		
Program of Instruction (POI)	Symbol	Description
Basic	B	Initial MOS Training
Refresher	R	Return to community from non (MOS/Skill) associated tour

PROGRAM OF INSTRUCTION MATRIX		
Program of Instruction (POI)	Symbol	Description
Maintain	M	All individuals who have attained CSP/MSP/CPSP/MSPS by initial POI assignment are re-assigned to the M POI to maintain proficiency.

4.5.6 Event Terms

EVENT TERMS	
TERM	DESCRIPTION
Discuss	An explanation of systems, procedures, or maneuvers during the brief, in flight, or post flight. Student is responsible for knowledge of procedures.
Define	State or describe exactly the nature, scope or meaning of
Demonstrate	The description and performance of a particular maneuver/event by the instructor, observed by the PUI/student. The PUI/student is responsible for knowledge of the procedures prior to the demonstration of a required maneuver/student.
Introduce	The instructor may demonstrate a procedure or maneuver to a student or may coach the PUI through the maneuver without demonstration. The PUI performs the procedures or maneuver with coaching as necessary. The PUI is responsible for knowledge of the procedures.
Practice	The performance of a maneuver or procedure by the PUI/student that may have been previously introduced in order to attain a specified level of performance.
Review	Demonstrated proficiency of a maneuver by the PUI/student.
Evaluate	Any flight designed to evaluate aircrew standardization that does not fit another category such as SARCK, HACCK, T2PCK, etc.

4.6 CORE INTRODUCTION PHASE

Purpose. 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.

General.

Admin Notes.

ASOO Course (CID M0967L1) located at Marine Corps Communication-Electronics School (MCCES) in 29 Palms, CA.

Prerequisites. Meet the 7242 requirements delineated in MCO 1200.17 (Military Occupational Specialties (MOS) Marine Corps Manual).

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

CORE INTRODUCTION PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
AIRS(1)	4.7.1	4-6

4.7 CORE INTRODUCTION STAGES

4.7.1 Air School (AIRS(1)) (AIRS(1))

Purpose

To teach the Marine in the required skills to perform as a basic Air Support Operations Operator, MOS 7242.

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.

AIRS-1100 0.0 * B (N) 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 Standards. Pass an exam.

References. 1. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. 2. JP 3-09, Joint Fire Support

3. 3. MCDP 1-0, Marine Corps Operations

4. 4. MCDP 3, Expeditionary Operations

5. 5. MCTP 3-20F, Control of Aircraft and Missiles

6. 6. MCRP 3-20F.5, Direct Air Support Center Handbook

7. 7. MCRP 3-30.1, Raid Operations

8. 8. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element

9. 9. MCRP 1-10.2, MC Supplement to DOD dictionary of military and associated terms

AIRS-1102 **0.0** ***** **B** **(N)** **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 Standards. Pass an exam.

References. 1. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. 2. MCWP 3.20, MAGTF Aviation Operations

3. 3. MCRP 3-20F.5, Direct Air Support Center Handbook

4. 4. MCRP 3-31.6, MTTP for Joint Application of Firepower (JFIRE)

5. 5. MCRP 1-10.2, MC Supplement to DOD dictionary of military and associated terms

AIRS-1104 **0.0** ***** **B** **(N)** **G**

Goal. Identify Offensive Air Support (OAS).

Requirement

Identify the following:

1. Purpose of OAS.
2. Requirements for Deep Air Support (DAS).

26 Oct 22

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 Standards. Pass an exam.

References. 1. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. 2. JP 3-09.3, Close Air Support

3. 3. MCTP 3-20D, Offensive Air Support

4. 4. MCRP 3-20D.2, Deep Air Support

5. 5. MCRP 3-20F.5, Direct Air Support Center Handbook

6. 6. MCRP 3-31.6, MTPP for Joint Application of Firepower (JFIRE)

7. 7. MCRP 1-10.2, MC Supplement to DOD dictionary of military and associated terms

AIRS-1106	0.0	*	B	(N)	G
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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 Standards. Pass an exam.

References. 1. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. 2. JP 3-50, Personnel Recovery

3. 3. JP 3-52, Joint Airspace Control

4. 4. MCTP 3-01B, Helicopterborne Operations

5. 5. MCWP 3-20, MAGTF Aviation Operations

6. 6. MCTP 3-20E, Assault Support

7. 7. MCRP 3-20F.5, Direct Air Support Center Handbook

8. 8. MCRP 1-10.2, MC Supplement to DOD dictionary of military and associated terms

AIRS-1108	0.0	*	B	(N)	G
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Goal. Identify Air Reconnaissance.

Requirement

Identify the following:

1. Purpose of air reconnaissance.
2. Two types of air reconnaissance.
3. Which aviation platforms can conduct air reconnaissance.
4. The unit and system within the MACG that has the primary mission of air reconnaissance.

Performance Standards. Pass an exam.

References. 1. 1. JP 1-02, Joint Dictionary of Definition and Terms

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

3. 3. MCTP 3-20G, Air Reconnaissance

4. 4. MCRP 3-20.5, Unmanned Aircraft Systems Operations

5. 5. MCRP 1-10.2, MC Supplement to DOD dictionary of military and associated terms

AIRS-1110 **0.0** ***** **B** **(N)** **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 GÇÖ 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 Bullseye.

Performance Standards. Pass an exam.

References. 1. 1. JP 6-0, Communications Systems

2. 2. MCTP 3-20C, AntiAir Warfare

3. 3. MCTP 3-20F, Control of Aircraft and Missiles

4. 4. MCRP 3-20F.5, Direct Air Support Center Handbook

5. 5. MCTP 3-30A, Command and Staff

6. 6. MCTP 3-30B, Information Management

7. 7. MCRP 3-30B.2, MAGTF Communications Systems

8. 8. MCTP 10-10B, MTTP for an Integrated Air Defense System (IADS)

9. 9. CJCSM 6120.01, Joint Multi TDL Operating Procedures

AIRS-1112 **0.0** ***** **B** **(N)** **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.

2. Air-to-ground threats.
 - a. F/W.
 - b. R/W.
3. Surface-to-surface threats.
 - a. Armor.
 - b. APC.
 - c. Artillery.

Performance Standards. Pass an exam.

References. 1. 1. AFTTP 3-1, Threat Guide

AIRS-1118 **0.0** ***** **B** **(N)** **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 Standards. Pass an exam.

References. 1. 1. AFTTP 3-1, Threat Guide

AIRS-1120 **0.0** ***** **B** **(N)** **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 Standards. With the aid of references, pass a practical application exam without error.

References. 1. 1. JP 6-0, Communications Systems

2. 2. MCTP 3-20F, Control of Aircraft and Missiles
3. 3. MCRP 3-20F.5, Direct Air Support Center Handbook
4. 4. MCTP 3-30A, Command and Staff
5. 5. MCTP 3-30B, Information Management
6. 6. MCRP 3-30B.2, MAGTF Communications Systems
7. 7. Guide to the USMTF User Formats - OPERATIONAL TASKING LINKS
8. 8. DISA USMTF Baseline, <https://www.us.army.mil/suite/community/15897960>
9. 9. CJCSM 6120.01, Joint Multi TDL Operating Procedures
10. 10. MIL-STD-6040, USMTF Interface Standard

AIRS-1122 **0.0** ***** **B** **(N)** **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 Standards. Pass an exam.

- References.
1. 1. SECNAVINST 5510, Physical Security
 2. 2. MCO P5510.1A, Physical Security
 3. 3. EKMS-1, Electronic Key Management System Policy and Procedures Manual

AIRS-1124 **0.0** ***** **B** **(N)** **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. Aviation C2 Equipment, to include:
 - a. The Display System.
 - (1) Components
 - (2) Emplacement options.
 - (3) Components of the communication interface device.
 - 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 Standards. Pass an exam.

- References.
1. 1. TM 11927A-OR, AN/PRC-117G
 2. 2. TM 10597A-OR/4, AN/PRC-117F
 3. 3. SL-3-10597A, AN/PRC-117F

4. 4. TM 10822A-OR, AN/PRC-150
5. 5. SL-3-10822A, AN/PRC-150
6. 6. SL-3-11305A, AN/TRC-209A
7. 7. SL-3-11216A, AN/MRC-148
8. 8. TM 11255A-OR/1, AN/VRC-103
9. 9. TM 10746B-OI/23, AN/PRC-148
10. 10. TM 11496A-OI/3, AN/PRC-152
11. 11. SL-3-11496A, AN/VRC-110
12. 12. SL-3-09730B, AN/MRC-145
13. 13. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1126 **0.0** ***** **B** **(N)** **G**

Goal. Identify the characteristics, capabilities, and limitations of the Common Aviation Command and Control System (CAC2S) and its components.

Requirement

Without the aid of reference, identify the characteristics, capabilities, and limitations of each of the following:

1. AC2S
 - a. Data Link equipment.
 - b. Command Tactical Picture equipment.
 - c. Multi-Source Correlator Tracker (MSCT).
2. CS.

Performance Standards. Pass an exam.

References. 1. 1. TM 12041A/12050A-OD2, CAC2S User Manual
2. 2. MSCT Display User's Manual

AIRS-1128 **0.0** ***** **B** **(N)** **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 Standards. With the aid of reference, pass an exam.

References. 1. 1. MCRP 3-30B.2, MAGTF Communications Systems
2. 2. CJCSM 3320.02B, Joint Spectrum Interference Resolution (JSIR) Procedures
3. 3. KTCL Handling and Operating Instructions
4. 4. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1130 **0.0** * **B** **(N)** **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 Standards. With the aid of reference, pass an exam.

- References.
1. 1. MCRP 3-30B.2, MAGTF Communications Systems
 2. 2. CJCSM 3320.02B, Joint Spectrum Interference Resolution (JSIR) Procedures
 3. 3. KTCL Handling and Operating Instructions
 4. 4. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1132 **0.0** * **B** **(N)** **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/displays.
10. Locate tracks using Global Area Reference System (GARS).

Performance Standards. Pass an exam.

- References. 1. 1. JP 2-03, Geospatial Intelligence Support to Joint Operations
2. 2. MCTP 3-20F, Control of Aircraft and Missiles
 3. 3. MCRP 5-2A, (Operational Terms and Graphics)
 4. 4. MIL-STD-6016, TDL 16 Interface Standard
 5. 5. TM 12041A/12050A-OD2, CAC2S User Manual

AIRS-1134 **0.0** ***** **B** **(N)** **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 Standards. Pass an exam.

- References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

AIRS-1136 **0.0** ***** **B** **(N)** **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.
16. Observe MACCS Simulation Capability

Performance Standards. With the aid of reference, pass an exam.

References. 1. 1. TM 12041A/12050A-OD2, CAC2S User Manual
2. 2. MSCT Display User's Manual

AIRS-1140	0.0	*	B	(N)	G
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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 Standards. Pass an exam.

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

AIRS-1142	0.0	*	B	(N)	G
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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 Standards. Pass an exam.

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

AIRS-1144	0.0	*	B	(N)	G
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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 to the CAOC Central Webpage (CCWeb).
2. 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.

4.8 CORE PHASE

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.

General.

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.

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

CORE PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ACAD(2)	4.9.1	4-18
COMM(2)	4.9.2	4-20
EQUIP(2)	4.9.3	4-23
IDM(2)	4.9.4	4-24
ACR(2)	4.9.5	4-25
TRHR(2)	4.9.6	4-27
TCDS(2)	4.9.7	4-27
FSCNO(2)	4.9.8	4-28
FAM(2)	4.9.9	4-28
ASO(2)	4.9.10	4-31
CC(2)	4.9.11	4-32
DC(2)	4.9.12	4-34
TDL(2)	4.9.13	4-38
C2SYS(2)	4.9.14	4-52

4.9 CORE STAGES

4.9.1 Academics (ACAD(2)) (ACAD(2))

Purpose

To review, develop and evaluate knowledge of DASC operations, systems and procedures.

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 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 MCRP 3-20F.5, Direct Air Support Center Handbook.

ACAD-2055 1.0 * B (N) G

Goal. Identify Airspace Coordinating Measures (ACMs) / Fire Support Coordination Measures (FSCMs).

Requirement

Perform the following:

1. Identify the elements of an airspace coordination means request.
2. Describe common ACMs, and provide examples of each.
3. Describe FSCMs commonly used by the MAGTF.

Performance Standards. Pass an exam.

- References. 1. 1. JP 3-52, Joint Doctrine for Airspace Control
2. 2. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element

ACAD-2060 **1.0** ***** **B** **(N)** **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. Interpret a Pilot Report (PIREP).
4. Given a scenario by the instructor, identify the potential impacts to aviation operations of various weather conditions.

Performance Standards. Pass an exam.

- References. 1. 1. MCRP 2-10B.6, MAGTF Meteorological and Oceanographic Support
2. 2. Federal Meteorological Handbook No. 1
3. 3. FAA JO 7110.10Z, Chapter 9, Section 2

ACAD-2065 **1.0** ***** **B** **(N)** **G**

Goal. Describe aviation ordnance.

Requirement

Provided a list of common examples of air-to-ground ordnance, describe each to include:

1. Nomenclature and/or short title.
2. Provide general effect of ordnance.
3. Guidance scheme.
4. Provide examples of targets it is effective against.
5. Provide examples of USMC aircraft that can employ it.

Performance Standards. Pass an exam.

- References. 1. 1. MCRP 3-31.6, MTPP for Joint Application of Firepower (JFIRE)

ACAD-2070 **1.0** ***** **B** **(N)** **G**

Goal. Describe RSOP planning and briefing considerations.

Requirement

Perform the following:

1. Describe the purpose of conducting RSOP.
2. Identify key personnel in the conduct of RSOP.
3. Identify positions to be marked during the conduct of RSOP.
4. Identify communications requirements.
5. Identify threat considerations and security to mitigate threats.
6. Identify DASC employment considerations.

Performance Standards. Pass an exam.

- References. 1. 1. MAWTS-1 DASC TACSOP

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

ACAD-2090 1.0 * B (N) G

Goal. Describe deep air support (DAS), strike coordination and reconnaissance (SCAR), and Kill Box employment.

Requirement

Without the aid of reference, perform the following:

1. Describe the purpose of the strike coordination and reconnaissance (SCAR).
2. Define SCAR brevity codes including investigate, target, smack.
3. Define air interdiction (AI), airborne alert air interdiction (XAI), armed reconnaissance (AR), and striker.
4. Define prioritized target list and provide a notional example.
5. Describe the roles and responsibilities of the kill box coordinator (KBC).
6. Describe a blue kill box.
7. Describe a purple kill box.
8. Describe and draw the parameters of the global area reference system (GARS).
9. Identify on a 1:50,000 map, GARS keypads.
10. Define and explain fires and airspace status including open, closed, hot, and cold.
11. Define kill box terminology.

Performance Standards. Without the aid of references, pass an exam.

Instructor

AND/OR	If Event 2090 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-31.4, MTTP for Kill Box Employment

2. 2. MCRP 3-20D.1 MTTP SCAR

3. 3. MCTP 3-20D, Offensive Air Support

4. 4. JP 2-03 Geospatial Intelligence

5. 5. MAWTS-1 DASC TACSOP

4.9.2 Communications (COMM(2)) (COMM(2))Purpose

To develop proficiency in utilizing MASS organic field radios and communications procedures.

COMM-2100 1.0 * B (N) L/S

Goal. Perform Pacific Numeral Cypher Authentication.

Requirement

Given a 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.
9. Perform Chattermark Procedures

Performance Standards. Complete each requirement IAW the reference. Minor errors corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor

AND/OR	If Event 2100 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

- References. 1. 1. MCRP 8-10B.10, Radio Operator's Handbook
2. 2. MCRP 3-20F.4, MTPP for Airspace Control
3. 3. Allied Communication Publication (ACP) 125 (F), Communication Instructions – Radio Telephone Procedures

COMM-2105 1.0 365 B, R, M (N) L

Goal. Utilize a man portable radio.

Requirement

Given a tactical 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 Standards. Pass a practical application exam. Minor errors corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor

AND/OR	If Event 2105 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

- References. 1. 1. TM 11927A-OR, AN/PRC-117G
2. 2. TM 10597A-OR/4, AN/PRC-117F
3. 3. TM 10822A-OR, AN/PRC-150
4. 4. TM 11496A-OI/3, AN/PRC-152

COMM-2115 1.0 * B (N) L/S

Goal. State the following based on current MASS T/E radios.

26 Oct 22

Requirement

Given a tactical 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.
3. Explain the purpose of waveforms.
4. Explain the functions and capability of the Chat program.

Performance Standards. State the requirement items IAW the applicable Technical Manuals (TM); minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 2115 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. Applicable technical manual or operator's manual.

COMM-2130 1.0 * B (N) L/S

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 Standards. 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

AND/OR	If Event 2130 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. MCRP 8-10B.10, Radio Operator's Handbook

2. 2. MCRP 8-10B.11, Antenna Handbook

3. 3. MCRP 3-30B.2, MAGTF Communications Systems

COMM-2135 1.5 * B (N) L/S

Goal. Describe a retransmit station.

Requirement

Given two outstation radios, two retransmit radios, and a retransmit cable, perform and conduct the following:

1. Define red retransmission.
2. Define black retransmission.
3. Draw the retransmission functionality as it relates to DASC operations and communicating with aircraft with terrain in between.
4. Once programmed, complete a radio check using separate frequencies for outstation radios A and D for a red retransmission station.
5. Once programmed, complete a radio check using separate frequencies for outstation radios A and D for a black retransmission station.

Performance Standards. Complete requirement items IAW the reference; minor errors corrected by the trainee are acceptable, but the event must end in a completed radio loop validating the retransmit station.

Instructor

AND/OR	If Event 2135 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

- References. 1. 1. AN/PRC-117G Multiband Manpack Radio Operation Manual
2. 2. AN/PRC-117G Retransmit Application Note
3. 3. <https://tcpremier.l3harris.com/> - Harris premier account

4.9.3 Equipment (EQUIP(2)) (EQUIP(2))

Purpose

To develop proficiency in utilizing DASC operational equipment and hardware.

EQUIP-2155 1.5 365 B, R, M (N) L

Goal. As a part of a team, emplace, maintain, and displace the Operations Facility (OPFAC).

Requirement

Perform the following:

1. Emplace and set up the OPFAC tents.
2. Assist in the setup of the power distribution components/utilities equipment.
3. Assist in the setup of the network infrastructure components/communications equipment.
4. Assist in the setup of the visual display equipment.
5. Assist in the OPFAC operator initializing equipment to include start up and problem identification.
6. Conduct limited maintenance/repair OPFAC tents (as required).
7. Clean, Teardown, and Repack OPFAC tents.

Performance Standards. With a DASC Crew and references, demonstrate the ability to perform requirement under general supervision.

Instructor

AND/OR	If Event 2155 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

- References. 1. 1. TM 12041A/12050A-OD2, CAC2S User Manual
2. 2. BASE-X Manual

3. 3. MAWTS-1 DASC TACSOP

EQUIP-2160 1.0 * B (N) L/S

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. Explain the purpose of SL-3 gear and where to find the list.
 - c. 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.
 - c. State the relationship between utility equipment and specific DASC configurations.
3. Explain proper hazardous material handling.

Performance Standards. Identify and explain the required items IAW the references; minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 2160 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. TM 12041A/12050A-OD2, CAC2S User Manual

2. 2. MAWTS-1 DASC TACSOP

4.9.4 Information Display Manager (IDM(2)) (IDM(2))Purpose

Develop proficiency in collecting, organizing, processing, and displaying information contained within the Direct Air Support Center.

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.

IDM-2200 2.0 1095 B, R, M (N) L/S

Goal. Perform coordination of track data.

Requirement

Given a tactical system, an OPTASK LINK, a data network, and a System Administrator/Network Administrator, demonstrate the ability to:

1. Brief data link use by the DASC, including net entry/exit, and filters.
2. Brief interface anomalies resolution steps.
3. Brief JCTW database read/write permissions.
4. Coordinate TDL gateway database entries IAW the OPTASK LINK.
5. Ensure the TDL gateway is set to forward all addressed messages to the C2 tactical data system address.

Instructor

	If Event 2200 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		BI	DASC ASOO (7242)

2. 2. MSCT Display User Manual
3. 3. CJCSM 3115.01, Joint Data Network Operations
4. 4. CJCSM 6120.01, Joint Multi TDL operating procedures
5. 5. MAWTS-1 DASC TACSOP

Purpose

Admin Notes

ACR-2210 **2.0** **1095** **B, R, M** **(N)** **L/S**

Requirement

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.
9. Assist the controller in digital air control.

Instructor

AND/OR	If Event 2210 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. DISA USMTF Baseline

2. 2. MILSTD-6040

3. 3. MCRP 3-20F.5, Direct Air Support Center Handbook

4. 4. MAWTS-1 DASC TACSOP

ACR-2215 **4.0** ***** **B** **(N)** **L/S**

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. Observe the kinematic properties for a track.
5. Given an ATO mission, hook that specific track.
6. Plot an aircraft working area using track options.
7. Given a friendly air track, determine the controlling unit for that track
8. Conduct fidelity drills with another C2 interface unit.
9. Assume control of a track
10. Provide J28.2 free text to a Link 16 capable aircraft for:
 - a. Routing and SOF
 - b. Situation Updates
 - c. Immediate Requests
11. Pair a friendly track with its objective(s) via J series message.
12. Send a J12.0 message to capable aircraft.

Performance Standards. With the aid of reference, complete the listed requirements. Minor errors corrected by the Marine are acceptable.

Instructor

AND/OR	If Event 2215 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 2215 Conducted In		If 2215 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2820

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

4.9.6 Tactical Air Request/Helicopter Request (TRHR(2)) (TRHR(2))

Purpose

Develop proficiency in receiving and processing requests for immediate direct air support.

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.

TRHR-2250 2.0 1095 B, R, M (N) L/S

Goal. Receive and process immediate air support requests.

Requirement

Given a minimum of 10 CASEVACs, 10 Joint Tactical Airstrike Request (JTAR), 10 Assault Support Requests (ASRs) 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 Standards. 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

AND/OR	If Event 2250 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

4.9.7 Tactical Air Command/Direct Air Support (TCDS(2)) (TCDS(2))

Purpose

Develop proficiency in coordinating the execution of direct air support missions with the TACC and other MACCS agencies.

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.

TCDS-2300 2.0 1095 B, R, M (N) L/S

Goal. Exchange information with the TACC.

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/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 Standards. 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

AND/OR	If Event 2300 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

4.9.8 Fire Support Coordination Net Operator (FSCNO(2)) (FSCNO(2))

Purpose

To develop proficiency in coordinating the integration of aircraft employment with other supporting arms.

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.

FSCNO-2340 2.0 1095 B, R, M (N) L/S

Goal. Exchange information with the FSCC.

Requirement

Given the reference and a FSC net comprised of a FSC Net operator and counterpart in the FSCC,
Pass/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/Receive requests for changes to Air Tasking Order (ATO)/Airspace Control Order (ACO)/Special Instructions (SPINS).
6. Receive and process fire mission data from the FSCC.

Performance Standards. Process information in each category. Minor errors that are corrected by the trainee are acceptable. The instructor may provide minimal guidance.

Instructor

AND/OR	If Event 2340 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

4.9.9 Familiarization (FAM(2)) (FAM(2))

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.

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.

FAM-2350 **1.0** ***** **B** **(N)** **L**

Goal. Observe a Tactical Air Control Party (TACP).

Requirement

While observing a TACP in a field environment discuss the following positions, in relation to the DASC.
Equipment in relation to the DASC.
Operations in relation to the DASC.

Performance Standards. Complete a tour of a TACP.

Instructor

AND/OR	If Event 2350 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

References. 1. 1. JP 3-09.3, Joint Close Air Support
2. 2. MCTP 3-10F, Fire Support Coordination in the GCE

FAM-2355 **1.0** ***** **B** **(N)** **L**

Goal. Observe a TACC.

Requirement

While observing a TACC:
Discuss the positions in relation to the DASC.
Discuss equipment in relation to the DASC.
Discuss operations in relation to the DASC.

Performance Standards. Complete a tour of a TACC.

Instructor

AND/OR	If Event 2355 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.2, Marine Tactical Air Command Center Handbook

FAM-2365 **1.0** ***** **B** **(N)** **L**

Goal. Observe a Fire Support Coordination Center (FSCC).

Requirement

While observing an FSCC in a field environment:
Discuss the positions in relation to the DASC.

Discuss the equipment in relation to the DASC.
Discuss the operations in relation to the DASC.

Performance Standards. Complete a tour of a FSCC.

Instructor

AND/OR	If Event 2365 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

References. 1. 1. MCTP 3-10F, Fire Support Coordination in the Ground Combat Element

FAM-2370 **1.0** * **B** **(N)** **L**

Goal. Observe the Tactical Air Operations Center (TAOC) or an EW/C.

Requirement

Observe TAOC or EW/C:
Discuss Positions.
Discuss Equipment.
Discuss Operations.

Performance Standards. Complete a tour of a TAOC or an EW/C.

Instructor

AND/OR	If Event 2370 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.6, Tactical Air Operations Center Handbook

FAM-2375 **1.0** * **B** **(N)** **L**

Goal. Observe an Air Traffic Control Facility (ATCF) or an expeditionary ATCF.

Requirement

While observing an ATCF or an expeditionary ATCF:
Discuss the positions.
Discuss the equipment.
Discuss the operations.

Performance Standards. Complete a tour of an ATCF or an expeditionary ATCF.

Instructor

AND/OR	If Event 2375 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.7, Marine Air Traffic Control Detachment Handbook

FAM-2380 **1.0** * **B** **(N)** **L**

Goal. Observe the configuration and operation of a LAAD Section or Team.

Requirement

Tour the various configurations of LAAD at:
The section level.
The team level.

Performance Standards. Complete a tour of LAAD.

Instructor

AND/OR	If Event 2380 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.9, Low Altitude Air Defense Battalion Handbook

4.9.10 Air Support Operator (ASO(2)) (ASO(2))

Purpose

To develop proficiency in crew coordination and functioning associated with direct air support operations.

ASO-2400 2.0 365 B, R, M (N) L/S

Goal. Plot direct air support information on a hard map

Requirement

Given a map and supporting documentation, demonstrate the ability to conduct the following tasks:

1. Locate and plot four, six, and eight digit MGRS coordinates
2. Locate and plot Lat/Long coordinates
3. Plot FSCMs and ACMs using appropriate symbols
4. Plot DASC specific symbols (JTAR/ASR/etc.).
5. Plot friendly/enemy units using appropriate symbols

Performance Standards. With the aid of the references, complete the listed requirements. Minor errors corrected by the Marine are acceptable.

Instructor

AND/OR	If Event 2400 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	NS	L/S	BI	DASC ASOO (7242)

References. 1. 1. JP 2-03, Geospatial Intelligence Support to Joint Operations

2. 2. MCTP 3-20F, Control of Aircraft and Missiles

3. 3. MCRP 5-2A, (Operational Terms and Graphics)

4. 4. MIL-STD-6016, TDL 16 Interface Standard

5. 5. MAWTS-1 DASC TACSOP

ASO-2405 4.0 * B (N) L/S

Goal. Conduct Air Support Operations Operator duties in a Chemical Biological Radiological Nuclear (CBRN) environment.

Given a scenario, begin in MOPP-0 and graduate to MOPP-IV over a period of time. While increasing MOPP levels:

1. Perform as an Air Support Operations Operator.
2. Conduct a debrief on CBRN procedures.

Instructor

	If Event 2405 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		BI	DASC ASOO (7242)

2. 2. MCRP 10-10E.9, MTTP for Chemical, Biological, Radiological, and Nuclear (CBRN) Decontamination Operations

Purpose

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. 6200, 6205, 6210, 6215.

CC-2455	4.0	1095	B, R, M	(N)	L/S
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Goal. Extract critical information from supporting documents.

Demonstrate the ability to extract critical information required for DASC operations including but not limited to FSCMs, 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.
7. Joint Master Unit List (JMUL) / Unit Reference Number (URN) repository
8. Satellite Access Request (SAR) / Satellite Access Authorization (SAA)

Performance Standards. Complete the required items IAW the reference. The instructor will verify the required information is extracted; minor errors corrected by the trainee are acceptable.

	If Event 2455 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASOO (7242)

- References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. DISA USMTF Baseline
3. 3. MAWTS-1 DASC TACSOP

CC-2460 **1.0** * **B** **(N)** **L/S**

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.

Performance Standards. Complete each requirement. The instructor may provide minimal guidance.

Instructor

AND/OR	If Event 2460 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

- References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MAWTS-1 DASC TACSOP

CC-2465 **1.0** * **B** **(N)** **L/S**

Goal. Determine prioritization of communication links.

Requirement

Given the reference, a list of communication paths, and a DASC scenario with communication Tactical Datalink and data failures, perform the following:

1. Establish net restoration priority.
2. Explain restoration priorities.

Performance Standards. The instructor will verbally inform the trainee of three radio, JRE, and data failures. Trainee will brief the instructor on the restoration priority.

Instructor

AND/OR	If Event 2465 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

- References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MAWTS-1 DASC TACSOP

CC-2480 **1.0** * **B** **(N)** **L/S**

Goal. Match available aviation assets with requests.

Given a tactical scenario, list of aircraft with ordnance loads, and immediate air support requests, assign appropriate aircraft to the following requests:

CASEVAC.

Instructor

	If Event 2480 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASOO (7242)

5. 5. MCRP 5-12, MC Supplement to DOD dictionary of military and associated terms

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.

DC-2500	1.5	*	B	(N)	L/S
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Given the reference, a T/E and/or EDL, CommanderGÇOs 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 Communications.
2. Describe FSCC collocation/coordination requirements.
3. Identify composition of advanced party/RSOP team.
4. Identify DASC employment considerations including alternate sites.

Instructor

	If Event 2500 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 2500 Conducted In		If 2500 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6220

- References. 1. 1. MAWTS-1 DASC TACSOP
2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

DC-2505 4.0 1095 B, R, M (N) L

Goal. Supervise emplacement of the DASC.

Requirement

Given a site diagram with notation, 2 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 Standards. Emplace a DASC IAW with the site diagram.

Instructor

	If Event 2505 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 2505 Conducted In		If 2505 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				6220

- References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. TM 10576D-OI, Communication Interface System CAC2S

DC-2510 2.0 * B (N) L/S

Goal. Determine DASC requirements.

Requirement

Given mission tasking and commanderGÇÖs 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 air support requests and fire missions.
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 Standards. Complete all required items and brief the instructor.

Instructor

	If Event 2510 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 2510 Conducted In		If 2510 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6225

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCP)
3. 3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual
4. 4. MAWTS-1 DASC TACSOP

DC-2515	1.5	*	B	(N)	L/S
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Goal. Describe DASC displacement operations.

Requirement

Given a tactical scenario:

1. Describe DASC displacement operations in support of MAGTF operations.
2. Describe the factors associated with DASC displacement operations.
3. Brief the plan for the DASC to displace and annotate identified issues of concern.

Performance Standards. Complete all the required items IAW the reference. Instructor will discuss each item with the trainee.

Instructor

	If Event 2515 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 2515 Conducted In		If 2515 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6225

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCP)
3. 3. EWS, MAGTF Operations Ashore
4. 4. MAWTS-1 DASC TACSOP

DC-2520 **1.5** * **B** **(N)** **L/S**

Goal. State the procedures and challenges of Phasing Control Ashore.

Requirement

Given a tactical scenario:

1. Define phasing control ashore.
2. Explain each step of phasing control ashore.
3. Determine issues of concern.
4. Brief a plan to phase control ashore and annotate identified issues of concern.

Performance Standards. Complete all the required items. Instructor will discuss each item with the trainee.

Instructor

AND/OR	If Event 2520 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 2520 Conducted In		If 2520 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6225

References. 1. 1. JP 3-02, Joint Doctrine for Amphibious Operations

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

3. 3. MCWP 5-10, Marine Corps Planning Process (MCPP)

4. 4. EWS - MAGTF Operations Ashore

5. 5. MAWTS-1 DASC TACSOP

DC-2525 **80.0** * **B** **(N)** **L/S**

Goal. Construct and execute 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.
3. Submit the scenario and DASC drill to the instructor.
4. Request required communications and support equipment.
5. Identify white cell requirements.
6. Utilize organic MACCS simulation capability.
7. Oversee setup of the DASC and white cell.
8. Ensure execution and evaluation of the scenario.
9. Compile After-Action items.

Performance Standards. Complete all the required items.

Instructor

AND/OR	If Event 2525 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASOO (7242)

26 Oct 22

Prerequisites

EVENTS						
	If 2525 Conducted In		If 2525 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				6225

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCPPE)

3. 3. MCRP 3-0A, Unit Training Management (UTM) Guide

4. 4. MCRP 3-0B, How to Conduct Training

5. 5. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

6. 6. MAWTS-1 DASC TACSOP

DC-2530 1.0 * B (N) LGoal. 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.
3. Determine convoy order based on position occupation plan.
4. Ensure classified cargo, sensitive cargo, and hazardous material (HAZMAT) is properly loaded.
5. Establish bump plan for personnel, equipment, and classified material should vehicle/trailer become disabled.
6. Conduct Pre-Combat Inspections (PCI).

Performance Standards. Conduct all the items in accordance with the references.Instructor

If Event 2530 Is			Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 2530 Conducted In		If 2530 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				6225

References. 1. 1. MCTP 13-10C, Unit Embarkation Handbook

2. 2. FM 4-01.011, Unit Movement Operations

3. 3. FORSCOM Form 285-R, Vehicle Load Card

4. 4. MAWTS-1 DASC TACSOP

4.9.13 Tactical Data Link (TDL(2)) (TDL(2))Purpose

To develop DASC experience in establishing and operating advanced datalinks.

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.

TDL-2800 **1.0** ***** **B** **(N)** **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 Standards. With the aid of references, complete the required items IAW the reference. Minor errors corrected by the trainee are acceptable.

- References. 1. 1. MCWP 5-10, Marine Corps Planning Process
2. 2. MCRP 3-30B.2, MAGTF Communications Systems
3. 3. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)

TDL-2803 **1.0** ***** **B** **(N)** **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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

- References. 1. 1. MCRP 1-10.1, Organization of Marine Corps Forces
2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook
3. 3. Approved Core METL applicable to the unit
4. 4. MCBUL 3000, Marine Corps Readiness Reportable Ground Equipment

TDL-2807 **2.0** ***** **B** **(N)** **G**

Goal. Identify missions and TDL capabilities of Joint Tactical Data Systems (TDS).

26 Oct 22

Requirement

Given the references, identify the missions and TDL capabilities of the following:

- (1) U.S. Army
 - (a) Army Air and Missile Defense Command (AAMDC)
 - (b) Terminal High Altitude Air Defense Battery (THAAD)
 - (c) Air Defense Airspace Management (ADAM) Cell
 - (d) Joint Tactical Ground Station (JTGS)
 - (e) Phased Array Tracking Radar to Intercept on Target (PATRIOT)
 - (f) AH-64E Apache
- (2) U.S. Navy
 - (a) E-2C/D Hawkeye
 - (b) F/A-18C/E/F Hornet / Super Hornet
 - (c) EA-18G Growler
 - (d) Model 5 (CVN, LHD, LHA, LPD, CG, DDG)
 - (e) Model 4 (CG, FFG, LCC)
 - (f) P-3 Orion / P-8A Poseidon
 - (g) MH-60 R/S Seahawk
 - (h) F-35C Lightning
- (3) U.S. Air Force
 - (a) Control and Reporting Center (CRC)
 - (b) Air Support Operations Center (ASOC)
 - (c) E-3 AWACS
 - (d) F-15A-E Eagle / Strike Eagle
 - (e) E-8C JSTARS
 - (f) RC-135S/U/V&W Cobra Ball / Combat Sent / Rivet Joint
 - (g) EC-130E/H Senior Scout / Compass Call
 - (h) F-16CM Fighting Falcon
 - (i) F-22A Raptor
 - (j) KC-135R ROBE
 - (k) MQ-1 Predator
 - (l) MQ-9 Reaper
 - (m) RQ-4 Global Hawk
 - (n) Battlefield Airborne Communications Node (BACN)
 - (o) AC-130 Spectre Gunship
 - (p) B-2A Spirit
 - (q) B-1B Lancer
 - (r) F-35A Lightning
- (4) U.S. Marine Corps
 - (a) F/A-18A/C/D Hornet
 - (b) RQ-21A Blackjack
 - (c) MV-22B Osprey
 - (d) AV-8B Harrier
 - (e) F-35B Lightning

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

Instructor

AND/OR	If Event 2807 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASOO (7242)

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

2. (2) NAVSEA Tactical Data Systems Capabilities and Limitations (SIPR website)

3. (3) Joint Multi-TDL School Training Guides

TDL-2808 **1.0** * **B** **(N)** **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 track management.

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

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

TDL-2809 **1.0** * **B** **(N)** **G**

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

Requirement

Conduct 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. Define the Extended Interface.
6. Identify the purpose of the Joint Range Extension Application Protocol (JREAP).
7. 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).
8. Describe the delegation of responsibilities for the conduct of the Multi-TDL operations at the Joint Task Force (JTF) level and below.
9. State the two Interface Control Officer (ICO) execution functions.
10. State the responsibilities of the Link 16 Manager.
11. State the responsibilities of the Link 11/11B Manager.
12. State the responsibilities of the Track Data Coordinator (TDC).

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

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

3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

4. 4. MIL-STD-3011, JREAP Interface Standard

TDL-2810 **2.0** ***** **B** **(N)** **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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

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

2. 2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2811 **2.0** ***** **B** **(N)** **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.
3. Identify five track environments.
4. Identify the six standard track identifications.
5. Define Track Quality.
6. Define real-time track reports.
7. Identify how non real-time tracks are distinguished from real-time tracks.
8. Identify when non-real time tracks are used.
9. Define Reporting Responsibility (R2).
10. Define a common track.
11. Define correlation.
12. Define automatic correlation.
13. Describe track number negotiations during correlation.
14. Define Manual Correlation.
15. Explain de-correlation.
16. Define Dual Designation.

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

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

TDL-2812	2.0	*	B	(N)	G
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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.
10. State the purpose of NPG 8 and list and describe the corresponding message sets
11. State the purpose of NPG 9 and list and describe the corresponding message sets
12. State the relationship between the J9.0 and the J12.0
13. State the OPTASKLINK requirements for using NPG 9
14. Describe the handshake process and corresponding J series messages that are used while conducting Air Control (NPG 9)

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

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16
3. 3. Joint Multi-TDL School Training Guides

TDL-2814	2.0	*	B	(N)	G
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Goal. Describe Data Filters.

Requirement

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

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

2. 2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

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

5. 5. JRE Version 5.3.x Software User Guide

6. 6. ADSI Version 14.1.1 Software Users Guide

7. 7. Joint Multi-TDL School Training Guides

TDL-2817	3.0	*	B	(N)	G
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Goal. Define terms associated with Link 16.

Requirement

Define the following:

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.
38. Time Slot Reuse.

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

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

TDL-2818 3.0 * B (N) 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).

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

3.3. CJCSI 6232.01, Link 16 Spectrum Deconfliction

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

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

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

TDL-2820	2.0	*	B	(N)	G
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Goal. Identify mission essential segments, sets, and fields within the OPTASK LINK message.

Requirement

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. FORCFLTR.
 - 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 Standards. With the aid of reference, state (verbally or written) the required items.

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures

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

TDL-2821	1.0	*	B	(N)	G
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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
- 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 Standards. Without the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

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

2. 2. MIL-STD-6011_, Department of Defense Interface Standard, Tactical Data Link (TDL) 11/11B

3. 3. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

4. 4. MCRP 3-25E, MTTP for an Integrated Air Defense System

TDL-2822	1.0	*	B	(N)	G
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Goal. State the Interface Control Officer responsibilities.

Requirement

Describe 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 Standards. With the aid of reference, state (verbally or written) the required items. Minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 2822 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASOO (7242)

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

2. (2) MCRP 3-20F.2, Marine TACC Handbook

3. (3) Joint Multi-TDL School Training Guides

TDL-2823 1.0 * B (N) 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. Identify fires related VMF messages
12. State the purpose of VMF multi-cast groups
13. K Series and J Series data forwarding.

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

References. 1. 1. CJCSM 3115.01, Joint Data Network Operations

2. 2. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)

3. 3. MIL-STD-188-220, Digital Message Transfer Device Subsystems

4. 4. MIL-STD-2045-47001, Connectionless Data Transfer Application Layer Interface Standard

5. 5. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

6. 6. MIL-STD-6017, VMF Interface Standard

7. 7. MIL-STD-6020, Data Forwarding Between TDLs

TDL-2830 **2.0** * **B** **(N)** **L**

Goal. Operate an Air Defense Systems Integrator (ADSI).

Requirement

Given an ADSI and operational documents; using the System Manager, perform the following:

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. Perform Dynamic Link Reconfiguration (DLR).
4. Configure Data Link Forwarding and Filtering per the data link architecture and OPTASKLINK.
5. Inspect link configurations.
6. Activate Data Extract (DX) control
7. View DX control status
8. View data links panel status
9. View receive unit matrix status
10. View network diagram panel status
11. View transmit unit matrix status

Performance Standards. Complete the requirements IAW the references.

Instructor

AND/OR	If Event 2830 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASOO (7242)

References. 1. 1. ADSI Software User's Guide v5.5

2. 2. Software Administrator's Manual (SAM) for AC2S TM 11402B/12506A/12714A-15/111

3. 3. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

TDL-2836 **8.0** **1095** **B, R, M** **(N)** **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. Obtain the Link 16 initialization data load (IDL) from the USMC Network Design Facility.
6. Verify equipment is configured correctly.
7. Verify the cryptographic equipment is keyed.
8. Verify the system time is correct for synchronization.
9. Verify the correct IDL file is loaded.
10. Enter/exit link IAW published procedures.
11. Achieve fine synchronization with another interface unit.

12. Operate in/as the following:
 - a. Radio Silent or data silent.
 - b. Network Time Reference (NTR).
 - c. Initial Entry JTIDS Unit (IEJU).

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

Instructor

AND/OR	If Event 2836 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASOO (7242)

Prerequisites

EVENTS					
AND/OR	If 2836 Conducted In		If 2836 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	T&R CODE
	(N)	L			2817
AND	(N)	L			2818

- References. 1. 1. MIL-STD-6016_, DoD Interface Standard, Tactical Data Link (TDL) 16
 2. 2. Software Administrator's Manual (SAM) for AC2S TM 11402B/12506A/12714A-15/111
 3. 3. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112
 4. 4. USMC NDF Website

TDL-2840 8.0 * B (N) 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 configuration of the Secure Terminal Equipment-Remote (STE-R) or STE for JREAP B operations.
 2. Verify the JREAP B link is built properly.
 3. Enter and activate filters per the OPTASKLINK.
 4. Enable and disable the correct link connections.
 5. Enter / exit link IAW published procedures.

Performance Standards. Successfully exchange information/data.

Instructor

AND/OR	If Event 2840 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASOO (7242)

Prerequisites

EVENTS					
AND/OR	If 2840 Conducted In		If 2840 Conducted With		Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	T&R CODE
	(N)	L			2819

- References. 1. 1. MIL-STD-6016_, DoD Interface Standard, Tactical Data Link (TDL) 16

2. 2. Software Administrator's Manual (SAM) for AC2S TM 11402B/12506A/12714A-15/111
3. 3. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112
4. 4. MIL-STD-3011, JREAP Interface Standard

TDL-2842 3.0 * B (N) 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 per the OPTASKLINK.
5. Enable and disable the correct link connections.
6. Configure the ADSI DX to display PPLI data received from a JREAP C link.
7. Open a .D10 file and play it back for analysis.
8. Monitor the ADSI and provide the instructor with the status of received JREAP C units.

Performance Standards. Successfully exchange information/data.

Instructor

AND/OR	If Event 2842 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 2842 Conducted In		If 2842 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				2819

References. 1. 1. MIL-STD-6016_, DoD Interface Standard, Tactical Data Link (TDL) 16

2. 2. MIL STD 3011, JREAP Interface Standard
3. 3. Software Administrator's Manual (SAM) for AC2S TM 11402B/12506A/12714A-15/111
4. 4. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

4.9.14 Command & Ctrl Sys (C2SYS(2)) (C2SYS(2))

Purpose

To develop proficiency in utilizing the command and control systems used in DASC operations.

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.

C2SYS-2900 **0.5** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency logging on a TBMCS client.

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Log in to a client.
2. Change password.
3. Access CAOC central.
4. Select or de-select the warnings that are displayed for login or application access.

Performance Standards. With the aid of references, complete the required items IAW the reference.

References. 1. 1. TBMCS User's Manual

C2SYS-2910 **2.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency with the TBMCS Execution Status and Monitoring.

Requirement

Given an operational TBMCS and training materials, update data on an Air Battle Plan (ABP) in the Air Operations database (AODB), to include:

1. In graphical and tabular style, open multiple, independently configurable, filterable, sortable and nameable displays of the retrieved data.
2. Save and restore customizations such as column order, visible columns, filter definitions and custom status color mappings.
3. Plot air and missile routes.
4. Plot operations data such as airspace, targets, bases, and unit locations.
5. Update the Current Execution Status of any Tasked Air or Missile Mission in the Selected ABP.
6. Review previously archived versions of a mission including its currently tasked (replanned) version.
7. Use ESTAT to update the following mission information:
 - a. ABP State.
 - b. Air Mission Status.
 - c. Estimated and Actual Mission Event Times.
 - d. Air Mission Results.
 - e. Capability to Group Missions.
 - f. Number of Canceled and/or Added Aircraft.
 - g. Actual Mission Configuration/Standard Configuration Load (SCL).
 - h. Comments.
 - i. Create, Edit, and Delete Mission Deviations.
 - j. Ground Alert Response Time.
 - k. Residual Mission Code.
 - l. Create, Edit, and Delete Wide Area Geographic (WAG) Activities.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-2911 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency with TBMCS Web Air Request Processor.

Requirement

Given an operational TBMCS and training materials, complete the following:

26 Oct 22

1. Initiate WARP.
2. Access/Exit the WARP Control Panel.
3. Set Timer Alerts.
4. Activate the WARP Status Display Board.
5. Create one immediate and one preplanned request for each of the following:
 - a. JTAR.
 - b. ASR.
 - c. CASEVAC.
6. Show Table Summaries.
7. Set the Auto Update Frequency.
8. View an Auto Update Log.
9. Set and Show Local Time.
10. Use WARP to perform the following tasks:
 - a. Show Targets on a Map.
 - b. View a Transaction Log.
 - c. Show All Requests.
 - d. Sort Order.
 - e. View request details.
 - f. Update status of an air request.
 - g. Assign/Unassign Requests.
 - h. Edit Requests.
 - i. Edit BDA.
 - j. Highlight a Target on the Map.
 - k. Query Missions.
 - l. Hide Selected Missions.
 - m. Show All Missions.
11. Submit a WARP BDA Report.
12. Delete Requests.
13. Exit WARP.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-2920 4.0 * B (N) G

Goal. Demonstrate proficiency operating Advanced Field Artillery Tactical Data System (AFATDS).

Requirement

Given an operational AFATDS workstation, a fully functional network and Common Tactical Picture (CTP) architecture, and supporting operational documents, perform the following:

1. Demonstrate familiarity with operator controls and indicators.
2. Login/Logout of workstation.
3. Use disk utilities.
4. Transfer & receive plan or current situation.
5. Navigate AFATDS functions menu.
6. Configure communications.
7. Conduct map management operations.
8. Manipulate friendly unit information.
9. Setup data distribution functions.
10. Set guidances:
 - a. View/edit target guidances.
 - b. Establish immediate mission routing.

References.

1. TM 11-7025-OR/1 - /3, AFATDS Operator's Manual Volumes 1-3
2. TB 11-7025-354-10-4, Air Operations for AFATDS
3. TB 11-7025-297-10, AFATDS Operators Notebook

Given a workstation (disadvantaged user), an active network, and an operational AC2S:

1. Describe Tactical Display Framework Portal.
2. Describe configuration requirements.
3. Request a username, password, IP address from the AC2S system administrator.

4. Login into TDF Webportal utilizing a browser.
5. Add an additional portlet.
6. Remove a portlet.
7. Describe the following portlets:
 - a. Map View
 - b. Track List
 - c. Shared Tracks.
 - d. Rollover
 - e. Primary
 - f. Secondary
 - g. Bearing/Range Lines
 - h. Chat
 - i. Alerts
8. Create a collaboration window
9. Disable/enable the automatic display of track history.
10. Change the symbol set.
11. Demonstrate a persistent bearing/range line between two objects.
12. Configure track filters.
13. Demonstrate the dimming and opacity capabilities.
14. View track details.
15. Describe the map view preferences
 - a. Map
 - b. Telestrator Options
 - c. Overlays Options
 - d. Track Preferences
 - e. Save View Options
 - f. Load View Options
 - g. Manage View Options
16. Draw and remove freeform shapes on the map and share them with your network.
17. Add and remove overlay points.

Performance Standards. With the aid of reference, complete the listed requirements. Minor errors corrected by the Marine are acceptable

Instructor

AND/OR	If Event 2923 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. TDF Portal User Manual

2. 2. TDF Portal Administrator Guide

C2SYS-2926 4.0 365 B, R, M (N) G

Goal. Demonstrate proficiency operating Basic Battle Management functions on Processing, Display and Sensor Software (PDSS) display.

Requirement

Given an operational Air Command and Control System (AC2S), perform the following:

- (1) Identify and describe the major components of the PDSS display
- (2) Change the symbology presentation
- (3) Create a new Collaboration group and demonstrate the following:
 - (a) Set the Preferred Collaboration to the group of your choosing

- (b) Open a new chat window or tab
- (c) Insert a pre-defined Text Replacement entry into chat
- (d) Recognize and interact with hyperlinked text in chat
- (e) Move a chat session out of the Dashboard area
- (f) Add a new XMPP chat account
- (g) Set up multiple chat windows as desired, and save and recall their layout
- (4) Create a new Telestrator drawing or scribble
- (5) Add a track to the Shared Track List for the “Shared” collaboration group
- (6) Create a circular overlay using the Control Bar shortcut buttons
- (7) Create an extruded polygon overlay
- (8) Edit an existing overlay using both Edit and Open in Overlays methods
- (9) Share an overlay with all other workstations
- (10) Use the Shape List to set the local ADW status for a specific shape
- (11) Create a manual air track and land point, with an Identity and Platform of your choosing
- (12) Preserve a track
- (13) Use the Swap Track function to exchange track data between two tracks
- (14) Use the Reposition Track pointer to give a track a new heading and speed as well as place a track in a new location
- (15) Turn on Track History for a specific track; use rollovers to obtain history data for the first point stored on the track
- (16) Explain and show the different ways to edit track identity, platform, and activity
- (17) Set and clear an MIL-STD-2525B Battle Dimension Code on a track
- (18) Locate a track with a Track Drop Indicator and explain this function
- (19) Create/remove a Constrained Shape on a track
- (20) Demonstrate the ability to use the Primary and Secondary Hook functions
- (21) Use the Set Reference function to designate a Reference Point

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

Equipment. CAC2S

Instructor

AND/OR	If Event 2926 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASOO (7242)

References. 1. (1) Software User’s Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

2. (2) CAC2S Display User Manual

C2SYS-2928 4.0 365 B, R, M (N) G

Goal. Demonstrate proficiency operating Air Control functions on Processing, Display and Sensor Software (PDSS) display.

Requirement

Given an operational Air Command and Control System (AC2S), perform the following:

- (1) Load an ATO, and parse missions by either Controlling unit, or Tasked Unit
- (2) Set the name of the currently loaded ATO
- (3) Edit ATO String Mappings for both Aircraft and Missions
- (4) Manually associate a track to an existing ATO mission
- (5) Manually create a new ATO mission
- (6) Create an ATO filter for a given aircraft type
- (7) Import a new ACO; share specific ACMs in the Shared Collaboration group

- (8) Create a local filter for an ACO by both altitude band and by bounds
- (9) Create a J10.6 Pairing Line between two tracks using both the hook and right-click and double hook methods
- (10) Handover a track to another C2JU
- (11) Create a mission assignment to a non-C2JU
- (12) Create a flight path and assign a non-C2JU to that path
- (13) Create a paring line between an non-TDL capable track and a reference point
- (14) Broadcast current weather conditions over a given target area via Link 16
- (15) Issue a Request for a JTAR using the Air Request Pointers; edit the request
- (16) Issue a Request for an ASR using the Request Form buttons; edit the request
- (17) Insert the current date/time into a request time field
- (18) Acquire a position from the view while editing a request coordinate field
- (19) Edit an existing Air Request from the Request List
- (20) Locate a newly created Request on the TacSit
- (21) Offset/Center on a particular Request from a Request List
- (22) Archive an existing Request
- (23) Filter the Archive Request List by a specific request type
- (24) Using a Control Bar Request Toggle button, display only Requests with a status of Complete

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

Equipment. CAC2S

Instructor

AND/OR	If Event 2928 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASOO (7242)

- References. 1. (1) Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112
2. (2) CAC2S Display User Manual

C2SYS-2940 1.0 * B (N) G

Goal. Demonstrate proficiency utilizing tactical chat.

Requirement

Given operational data architecture and a tactical chat application perform the following:

1. Initiate the tactical chat application.
2. Connect to a chat server.
3. Set up user preference.
4. Access channels on the tactical chat server.
5. Know and understand terms specific to tactical chat.
6. Know and understand the basic limitations and weaknesses of tactical chat.
7. Know and understand the standard tactical chat terminology and abbreviations.
8. Know and understand proper acknowledgement procedures of tactical chat communications.
9. Know and understand the basic troubleshooting steps of tactical chat.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. MCRP 3-40.2B, Tactical Chat MTTP

4.10 MISSION PHASE

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.

General.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:
 - a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisite. Complete all Core Skill events required for the respective crew position.

MISSION PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
IDM(3)	4.11.1	4-59
TRHR(3)	4.11.2	4-62
TCDS(3)	4.11.3	4-64
FSCNO(3)	4.11.4	4-67
CC(3)	4.11.5	4-69
DC(3)	4.11.6	4-72
ACR(3)	4.11.7	4-73
TDL(3)	4.11.8	4-76

4.11 MISSION STAGES

4.11.1 Information Display Manager (IDM(3)) (IDM(3))

Purpose

Develop proficiency in collecting, organizing, processing, and displaying information contained within the direct air support center.

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 Information Display Manager.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:
 - a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisites. Proficiency in Core Skill Events.

Crew Requirement. A crew supporting direct air support functions.

IDM-3000 **10.0** * **B** **(N)** **L/S**

Goal. Perform as an Information Display Manager.

Requirement

Given a scenario, supporting documentation, and an agency supporting direct air support operations, conduct the duties of an IDM to include:

1. Brief the tactical data link (TDL) portion of the agency's crew brief
2. Ensure data link database entries are entered and correct IAW the OPTASK LINK.
3. Ensure DASC data link equipment is configured correctly
4. Ensure DASC cryptographic equipment is keyed
5. Perform net entry/exit procedures
6. Enter and manage filters in accordance with the OPTASK LINK.
7. Monitor the status and health of operational TDLs
8. Perform fidelity drills as directed by the ICO
9. Manage the agency's COP including:
 - a. Overlays.
 - b. Tracks.
 - c. Imported ATO, and ACOs.
10. Assist other operators in plotting immediate requests, fire missions, etc. as required.
11. Coordinate with external agencies in the conduct of multi-TDL operations.

Performance Standards. 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

	If Event 3000 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 3000 Conducted In		If 3000 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L/S				2060
AND	(N)	L/S				2065
AND	(N)	L/S				2090
AND	(N)	L				2100
AND	(N)	L				2105
AND	(N)	L/S				2115
AND	(N)	L/S				2130
AND	(N)	L				2155
AND	(N)	L/S				2160
AND	(N)	L/S				2200
AND	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2807
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2810
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2814

EVENTS						
AND/OR	If 3000 Conducted In		If 3000 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2819
AND	(N)	L/S				2820
AND	(N)	L/S				2821
AND	(N)	L/S				2822
AND	(N)	L/S				2823
AND	(N)	L/S				2830
AND	(N)	L/S				2836
AND	(N)	L/S				2840
AND	(N)	L/S				2842
AND	(N)	L/S				3050
AND	(N)	L/S				3150
AND	(N)	L/S				8000

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

IDM-3005 **10.0 1095 B, R, M** **(N) L/S**

Goal. Perform as an Information Display Manager IAW the Qualification Level.

Requirement

Given a scenario, supporting documentation, the Qualification Standard and an agency supporting direct air support operations, conduct the duties of an IDM to include:

1. Brief the tactical data link (TDL) portion of the agency's crew brief
2. Ensure data link database entries are entered and correct IAW the OPTASK LINK
3. Ensure DASC data link equipment is configured correctly
4. Ensure DASC cryptographic equipment is keyed
5. Perform net entry/exit procedures.
6. Enter and manage filters in accordance with the OPTASK LINK.
7. Monitor the status and health of operational TDLs
8. Perform fidelity drills as directed by the ICO.
9. Manage the agency's COP including
 - a. Overlays.
 - b. Tracks.
 - c. Imported ATO, and ACOs.
10. Assist other operators in plotting immediate requests, fire missions, etc. as required.
11. Coordinate with external agencies in the conduct of multi-TDL operations.

Performance Standards. 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

AND/OR	If Event 3005 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

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Prerequisites

EVENTS						
AND/OR	If 3005 Conducted In		If 3005 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2400
AND	(N)	L/S				2405
AND	(N)	L/S				3000
AND	(N)	L/S				3055
AND	(N)	L/S				3155
AND	(N)	L/S				8020
AND	(N)	L/S				8040

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

4.11.2 Tactical Air Requests/Helicopter Requests (TRHR(3)) (TRHR(3))Purpose

Develop proficiency in receiving and processing requests for immediate direct air support.

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 Tactical Air Request/Helicopter Request net operator.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

- a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisites. Proficiency in Core Skill Events.Crew Requirement. A crew supporting direct air support functions.**TRHR-3050 10.0 * B (N) L/S**Goal. Perform as a TAR/HR Net Operator.Requirement

Given a scenario, supporting documentation, and an agency supporting direct air support operations, conduct the duties of an TARHR net operator to include:

1. Process immediate air support requests (JTAR, ASR, CASEVAC), pass request numbers and complete forms.
2. Process mission data.
3. Process Battle Damage Assessments (BDAs).
4. Process Air Defense Warning Condition/Weapons Control Status.
5. Process 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 Standards. 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

AND/OR	If Event 3050 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3050 Conducted In		If 3050 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L/S				2060
AND	(N)	L/S				2065
AND	(N)	L/S				2090
AND	(N)	L/S				2100
AND	(N)	L				2105
AND	(N)	L/S				2115
AND	(N)	L/S				2130
AND	(N)	L				2155
AND	(N)	L/S				2160
AND	(N)	L/S				2250
AND	(N)	L/S				2926
AND	(N)	L/S				2928
AND	(N)	L/S				8000

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

TRHR-3055 10.0 1095 B, R, M (N) L/S

Goal. Perform as a TAR/HR Net Operator IAW the Qualification Level.

Requirement

Given a scenario, supporting documentation, the Qualification Standard and an agency supporting direct air support operations, conduct the following::

1. Process immediate air support requests (JTAR, ASR, CASEVAC), pass request numbers and complete forms.
2. Process mission data.
3. Process Battle Damage Assessments (BDAs).
4. Process Air Defense Warning Condition/Weapons Control Status.
5. Process 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 Standards. 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.

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Instructor

AND/OR	If Event 3055 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3055 Conducted In		If 3055 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2400
AND	(N)	L/S				2405
AND	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2807
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2810
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2814
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2819
AND	(N)	L/S				2820
AND	(N)	L/S				2821
AND	(N)	L/S				2823
AND	(N)	L/S				2900
AND	(N)	L/S				2911
AND	(N)	L/S				2940
AND	(N)	L/S				3050
AND	(N)	L/S				8020

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

4.11.3 Tactical Air Command/Direct Air Support (TCDS(3)) (TCDS(3))Purpose

Develop proficiency in coordinating the execution of direct air support missions with the TACC and other MACCS agencies.

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 TAC/DAS Net Operator.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

- a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisites. Proficiency in Core Skill Events.

Crew Requirement. A crew supporting direct air support functions.

TCDS-3100 10.0 * B (N) L/S

Goal. Perform as a TAC/DAS Net Operator.

Requirement

Given a scenario, supporting documentation and an agency supporting direct air support operations, conduct the duties of an TAC/DAS to include:

1. Read and understand USMTF Air Tasking Order (ATO).
2. Process changes to ATO/SPINS.
3. Process changes to ACO.
4. Process friendly & enemy information.
5. Process BDA / In Flight Report (IFREP).
6. Process Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
7. Process threat information.
8. Process weather updates & Pilot Reports (PIREPs).
9. Process status of air facilities.
10. Process for immediate air support.
11. Process a DASC Equipment Status report.
12. Perform Crew Brief, changeover brief and debrief.
13. Maintain crew position log.

Performance Standards. 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

AND/OR	If Event 3100 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3100 Conducted In		If 3100 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L/S				2060
AND	(N)	L/S				2065
AND	(N)	L/S				2090
AND	(N)	L/S				2100
AND	(N)	L				2105
AND	(N)	L/S				2115
AND	(N)	L/S				2130
AND	(N)	L				2155
AND	(N)	L/S				2160
AND	(N)	L/S				2300
AND	(N)	L/S				2926
AND	(N)	L/S				2928
AND	(N)	L/S				8000

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

TCDS-3105 10.0 1095 B, R, M (N) L/S

Goal. Perform as a TAC/DAS Net Operator IAW the Qualification Level.

Requirement

Given a scenario, supporting documentation, the Qualification Standard and an agency supporting direct air support operations, conduct the duties of an TAC/DAS to include:

1. Read and understand USMTF Air Tasking Order (ATO).
2. Process changes to ATO/SPINS.
3. Process changes to ACO.
4. Process friendly & enemy information.
5. Process BDA / In Flight Report (IFREP).
6. Process Air Defense Warning Condition/Weapons Control Status (ADWC/WCS).
7. Process threat information.
8. Process weather updates & Pilot Reports (PIREPs).
9. Process status of air facilities.
10. Process for immediate air support.
11. Process a DASC Equipment Status report.
12. Perform Crew Brief, changeover brief and debrief.
13. Maintain crew position log.

Performance Standards. 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

	If Event 3105 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 3105 Conducted In		If 3105 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2400
AND	(N)	L/S				2405
AND	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2807
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2810
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2814
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2819
AND	(N)	L/S				2820
AND	(N)	L/S				2821
AND	(N)	L/S				2823
AND	(N)	L/S				2900
AND	(N)	L/S				2910

EVENTS						
AND/OR	If 3105 Conducted In		If 3105 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				2911
AND	(N)	L/S				2940
AND	(N)	L/S				3100
AND	(N)	L/S				8020

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MAWTS-1 DASC TACSOP

4.11.4 Fire Support Coordination Net Operator (FSCNO(3)) (FSCNO(3))

Purpose

To develop proficiency in coordinating the integration of aircraft employment with other supporting arms.

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 FSC Net operator.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

- a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisites. Proficiency in Core Skill Events.

Crew Requirement. A crew supporting direct air support functions.

FSCNO-3150 10.0 * B (N) L/S

Goal. Perform as an Fire Support Coordination Net Operator.

Requirement

Given a scenario, supporting documentation, and an agency supporting direct air support operations, conduct the duties of a FSCNO to include:

1. Process friendly and enemy information.
2. Process Fire Support positions, fire mission data and status.
3. Process changes to Friendly Scheme of Maneuver
4. Process changes to Fire Support Coordination measures.
5. Process for changes to ATO/ACO/SPINS.
6. Process aircraft mission status.
7. Perform Crew Brief, changeover brief and debrief.
8. Maintain crew position log.

Performance Standards. 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

AND/OR	If Event 3150 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3150 Conducted In		If 3150 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L/S				2060
AND	(N)	L/S				2065
AND	(N)	L/S				2090
AND	(N)	L/S				2100
AND	(N)	L				2105
AND	(N)	L/S				2115
AND	(N)	L/S				2130
AND	(N)	L				2155
AND	(N)	L/S				2160
AND	(N)	L/S				2340
AND	(N)	L				2365
AND	(N)	L/S				2926
AND	(N)	L/S				2928
AND	(N)	L/S				8000

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MAWTS-1 DASC TACSOP

FSCNO-3155 10.0 1095 B, R, M (N) L/S

Goal. Perform as an Fire Support Coordination Net Operator IAW the Qualification Level.

Requirement

Given a scenario, the Qualification Standard (12 ATO Missions, 4 Immediate Air Support Requests, and 3 Fire Missions per hour), an agency supporting direct air support operations and supporting documentation, conduct the following tasks:

1. Process friendly and enemy information.
2. Process Fire Support positions, fire mission data and status.
3. Process changes to Friendly Scheme of Maneuver
4. Process changes to Fire Support Coordination measures.
5. Process for changes to ATO/ACO/SPINS.
6. Process aircraft mission status.
7. Perform Crew Brief, changeover brief and debrief.
8. Maintain crew position log.

Performance Standards. 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

AND/OR	If Event 3155 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	NS	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 3155 Conducted In		If 3155 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2400
AND	(N)	L/S				2405
AND	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2807
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2810
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2814
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2819
AND	(N)	L/S				2820
AND	(N)	L/S				2821
AND	(N)	L/S				2823
AND	(N)	L/S				2920
AND	(N)	L/S				2940
AND	(N)	L/S				3150
AND	(N)	L/S				8020
AND	(N)	L/S				8062

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

4.11.5 Crew Chief (CC(3)) (CC(3))

Purpose

To develop proficiency in crew and system management involved in direct air support operations.

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 Crew Chief.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:
 - a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisites. 6200, 6205, 6210, 6215, 6220, 8040, 8060 and proficiency in Core Skill events

Crew Requirement. DASC Crew.

CC-3200 10.0 * B (N) L/S

Goal. Perform as a DASC Crew Chief.

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Requirement

Given a scenario, supporting documentation, an operational direct air support agency, 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. Supervise accuracy of situational displays.
8. Compile all forms and conduct an operational summary daily.
9. Ensure equipment status reports are completed daily.
10. Ensure crewmembers are being trained and evaluated.

Performance Standards. 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

	If Event 3200 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 3200 Conducted In		If 3200 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2135
AND	(N)	L/S				2926
AND	(N)	L/S				2928
AND	(N)	L/S				6200
AND	(N)	L/S				6205
AND	(N)	L/S				6210
AND	(N)	L/S				6215
AND	(N)	L/S				6220
AND	(N)	L/S				8040
AND	(N)	L/S				8060

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

CC-3205 10.0 1095 B, R, M (N) L/S

Goal. Perform as a DASC Crew Chief IAW the Qualification Level.

Requirement

Given a scenario, the Qualification Standard, supporting documentation, a direct air support agency, 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.

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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
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.

Performance Standards. Conduct duties of a Crew Chief (requiring minimal input from the instructor) while a DASC passes or receives control of airspace.

Instructor

	If Event 3475 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S		SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 3475 Conducted In		If 3475 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				8040
AND	(N)	L/S				8060

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2.2. MAWTS-1 DASC TACSOP

4.11.6 DASC Chief (DC(3)) (DC(3))

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.

Admin Notes

Prerequisites. 2500, 2505, 2510, 2515, 2520, 2525, 2530, 2070, 6225.

Crew Requirement. DASC Detachment (multiple crews).

DC-3250	8.0	1095	B, R, M	(N)	L/S
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Goal. Conduct the duties of a DASC Chief during a field deployment/exercise.

Requirement

Given a Warning Order, Deployment Order, a T/O and T/E, and other planning documents plan for and execute a DASC deployment of at least five (5) days in length. Conduct planning and supervise execution to include the following items:

1. Conduct Problem Framing.
2. Extract critical information from OPORDs and Concept of Operations.
3. Coordinate logistics/personnel and equipment requirements.

4. Participate as part of a site selection/survey.
5. Review Communications plan, ACEOI & Guard Chart.
6. Assist in producing the LOI.
7. Coordinate and solidify (as applicable):
 - a. Training Objectives.
 - b. Personnel Roster.
 - c. Equipment Density List/Bill of Materials (BOM) Request.
 - d. DASC Information Exchange requirements and comm connectivity.
8. Coordinate with external agencies.
9. Supervise gear/equipment inspection and 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 Standards. Conduct this event in compliance with local training guides, MAWTS-1 DASC TACSOP and governing directives.

Instructor

AND/OR	If Event 3250 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3250 Conducted In		If 3250 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2070
AND	(N)	L/S				2500
AND	(N)	L				2505
AND	(N)	L/S				2510
AND	(N)	L/S				2515
AND	(N)	L/S				2520
AND	(N)	L/S				2525
AND	(N)	L				2530
AND	(N)	L/S				6225

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MCWP 5-10, Marine Corps Planning Process (MCPPE)

3. 3. MSTP Pamphlet 5-0.3, MAGTF Planner's Reference Manual

4. 4. MCRP 3-0A, Unit Training Management (UTM) Guide

5. 5. MCRP 3-0B, How to Conduct Training

6. 6. MAWTS-1 DASC TACSOP

4.11.7 Air Control Recorder (ACR(3)) (ACR(3))

Purpose

Develop proficiency in maintaining the situational display used in tracking ATO mission information.

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.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

Prerequisites. Proficiency in Core Skill Events.

Crew Requirement. A crew supporting direct air support functions.

ACR-3270 10.0 * B (N) L/S

Goal. Perform as an Air Control Recorder.

Requirement

Given a scenario, supporting documentation, and an agency supporting direct air support operations, conduct the duties of an ACR to include:

1. Track location of all assigned A/C.
2. Record BDA / 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 air support requests.
7. Track and update the execution of the ATO.
8. Track status of applicable air facilities.
9. Assist in Digital Air Control.

Performance Standards. 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

AND/OR	If Event 3270 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3270 Conducted In		If 3270 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2055
AND	(N)	L/S				2060
AND	(N)	L/S				2065
AND	(N)	L/S				2090
AND	(N)	L/S				2100
AND	(N)	L				2105
AND	(N)	L/S				2115
AND	(N)	L/S				2130
AND	(N)	L				2155
AND	(N)	L/S				2160
AND	(N)	L/S				2210

EVENTS						
	If 3270 Conducted In		If 3270 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				2926
AND	(N)	L/S				2928
AND	(N)	L/S				8000

References. 1. 1. MILSTD 2525C, Operational Terms and Graphics

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

3. 3. MAWTS-1 DASC TACSOP

ACR-3275 10.0 1095 B, R, M (N) L/S

Goal. Perform as an Air Control Recorder IAW the Qualification Level.

Requirement

Given a scenario, the Qualification Standard and an agency supporting direct air support operations, conduct the duties of an ACR to include:

1. Track location of all assigned A/C.
2. Record BDA / 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 air support requests.
7. Track and update the execution of the ATO.
8. Track status of applicable air facilities.
9. Assist in Digital Air Control.

Performance Standards. 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

	If Event 3275 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 3275 Conducted In		If 3275 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2215
AND	(N)	L/S				2400
AND	(N)	L/S				2405
AND	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2807
AND	(N)	L/S				2808
AND	(N)	L/S				2809
AND	(N)	L/S				2810
AND	(N)	L/S				2811
AND	(N)	L/S				2812
AND	(N)	L/S				2814

EVENTS						
AND/OR	If 3275 Conducted In		If 3275 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				2817
AND	(N)	L/S				2818
AND	(N)	L/S				2819
AND	(N)	L/S				2820
AND	(N)	L/S				2821
AND	(N)	L/S				2823
AND	(N)	L/S				2900
AND	(N)	L/S				2910
AND	(N)	L/S				2940
AND	(N)	L/S				3270
AND	(N)	L/S				8020

References. 1. 1. MILSTD 2525C, Operational Terms and Graphics

2. 2. MCRP 3-20F.5, Direct Air Support Center Handbook

3. 3. MAWTS-1 DASC TACSOP

4.11.8 Tactical Data Link (TDL(3)) (TDL(3))

Purpose

These events will instruct watch standers on Tactical Data Link (TDL) skills necessary for operations, maintenance, and TDL managers to support mission objectives using current tactical data systems and standardized TDLs.

TDL-3850 3.0 * B (N) L/S

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 agencyGÇÖs crew brief.
2. Execute the agencyGÇÖs 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 Standards. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 3850 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3850 Conducted In		If 3850 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2800
AND	(N)	L/S				2803

EVENTS						
AND/OR	If 3850 Conducted In		If 3850 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	L/S				2811
AND	(N)	L/S				2814
AND	(N)	L/S				2817
AND	(N)	L/S				2819
AND	(N)	L/S				2820

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MAWTS-1 DASC TACSOP

TDL-3851 **3.0** ***** **B** **(N)** **L/S**

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 agencyGÇÖs track production responsibilities as the tactical situation changes.
2. Coordinate the agencyGÇÖs usage of data filters.
3. Coordinate the agencyGÇÖs 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 Standards. Complete the requirement items IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor

AND/OR	If Event 3851 Is			Required Instructor	
	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	NS	L/S		SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 3851 Conducted In		If 3851 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				2800
AND	(N)	L/S				2803
AND	(N)	L/S				2811
AND	(N)	L/S				2814
AND	(N)	L/S				2817
AND	(N)	L/S				2819
AND	(N)	L/S				2820

References. 1. 1. CJCSM 6120.01_, Joint Multi-TDL Operating Procedures (JMTOP)
2. 2. MAWTS-1 DASC TACSOP

TDL-3856 **1.0 1095 B, R, M** **(N) L/S**

Goal. Conduct operations utilizing AC2S Variable Message Format (VMF) capabilities.

Requirement

Given a MIL-STD-3011 compliant data link management system, Advanced Field Artillery Tactical Data System (AFATDS), and the required operational documentation, perform VMF processing:

- (1) Configure Command And Control Personal Computer (C2PC) and Effects Management Tool (EMT) for operations
- (2) Manipulate the widget view for air requests
- (3) Process a Joint Tactical Air Request (JTAR) using the AC2S VMF capability
- (4) Process an assault support request (ASR) using the AC2S VMF Capability
- (5) Process a Medical Evacuation Request (MEDEVAC) using the AC2S VMF capability
- (6) Archive air requests
- (7) Use basic operating capabilities of the VMF fire support Coordination measure (FSCM) fire support mission graphics (FSMG) plotting functionality
- (8) Use VMF capabilities for fires deconfliction
- (9) Conduct Airspace Control Measure (ACM) coordination
- (10) Conduct operations using VMF messaging capabilities
- (11) Use VMF overlay functionality
- (12) Troubleshoot VMF connectivity issues

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

Equipment. AFATDS, CAC2S

Instructor

AND/OR	If Event 3856 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

References. 1. (1) MIL-STD-188-220, Digital Message Transfer Device Subsystems

2. (2) MIL-STD-6017, VMF Interface Standard

3. (3) MIL-STD-6020, Data Forwarding Between TDLs

4. (4) Software User's Manual for AC2S TM 11402B/12506A/12714A-15/112 (SUM)

4.12 CORE PLUS PHASE

Purpose. Core Plus Phase is intended to train the individual to utilize the tools, systems and/or procedures which have a low probability of execution or are theater specific.

General.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:

- a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.

CORE PLUS PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ACAD(4)	4.13.1	4-79
CTRL(4)	4.13.2	4-80
HD(4)	4.13.3	4-81
TAD(4)	4.13.4	4-82
FAM(4)	4.13.5	4-84

4.13 CORE PLUS STAGES

4.13.1 Academics (ACAD(4)) (ACAD(4))

Purpose

To develop proficiency in crew coordination and functioning associated with direct air support operations.

Admin Notes

Prerequisites. 2800, 2803, 2811, 2814, 2817, 2819, 2820, 8000.

Crew Requirement. Core skill proficient DASC Crew.

ACAD-4055 1.0 * B (N) G

Goal. Describe Naval Composite Warfare

Requirement

Perform the following:

1. Define Composite Warfare Commander (CWC) Doctrine
 - a. Collaborative Planning
 - b. Decentralized Control and Execution
 - c. Command by Negation
2. Define CWC structure and describe the following
 - a. Officer in Tactical Command
 - b. Tactical Command Organization
 - c. Warfare Commanders (S, X, Z, P, W, Q)
 - d. Functional Group Commanders (U, J, G, N, URG CDR)
 - e. Coordinators (R, H, L)

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 4055 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	BI	DASC ASOO (7242)

References. 1. 1. JP 3-0 Joint Operations

2. 2. JP 3-32 Command and Control for Joint Maritime Operations

3. 3. NWP 3-56 Composite Warfare: Maritime Operations at the Tactical Level of War

4. 4. NWP 3-02 1.4M / MCWP 3-31.8 Defense of the Amphibious Task Force

5. 5. Littoral Operations in a Contested Environment

6. 6. MCRP 3-20.2 MTP for Air Operations in Maritime Surface Warfare

ACAD-4105 1.0 1095 B, R, M (N) G

Goal. Describe Air Operations in Maritime Surface Warfare

Requirement

Perform the following:

1. Define Air Operations in Maritime Surface Warfare (AOMSW).
2. Define the maritime domain
3. Discuss the four AOMSW mission sets.
4. Discuss the differences between air operations over land and sea.
5. Describe the CWC tactical areas.
6. Describe the engagement zone delineation.
7. Identify the nine communications networks used during a surface warfare mission involving aviation.
8. Define an Aircraft Control Unit (ACU).
9. Identify which warfare commander the ACU is an extension of.
10. Describe the difference between air intercept control (AIC) and maritime air control (MAC) duties.
11. Describe the responsibilities of an ACU conducting MAC.
12. Describe mission planning considerations of AOMSW.
13. Describe the ACU communications flow.
14. Describe the MAC format.
15. Describe the general SUW procedures.
16. Describe the differences between ICEPACK and GREEN CROWN.
17. Identify Maritime Air Operations (AIR-MAR) brevity codes.

Performance Standards. Pass an exam.

Instructor

AND/OR	If Event 4105 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	G	SI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20.2 MTTP for Air Operations in Maritime Surface Warfare

2. 2. MCRP 3-30B.1 MTTP for Multi-Service Brevity Codes

4.13.2 Controller (CTRL(4)) (CTRL(4))

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.

CTRL-4200 4.0 365 B, R, M (N) L/S

Goal. Control FW or RW aircraft - Basic 1

Requirement

Given a scenario, supporting documentation, conduct the following tasks.

1. Conduct an HD or TAD Crew Brief and Debrief.
2. Perform the DASC Control Method using correct R/T Procedures.
3. Procedurally control the aircraft.
4. Route the aircraft.
5. Divert the aircraft.

6. Maintain a complete and accurate log.
7. Pass/Receive immediate air support requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

Performance Standards. 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

AND/OR	If Event 4200 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	BI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

4.13.3 Helicopter Director (HD(4)) (HD(4))

Purpose

To develop proficiency in procedurally controlling manned and unmanned aircraft.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:
 - a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.
3. Prior to achieving mission skills proficiency as a DASC Helicopter Director, the trainee shall control at least (1) live aircraft.

Prerequisite. 4200 and proficiency in Core and Mission Skill Events.

Crew Requirement. A crew supporting direct air support functions.

HD-4300 10.0 * B (N) L/S

Goal. Control RW aircraft.

Requirement

Given a scenario, supporting documentation, and a direct air support agency, conduct the duties of a HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Perform the DASC Control Method 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/Receive immediate air support requests.
8. Demonstrate proper processing of all received information and routing and passing information within the system.

26 Oct 22

Performance Standards. 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

	If Event 4300 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 4300 Conducted In		If 4300 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				4200

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

HD-4305 **10.0 1095 B, R, M** **(N) L/S**

Goal. Control RW aircraft IAW the Qualification Standard.

Requirement

Given a scenario, the Qualification Standard (12 ATO Missions, 4 Immediate Air Support Requests, and 3 Fire Missions per hour), supporting documentation, a direct air support agency, conduct the duties of a HD to include:

1. Conduct an HD Crew Brief and Debrief.
2. Perform the DASC Control Method 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/Receive immediate air support requests.
8. Demonstrate proper processing of all received information and routing and passing information within

Performance Standards. 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

	If Event 4305 Is		Required Instructor	
AND/OR	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
	If 4305 Conducted In		If 4305 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				4300
AND	(N)	L/S				6200

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

4.13.4 Tactical Director (TAD(4)) (TAD(4))

Purpose

To develop proficiency in procedurally controlling manned and unmanned aircraft.

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. Qualification Standard. The purpose of the Qualification Standard is to ensure Marines in all crew positions experience complex, combat stressors related to the MASS METL. While a DASC crew is a team comprised of individual crew positions, it is artificial to gain qualification outside of the context of a functioning crew. The following metrics will be applied:
 - a. Average per hour: 12 ATO Missions, 4 immediate air support requests, and 3 fire missions.
3. Prior to achieving mission skills proficiency as a DASC Tactical Air Director, the trainee shall control at least (1) live aircraft.

Prerequisite. 4200 and proficiency in Core and Mission Skill Events.

Crew Requirement. A crew supporting direct air support functions.

TAD-4350 10.0 * B (N) L/S

Goal. Control FW aircraft.

Requirement

Given a scenario, supporting documentation, a direct air support agency, conduct the duties of a TAD to include:

1. Conduct a TAD Crew Brief and Debrief.
2. Perform the DASC Control Method 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/Receive immediate air support requests.
8. Demonstrate proper processing of all received information and routing and passing information within

Performance Standards. 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

AND/OR	If Event 4350 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 4350 Conducted In		If 4350 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				4200

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

TAD-4355 **10.0 1095 B, R, M** **(N) L/S**

Goal. Control FW aircraft IAW the DASC Qualification Standard.

Requirement

Given a scenario, the Qualification Standard (12 ATO Missions, 4 Immediate Air Support Requests, and 3 Fire Missions per hour), supporting documentation, conduct the duties of a TAD to include:

1. Conduct a TAD Crew Brief and Debrief.
2. Perform the DASC Control Method 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/Receive immediate air support requests.
8. Demonstrate proper processing of all received information and routing and passing information within

Performance Standards. 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

AND/OR	If Event 4355 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 4355 Conducted In		If 4355 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				4300
AND	(N)	L/S				6200

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

4.13.5 Familiarization (FAM(4)) (FAM(4))

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.

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.

FAM-4410 **1.0 1095 B, R, M** **(N) G**

Goal. Observe the configuration and operation of a Supporting Arms Coordination Center.

Requirement

Observe a SACC.

Performance Standards. Complete a tour of a SACC.

References. 1. 1. JP 3-02, Amphibious Operations

FAM-4415 **1.0** * **B** **(N)** **G**

Goal. Observe the configuration and operation of a Navy Tactical Air Control Center.

Requirement

Observe an operational NTACC.

Performance Standards. Complete a tour of a NTACC.

References. 1. 1. JP 3-02, Amphibious Operations

4.14 MISSION PLUS PHASE

Purpose. The purpose of this phase is to instruct...

General. *as required or remove the line*

Admin Notes

MISSION PLUS PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
CTRL(45)	4.15.1	4-85
TDL(4)	4.15.2	4-86
C2SYS(4)	4.15.3	4-89

4.15 MISSION PLUS STAGES

4.15.1 Controller (CTRL(45)) (CTRL(45))

CTRL-4505 **4.0** **365** **B, R, M** **(N)** **L/S**

Goal. Control FW or RW aircraft in support of Maritime Surface Warfare

Requirement

Given a scenario, supporting documentation, conduct the following tasks:

1. Procedurally control an aircraft during Surface Surveillance Coordination (SSC)
 - a. Assign the aircraft a search location
 - b. Procedurally control the aircraft using geo-references, bearing and range, or search pattern
 - c. Process and forward identification and tracking of surface and subsurface targets
2. Control a strike on a surface target
 - a. Receive tasking from the SCC
 - b. Assign an aircraft
 - c. Brief a 9-line or 6-line
 - d. Procedurally control the aircraft
 - e. Process BHA

Performance Standards. 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

AND/OR	If Event 4505 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 4505 Conducted In		If 4505 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L/S				4105
AND	(N)	L/S				4200

References. 1. 1. JP 3-0 Joint Operations

2. 2. JP 3-32 Command and Control for Joint Maritime Operations

3. 3. NWP 3-56 Composite Warfare: Maritime Operations at the Tactical Level of War

4. 4. NWP 3-02 1.4M / MCWP 3-31.8 Defense of the Amphibious Task Force

5. 5. Littoral Operations in a Contested Environment

6. 6. MCRP 3-20.2 MTTP for Air Operations in Maritime Surface Warfare

4.15.2 Tactical Data Link (TDL(4)) (TDL(4))**TDL-4835 3.0 * B (N) L/S**Goal. Setup Link 16.Requirement

Given a C2 system with a malfunctioning Link 16:

1. Review the operational documents and determine the correct IDL files for your host system
2. Set-up and connect link-16 antenna via appropriate RF cable to host system or link 16 radio
3. Verify that the link-16 radio is properly cabled to itself and the host system for Link-16 data and voice operations
4. Energize the link-16 radio
5. Load the appropriate keying material into the correct slot of the link 16 radio per operational documents.
6. Use the operational documents to configure the system for link 16 operations via the System Manager and the MIDS Terminal Control
7. Verify link is operating properly

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

AND/OR	If Event 4835 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

References. 1. 1. Software Administrator's Manual (SAM) for AC2S TM 11402B/12506A/12714A-15/111

2. 2. MIL-STD-6016, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

3. 3. Software User's Manual (SUM) for AC2S TM 11402B/12506A/12714A-15/112

TDL-4839 2.0 * B (N) L/SGoal. Setup JREAP B equipment

4. 4. MIL-STD-3011, JREAP Interface Standard

TDL-4845 3.0 1095 B, R, M (N) L/SGoal. 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 Standards. Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.Instructor

AND/OR	If Event 4845 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 4845 Conducted In		If 4845 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				2836

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

2. 2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

3. 3. C2 System Technical Manual

TDL-4847 3.0 * B (N) L/SGoal. 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 Standards. Complete the requirement items IAW the reference; minor errors corrected by the trainee are acceptable.Instructor

AND/OR	If Event 4847 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 4847 Conducted In		If 4847 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				2840

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

2. 2. MIL-STD-6016_, Department of Defense Interface Standard, Tactical Data Link (TDL) 16

3. 3. C2 System Technical Manual

4. 4. MIL-STD-3011, JREAP Interface Standard

TDL-4848 3.0 * B (N) L/S

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 communicationGÇÖs section to open blocked ports.
3. Elevate unresolvable issues.

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

Instructor

AND/OR	If Event 4848 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 4848 Conducted In		If 4848 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				2842

References. 1. 1. MIL-STD-6016_, DoD Interface Standard, Tactical Data Link (TDL) 16

2. 2. Software User's Manual for AC2S TM 11402B/12506A/12714A-15/112 (SUM)

3. 3. MIL-STD-3011, JREAP Interface Standard

4.15.3 C2 Systems (C2SYS(4)) (C2SYS(4))

C2SYS-4904 1.0 * B (N) G

Goal. Demonstrate proficiency with TBMCS Web Mapping.

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Start Map Manager.
2. Initiate WEBEM Map Control Panel (EMMCP).
3. View a map from within a map plotting application.

4. Set Mouse Mode and Map Units.
5. Set the map projection, background and opacity.
6. Navigate a map.
7. Locate an object by entering coordinates.
8. Use the coordinates tool to convert between Lat/Long (decimal and degrees) and MGRS.
9. Use highlight.
10. Center and activate/remove functions.
11. Toggle layer visibility and change order of layers.
12. Set the Gestures Mouse Mode and Selection Tolerance.
13. Set line width, symbol size, highlight color and label visibility.
14. Save, restore and delete preference.
15. Save and print the current map display.
16. Stop Map Manager.

Performance Standards. With the aid of references, launch the Map Manager and manipulate a map with missions, ACMs, air bases, targets or units displayed.

References. 1. 1. TBMCS User's Manual

C2SYS-4905	1.0	*	B	(N)	G
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Goal. Demonstrate proficiency utilizing the Air Tasking Order Airspace Control Order Tool (AATWEB).

Requirement

Given an operational TBMCS and training materials, conduct the following for a total of five ATO and five ACO messages:

1. Initiate the AAT application.
2. View, sort, filter, and print received ATO and ACO messages.
3. Export into a document format (Excel, Text).
4. Delete ATO and ACO messages.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4906	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency with the TBMCS Web Based Airspace

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Initiate a WEBAD Session.
2. Connect WEBAD to WebMap.
3. Create an airspace group for the utilization of theater airspace in current and future operations (airspace group becomes the ACO).
4. Enter Airspace Coordinating Measures (ACMs).
5. Create ACMs circle, corridor, line, orbit, point, polygon, poly-arc, rad-arc, track.
6. Provide ACM comments using the comments tab.
7. Create an ACM using a map.
8. Create, edit and copy a Filter.
9. Move ACMs to another airspace group.
10. Copy ACMs to another airspace group.
11. Change the state of ACMs.

12. Set ACMs time.
13. Shift ACMs in time.
14. Shift ACMs in location.
15. Map ACMs connect to the map.
16. Clear ACMs from the map.
17. Display the legend.
18. Create a deconfliction filter.
19. Determine a conflict between ACMs.
20. Specify the criteria for determining a conflict between ACMs.
21. Determine if a conflict may exist among ACMs.
22. Create, edit, and copy deconfliction filters.
23. Generate and print a conflict report.
24. Determine airspace deconfliction over multiple ACM Groups based on:
 - a. Mean Sea Level (MSL).
 - b. Above Ground Level (AGL) calculations.
 - c. Display ACMs and associated conflicts on a map.
25. Edit and copy the airspace group.
26. Create, edit and copy, preferences.
27. Edit or view ACMs by filtering using:
 - a. ACM Groups.
 - b. ACM Types.
 - c. ACM Usages.
28. Export ACMs to a file.
29. Release an ACO.
30. Create an Airspace Control Order (ACO) message.
31. Change ACO tab information.
32. Change Declassification tab information.
33. Release tab information.
34. Preview the ACO before it is released and approved.
35. Publish the ACO.
36. Generate the ACO Message.
37. Validate ACO Message Body.
38. Release the ACO message to AATWEB.
39. Generate an ACO change message.
40. Change an existing ACO.
41. Publish the ACO change.
42. Generate the ACO change message.
43. Validate ACO change message body.
44. Release the ACO change message to AATWEB.
45. Delete the following:
 - a. An ACO and all its changes.
 - b. An airspace usage.
 - c. A filter.
 - d. An airspace group.
 - e. Deconfliction filters.
 - f. User preference.

Performance Standards. With the aid of references, complete the required items IAW the reference.

References. 1. 1. TBMCS User's Manual

C2SYS-4907 1.0 * B (N) G

Goal. Demonstrate proficiency generating TBMCS battle management reports.

Requirement

Given an operational TBMCS and training materials, generate the following battle management reports:

1. ABP/ATO apportionment.
2. ABP/ATO history.
3. AETACS.
4. Airbase and munitions status.
5. Air defense unit.
6. Airlift.
7. Alert status summary.
8. Base runway.
9. Electronic combat.
10. Escort.
11. Friendly unit aircraft.
12. GTACS mission.
13. GTACS status.
14. Missile mission.
15. Missile unit.
16. Mission.
17. Mission deviations.
18. Mission re-role.
19. Mission sortie recap.
20. Tanker.
21. Target simple.

Performance Standards. With the aid of references, generate and manipulate five of the required items pertinent to the crew position with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4908 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency with the TBMCS Air Battle Information Monitoring (ABIM) tool.

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Select, deselect, and monitor the Air Operations Database (AODB) for changes in:
 - a. Mission Status/Mission Type.
 - b. Mission Status/Unit ID.
 - c. Base Status Change.
 - d. Ground Control Unit Status Change.
 - e. Deviation.
 - f. Runway Status Change.
 - g. Weather Status Change.
2. Generate alerts to notify specified users.
3. Setup filters for alerts.
4. Designate how alerts are received.
5. Store alerts in an Alert Log.

Performance Standards. With the aid of references, complete the required items IAW the reference.

References. 1. 1. TBMCS User's Manual

C2SYS-4909 **2.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency using the TBMCS Force Status and Monitoring (FSTAT) tool to monitor and update Friendly Order of Battle (FrOB) status.

Requirement

Given an operational TBMCS and training materials, the operator will report, display, and modify FrOB status:

1. Select and describe the below listed status webpages:
 - a. ADA (Air Defense Artillery) Unit Status.
 - b. Aircraft Unit Status.
 - c. Base Status.
 - d. Surface C2 Unit Status.
 - e. Missile Unit Status.
 - f. Fire Unit Status.
2. Perform the following FSTAT functions for a selected status webpage:
 - a. Drag and drop setting of column display order.
 - b. Show/hide columns.
 - c. Multi-level column complex sort capability.
 - d. Quick sort by clicking on the column header.
 - e. Dragging to adjust column widths.
 - f. Automatic restore of GUI customization settings.
 - g. Local/Zulu selectable time display with user selectable time zone.
 - h. Multi-column, multi-value filtering.
 - i. Saving of user defined filters.
 - j. Visual indication of update status.
 - k. Table printing.
 - l. Copy of main table to clipboard for paste into Microsoft (MS) Excel.
 - m. Status bar with appropriate record counts, queued transaction counts, and connectivity status.
 - n. Color coding of status values.
 - o. Plotting of information to the associated map product.

Performance Standards. With the aid of references, perform five of the required items for a selected status webpage.

References. 1. 1. TBMCS User's Manual

C2SYS-4912 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate proficiency with TBMCS Marine Corps Air Mission Planner (MCAMP) for Mission Replanning.

Requirement

Given an operational TBMCS and training materials, complete the following:

1. Initiate MCAMP.
2. Edit a selected mission.
3. Generate ATO Change.
4. Exit MCAMP.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4913	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency importing an airspace group in TBMCS.

Requirement

Given an operational TBMCS and training materials, complete the following in order to import airspace:

1. Open the ABP in setup mode.
2. Open the Airspace Group Import menu.
3. Perform an initial or incremental import of selected airspace.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4914	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency creating a TBMCS Air Battle Plan (ABP) shell.

Requirement

Given an operational TBMCS and training materials, create an ABP shell that will correspond with the execution dates of the Air Tasking Order (ATO) using:

1. A new shell.
2. An existing ABP.

Performance Standards. With the aid of references, complete the required items.

References. 1. 1. TBMCS User's Manual

C2SYS-4915	2.0	*	B	(N)	G
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Goal. Demonstrate proficiency creating ground targets in TBMCS.

Requirement

Given an operational TBMCS and training materials, create preplanned ground targets by performing the following:

1. Open the ABP.
2. Open the Ground Target Requests menu.
3. Open the Target Nomination List Table and append the line.
4. Enter the required information for each preplanned target.
5. Save the target information.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4916	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency creating missions in TBMCS.

Requirement

Given an operational TBMCS and training materials, create missions by performing the following:

1. Open the ABP.

2. Open the appropriate mission planning window for the type of mission being planned.
 - a. Wide Area Geographic (WAG).
 - b. Ground Alert.
 - c. Air Location.
 - d. Air Move.
 - e. Air Drop.
 - f. Ground Target.
 - g. Maritime Target.
 - h. Missile Target.
 - i. Reconnaissance.
 - j. Tanker.
3. Fill out required blocks of the mission planning form.
4. Save the mission.
5. Verify if mission is flyable and adjust accordingly.
 - a. Deconflict airspace.
 - b. Deconflict with other missions.
 - c. Create and pair tanker support to mission.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4917	1.0	*	B	(N)	G
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Goal. Demonstrate proficiency publishing the ATO.

Requirement

Given an operational TBMCS and training materials, publish the completed ATO by performing the following:

1. Open the ABP.
2. Export the Friendly Order of Battle.
3. Approve missions.
4. Generate/Validate the ATO.
5. Send ATO to ATO / ACO Tool (AAT)/IRIS.
6. Set ABP to execute

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. TBMCS User's Manual

C2SYS-4921	4.0	*	B	(N)	G
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Goal. Demonstrate proficiency operating C2 Personal Computer (C2PC).

Requirement

Given a computer with the current version of C2PC installed, a functional network and Common Tactical Picture (CTP) architecture, perform the following:

1. Initiate the C2PC application.
2. Describe key areas of the C2PC main window.
3. Configure C2PC for communications with a gateway.
4. Configure the display.
5. Load digital map products.

26 Oct 22

6. View digital map products.
7. View and manipulate charts.
 - a. Center/width.
 - b. Map pan.
 - c. Create and view multiple maps/charts.
 - d. Map colors.
 - e. Blank map.
 - f. Map features.
 - g. Full screen (F11).
 - h. Copy map as bitmap or JPEG.
8. Set plot options.
9. Create, modify and filter tracks in a Common Tactical Picture (CTP).
10. Use declutter option.
11. Use injector manager.
12. Create, modify, display, and analyze C2PC routes.
13. Create, modify, and save a C2PC overlay.
14. Import and export coordinates from an overlay file.
15. Export and transmit a C2PC overlay.
16. Save map.
17. Configure the Effects Management Tool (EMT) for communication to an AFATDS server.
18. Demonstrate how to filter EMT data for the CTP.
19. Take a screenshot of the C2PC display.
20. Exit C2PC.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. Manufacturer's Operating Instructions

2. 2. Manufacturer's Technical Instructions and Publications

C2SYS-4924 1.0 1095 B, R, M (N) G

Goal. Demonstrate proficiency operating Joint Automated Deep Operations Coordination System (JADOCS).

Requirement

Given a functional JADOCS system and training materials, perform the following:

1. Initiate JADOCS application.
2. Identify capabilities of JADOCS.
3. Locate and identify all items on the JADOCS User Interface.
4. Demonstrate usage and management of User Preferences in JADOCS.
5. Demonstrate usage and management of Tools available in JADOCS.
6. Demonstrate usage and display of View Menu options.
7. Employ the JADOCS Supported Map Products.
8. Manage, develop and maintain overlays using the JADOCS client workstation.
9. Demonstrate usage and management of Filters available in JADOCS.
10. Demonstrate usage of the COMS Menu option.
11. Demonstrate usage, use of Tools and filtering of Track Manager.
12. Demonstrate usage, use of Tools and filtering of Units Manager.
13. Conduct Operations using Coordination Manager and associated tools.
14. Manage and Conduct C2 operations using JADOCS database menus and functions.
15. Conduct Operations using Engagement Zone Manager and associated tools.
16. Demonstrate usage and filtering of Counterfire Mission Manager.
17. Demonstrate usage of the Fires Manager.

18. Conduct Operations using Joint Fires Manager and associated tools.
19. Conduct Operations using Target Data Nominator Manager and associated tools.
20. Conduct Operations using Joint Time Sensitive Targets Manager and associated tools.
21. Conduct Operations using the ITO Manager and associated tools.
22. Track and Take Action XINT and Mobile Target Missions in the ITO Execution Manager.
23. Demonstrate usage of JADOCS management tool bars.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects.

References. 1. 1. DCOCSOP Digital COC SOP for Battalion Operations in Irregular Warfare
2. 2. JADOCS ver 1.0.3.5 Build 25 Mar 2008 Joint Automated Deep Operations Coordination System

C2SYS-4941 4.0 * B (N) G

Goal. Demonstrate proficiency operating Web Development Software (i.e., SharePoint).

Requirement

Given a workstation and a functional communications network, perform the following:

1. Use the Quick Launch Bar.
2. Delete an item.
3. Restore a deleted item.
4. Search the site for an identified object.
5. Create an announcement.
6. Create an event.
7. Add a link.
8. Create a task.
9. Create a contact.
10. Edit a list item.
11. Export list items to Outlook.
12. Export list items to a spreadsheet.
13. Use project tracking.
14. Open a document.
15. Edit a document.
16. Check out a document.
17. Check in a document.
18. Create a new folder.
19. Create a new document.
20. Upload a document.
21. View version history.
22. Upload a picture to a library.
23. Edit a picture.
24. Delete a picture.
25. Create an alert.
26. Create a new discussion thread.
27. Read and reply to a discussion thread.
28. Respond to a survey.
29. Export survey results.
30. View survey results.
31. Add a web part.
32. Remove a web part.
33. Modify a web part.

Performance Standards. With the aid of references, complete the required items with minimal errors provided the trainee self corrects. Requirement is met by completion of MISTC SharePoint I.

References. 1. 1. SharePoint Users Guide: www.microsoft.com/sharepoint

4.16 INSTRUCTOR TRAINING PHASE

Purpose. 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. 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.

General.

Admin Notes. None.

INSTRUCTOR TRAINING PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
BI(5)	4.17.1	4-98
SI(5)	4.17.2	4-101

4.17 INSTRUCTOR TRAINING STAGES

4.17.1 Basic Instructor (BI(5)) (BI(5))

Purpose

To train the individual Marine in the skills required to lead a period of instruction.

BI-5000	2.0	*	B	(N)	L
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Goal. Introduce principals of instruction.

Requirement

Given the reference, the BIUT will demonstrate the following with the assistance of a unit instructor:

1. Adult learning principles.
 - a. Pedagogy to andragogy.
 - b. Characteristics of the adult learner.
 - c. Learning styles.
 - d. How adults learn.
 - e. Domains of learning.
 - f. Group dynamics.
 - g. Motivation.
 - h. Constructivist learning environments.
2. Introduce, discuss, and demonstrate instruction techniques.
3. Introduce, discuss, and demonstrate class management techniques.
 - a. How to select teaching resources to accommodate student learning styles.
 - b. How to properly organize the instructional environment for effective learning.

Performance Standards. With the aid of references, the BIUT shall demonstrate principles of instruction. During this session, the instructor shall discuss the event content and question the student throughout the training to ensure understanding.

Instructor

	If Event 5000 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L		BI	DASC ASOO (7242)

- References. 1. 1. Adult Learning section, Systems Approach to Training Manual (2004)
2. 2. NAVMC 3500.14, Aviation Program Manual
3. 3. NAVMC 1553.1, Systems Approach to Training

BI-5010 **2.0** ***** **B** **(N)** **G**

Goal. Describe individual T&R requirements.

Requirement

Using the Aviation T&R Program Manual, discuss the purpose of each of the following items with an instructor:

1. Training progression model.
2. Programs of Instruction.
 - a. Basic.
 - b. Refresher.
 - c. Conversion.
 - d. Series Conversion.
 - e. Transition.
 - f. Maintain.
3. T&R attain and maintain tables.
4. Syllabus notes.
5. T&R syllabus structure.
 - a. Phase.
 - b. Stage.
 - c. Event.
 - d. Skill.
 - e. Syllabus.
6. Event format.
 - a. Header.
 - (1) Event prefix - event code.
 - (2) Projected event duration.
 - (3) Proficiency period.
 - (4) Programs of instruction (POI).
 - (5) Event conditions.
 - (6) Device options.
 - (7) Device number.
 - (8) Device type.
 - b. Body.
 - (1) Goal.
 - (2) Requirement.
 - (3) Performance standard.
 - (4) Equipment.

Performance Standards

Without the aid of references and during a discussion session, the BIUT shall describe Individual T&R requirements.

During this session, the instructor shall discuss the event content and question the student throughout the training session to ensure understanding.

- References. 1. 1. NAVMC 3500.14, Aviation Program Manual
2. 2. NAVMC 1553.1, Systems Approach to Training

BI-5020 **12.0 90** **B, R** **(N) L**

Goal. Conduct T&R instruction.

Requirement

The BIUT, under the supervision, will conduct periods of instruction on three different T&R events selected by the instructor to include as many different methods of instruction as possible

Lecture, academic, demonstration, and practical application.

The BIUT will complete the following for each of the three events instructed:

1. Prepare to train the event.
 - a. Review a trainee's performance record to identify required training for the event selected.
 - b. Ensure the student has met prerequisites for the event to be trained.
 - c. Gather the resources necessary to conduct the training (i.e., instructional materials, references, and equipment).
 - d. Conduct task analysis on each event to ensure all intended requirements and prerequisite skills, specified or implied, are trained IAW applicable references.
 - e. Schedule the training event (facilities and students).
 - f. Prepare an evaluation form for each student to be evaluated.
2. Conduct training on the event selected:
 - a. Ensure all training resources are properly staged/equipment if set up properly for training.
 - b. Instruct the student in a thorough manner so as to cover all requirements for the event.
 - c. Ensure continuous, objective assessment of the student's progress during training.
3. Assess student performance:
 - a. Assess the student's performance to the performance standard.
 - b. Correct student deficiencies in a timely manner and provide the student feedback.
 - c. Complete the evaluation form on for each student trained.
 - d. Debrief student on the performance and provide corrective action.
4. Route evaluation form as required.

Performance Standards

Complete the requirement items IAW the reference and ensure training is doctrinally and technically current.

Instructor shall use the instructor evaluation form from the SAT userG+ç+ûs guide for each class and a mark of satisfactory must be achieved for each of the three classes.

Instructor

AND/OR	If Event 5020 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 5020 Conducted In		If 5020 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5000
AND	(N)	L				5010

References. 1. 1. NAVMC 3500.14, Aviation Program Manual

2. 2. NAVMC 1553.1, Systems Approach to Training

3. 3. MCO 1553.2B, Formal Schools Management

4.17.2 Senior Instructor (SI(5)) (SI(5))

SI-5100 **2.0** ***** **B** **(N)** **G**

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

Requirement

Using the community T&R manual discuss the following with an instructor:

1. Describe the Weapons and Tactics Training Program (WTTP).
2. Define each element of the Core Model:
 - a. Mission statements.
 - b. Core Mission Essential Task List (METL).
 - c. Output standards.
 - d. Core skills (How to attain and maintain).
 - e. Mission skills (How to attain and maintain).
 - f. Combat Leadership
3. Define each of the following elements of unit training:
 - a. Training Exercise Employment Plan (TEEP).
 - b. Core Model Minimum Requirements (CMMR).
 - c. Instructors.
 - d. Core Model Training Report (CMTR).
 - e. T&R manual connection to readiness reporting.
4. Define each of the following elements of training:
 - a. Certification.
 - b. Qualification.
 - c. Designation.
5. Explain how changes are made to the Program manual:
 - a. Explain T&R conference procedures.
 - b. Explain correspondence change procedures.

Performance Standards. Complete the requirements IAW the reference. Instructor will question the SIUT to check for thorough understanding of the Aviation T&R Program.

References. 1. 1. NAVMC 3500.14, Aviation T&R Program Manual

2. 2. MCO 3500.109A, Marine Corps Aviation Weapons and Tactics Training Program

SI-5110 **4.0** **365** **B, R** **(N)** **L**

Goal. Conduct instructor evaluations.

Requirement

Using the instructor evaluation checklist from the SAT manual, conduct two evaluations on instructors of equal or lower designation.

1. Provide notification of evaluation to the instructor being evaluated.
2. Do not interfere with or disrupt the instruction while taking place.
3. Thoroughly document observed items on the checklist.
4. Ensure student evaluation form is filled out correctly and the appropriate debrief took place.
5. Debrief the instructor being evaluated on their preparation, instruction, evaluation, and documentation.
6. Have the evaluated instructor complete the instructor improvement plan section and sign.
7. File a copy of the completed evaluation form in both the evaluator's and evaluated instructor's performance record.

Performance Standards. Complete the requirements IAW the reference.

	If Event 5110 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L		SI	DASC ASOO (7242)

EVENTS						
	If 5110 Conducted In		If 5110 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5100

3. 3. MCO1553.2B, Formal Schools Management

SI-5120	2.0	*	B	(N)	L
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1. Performance records.
2. Ensure MSHARP is updated appropriately.
3. Assemble recommendation package for certifications, qualifications, and designations IAW T&R manual.

	If Event 5120 Is			Required Instructor	
AND/OR	CONDUCTED In		Not QUALIFIED	Designation	SYLLABUS
	(N)	L		SI	DASC ASOO (7242)

EVENTS						
	If 5120 Conducted In		If 5120 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5100
AND	(N)	L				5110

3. 3. <http://msharpsupport.com>

SI-5130 **2.0** ***** **B** **(N)** **L**

4-102

Requirement

Given a deployment scenario develop a training plan to determine individual, and crew training needed to meet CMMR by completing the following:

1. Review Commander's training guidance.
2. Analyze the CMTR to determine training deficiencies and how to achieve CMMR.
3. Identify and schedule T&R training opportunities IAW the TEEP to achieve requirements.
4. Determine instructors required.
5. Determine equipment required.
6. Determine external support required.
7. Deliver a brief to the instructor that shows:
 - a. Crew manning and training requirements.
 - b. Current training status.
 - c. Identify the training deficiencies and resource shortfalls.
 - d. Explain the training plan to correct the training deficiencies.
 - e. Training plan meets commander's guidance.

Performance Standards. Complete the requirement items IAW the references and commander's training guidance. Training plan will ensure adequate time is allocated to include preparation, instruction, assessment, documentation, and remediation.

Instructor

AND/OR	If Event 5130 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	SI	DASC ASOO (7242)

Prerequisites

EVENTS						
AND/OR	If 5130 Conducted In		If 5130 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	L				5100
AND	(N)	L				5110
AND	(N)	L				5120

References. 1. 1. NAVMC 3500.14, Aviation Program Manual

2. 2. Applicable Community T&R manuals

4.18 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) PHASE

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.

General.

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.

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4.19 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, DESIGNATIONS (RCQD) STAGES4.19.1 Schools (SCHL(6)) (SCHL(6))Purpose

To provide tracking codes for required schools and training.

Admin Notes

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-6000	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Weapons and Tactics Instructor (WTI).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6010	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Airspace Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6011	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Personnel Recovery Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6012	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Complete Plans/Ops Technician Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6015 0.5 * B (N) G

Goal. Complete Joint Air Operation Center Command and Control Course (JAOC2C) Airspace Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6016 0.5 * B (N) G

Goal. Complete Joint Air Operations Senior Staff Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6020 0.5 * B (N) G

Goal. Complete Link 16 Basics Course (JT-100)

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6021 0.5 * B (N) G

Goal. Intro to Multi TDL Network (JT-101).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6022 0.5 * B (N) G

Goal. Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6023	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Link 16 Joint Interoperability Course (JIC) (US-109)

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6024	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Multi TDL Planner Course (JT-201).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6025	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Link 16 Unit Manager (LUM) Course (JT-220).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6026	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Joint Interface Control Officer (JICO) (JT-301).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6027	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Advanced JICC Operator Course (JT-310).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6028 **0.5** ***** **B** **(N)** **G**

Goal. Air Defense Systems Integrator (ADSI) Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6067 **0.5** ***** **B** **(N)** **G**

Goal. Military Airspace Management Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6072 **0.5** ***** **B** **(N)** **G**

Goal. Advanced Field Artillery Tactical Data System (AFATDS).

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6079 **0.5** ***** **B** **(N)** **G**

Goal. JRE-GW OperatorsGCÖ Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6082 **0.5** ***** **B** **(N)** **G**

Goal. Joint Firepower Course.

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6096	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Respective Instructor Development Course.

Performance Standards. N/A

References. 1. None.

SCHL-6106	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Amphibious Airspace Operations Coordination, CID: N03RCDM

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6107	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Amphibious Warfare Indoctrination, CID: N03RCDM

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6108	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Intermediate Amphibious Operations, CID: N30M2T1

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6109	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Supporting Arms Coordination Center, CID: N03M031

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

SCHL-6111	0.5	*	B	(N)	G
------------------	------------	----------	----------	------------	----------

Goal. Joint Maritime Tactics Course

Requirement

Successfully complete course curriculum.

Performance Standards. N/A.

References. 1. None.

4.19.2 Qualifications (QUAL(6)) (QUAL(6))

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.

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.

QUAL-6200 0.5 * B (N) G

Goal. Qualify as an ACR.

Requirement

Complete the required training in the ACR POI.

Performance Standards. Proficiency demonstrated in prerequisites. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Prerequisites

EVENTS						
	If 6200 Conducted In		If 6200 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3275

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

QUAL-6205 0.5 * B (N) G

Goal. Qualify as a TAR/HR Operator.

Requirement

Complete the required training in the TAR/HR POI.

Performance Standards. Proficiency demonstrated in prerequisites. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Prerequisites

EVENTS						
	If 6205 Conducted In		If 6205 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3055
AND	(N)	G				3856

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

QUAL-6210 **0.5** ***** **B** **(N)** **G**

Goal. Qualify as a TAC/DAS Net Operator.

Requirement

Complete the required training in the TAC/DAS Net Operator POI.

Performance Standards. Proficiency demonstrated in prerequisites. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Prerequisites

EVENTS						
	If 6210 Conducted In		If 6210 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3105

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

QUAL-6215 **0.5** ***** **B** **(N)** **G**

Goal. Qualify as Fire Support Coordination Net Operator.

Requirement

Complete the required training in the FSC Net Operator POI.

Performance Standards. Proficiency demonstrated in prerequisites. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Prerequisites

EVENTS						
	If 6215 Conducted In		If 6215 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3155
AND	(N)	G				3856

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

QUAL-6220 **0.5** ***** **B** **(N)** **G**

Goal. Qualify as an IDM.

Requirement

Complete the required training in the IDM POI.

Performance Standards. Proficiency demonstrated in prerequisites. Be observed and recommended by a WTI to the commanding officer who will approve the qualification in writing.

Prerequisites

EVENTS						
	If 6220 Conducted In		If 6220 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3005
AND	(N)	G				3850
AND	(N)	G				3851
AND	(N)	G				6205

EVENTS						
	If 6220 Conducted In		If 6220 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
AND	(N)	G				6215

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

QUAL-6225 **2.0** ***** **B** **(N)** **G**

Goal. Qualify as a DASC CC.

Requirement

1. Minimum of 3 board members, to include at least:
 - a. WTI (either SAD or CC), SAD, and CC.
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 Standards

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.

Prerequisites

EVENTS						
	If 6225 Conducted In		If 6225 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3205
AND	(N)	G				6200
AND	(N)	G				6205
AND	(N)	G				6210
AND	(N)	G				6215
AND	(N)	G				6220

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

QUAL-6230 **0.5** ***** **B** **(N)** **G**

Goal. Qualification as an HD.

Requirement

Complete the required training in the HD POI.

Performance Standards. 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.

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Prerequisites

EVENTS						
	If 6230 Conducted In		If 6230 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				4305

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

QUAL-6235 **0.5** ***** **B** **(N)** **G**

Goal. Qualification as a TAD.

Requirement

Complete the required training in the TAD POI.

Performance Standards. 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.

Prerequisites

EVENTS						
	If 6235 Conducted In		If 6235 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				4355

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

4.19.3 Designations (DESG(6)) (DESG(6))Purpose

To provide for the designation of combat leaders and instructors.

Admin Notes

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.

DESG-6300 **0.5** ***** **B** **(N)** **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 Standards. N/A.

Prerequisites

EVENTS						
	If 6300 Conducted In		If 6300 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				3250

References. 1. None.

DESG-6320 **0.5 * B** **(N) 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 Standards. N/A.

Prerequisites

EVENTS						
	If 6320 Conducted In		If 6320 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				5000
AND	(N)	G				5010
AND	(N)	G				5020

References. 1. None.

DESG-6321 **0.5 * B** **(N) G**

Goal. Designation as a Senior Instructor (SI).

Requirement

Be recommended for BI designation by a SI or WTI and designated in writing by the commanding officer.

Performance Standards. N/A.

Prerequisites

EVENTS						
	If 6321 Conducted In		If 6321 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				5000
AND	(N)	G				5010
AND	(N)	G				5020
AND	(N)	G				5100
AND	(N)	G				5110
AND	(N)	G				5120
AND	(N)	G				5130

References. 1. None.

DESG-6322 **0.5 * B** **(N) 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 Standards. N/A.

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Prerequisites

EVENTS						
AND/OR	If 6322 Conducted In		If 6322 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				6000

References. 1. None.**DESG-6325 0.5 * B (N) G**Goal. Designation as a Formal Learning Center (FLC) Instructor.Requirement

Complete applicable formal learning center instructorGÇÖs course.

Performance Standards. N/A.References. 1. None.4.19.4 Certification (CERT(6)) (CERT(6))Purpose

To provide certification in organic T/E weapons systems.

CERT-6500 3.0 * B (N) LGoal. Conduct M2 heavy machine gun firing exercise.RequirementGiven an M2 heavy machinegun and ammunition;
Conduct firing exercise.Performance Standards. Achieving a qualifying Table II score, per FM 23-65.Instructor

AND/OR	If Event 6500 Is			Required Instructor	
	CONDUCTED In	Not QUALIFIED		Designation	SYLLABUS
	(N)	L		BI	DASC ASOO (7242)

Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A555	400	1	1	1	None
A576	100	1	1	1	None
A598	400	1	1	1	None

References. 1. 1. FM 23-65, Browning Machine Gun Caliber .50 HB, M2

2. 2. MCTP 3-01C, Machine Guns and Machine Gun Gunnery

CERT-6505 3.0 * B (N) LGoal. Conduct M240 medium machine gun firing exercise.

Requirement

Given an M240 medium machinegun and ammunition;
Conduct firing exercise.

Performance Standards. Achieving a qualifying Table II score, per FM 3-22.68.

Instructor

AND/OR	If Event 6505 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A111	800	1	1	1	None
A131	200	1	1	1	None
A143	800	1	1	1	None

References. 1. 1. FM 3-22.68, Crew Served Machine Guns

2. 2. MCTP 3-01C, Machine Guns and Machine Gun Gunnery

CERT-6510 3.0 * B (N) L

Goal. Conduct M1014 combat shotgun firing exercise.

Requirement

Given a M1014 combat shotgun and ammunition;
Conduct firing exercise.

Performance Standards. Achieving a qualifying score.

Instructor

AND/OR	If Event 6510 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L	BI	DASC ASOO (7242)

Ordnance

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A011	12	1	1	1	None
A023	12	1	1	1	None

References. 1. 1. FM 3-22.68, Crew Served Machine Guns

2. 2. MCTP 3-01C, Machine Guns and Machine Gun Gunnery

4.20 MET ASSESSMENT PHASE

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.

General.

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.

Stages. The following stages are included in the Mission Essential Task (MET) Phase of training

MET ASSESSMENT PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
MET(7)	4.21.1	4-116

4.21 MET ASSESSMENT STAGE

4.21.1 Mission Essential Task (MET(7)) (MET(7))

Purpose

To train unit level teams in executing community specific MET(s) or MET preparatory events.

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.

MET-7001 3.0 730 B, R, M I (N) L/S

Goal. Conduct Airspace Management.

Requirement

Capable of coordinating, integrating, and regulating airspace.

1. Capable of establishing Long haul HF or SAT Comms
2. Squadron level simulation conducted within the last 12 months with task organized extensions
3. Capable of managing MAGTF airspace.
4. Able to receive, develop and process changes to airspace control procedures.
5. Receive, develop and process changes to airspace control procedures.
6. Able to integrate all airspace users within assigned airspace.
7. Able to establish / maintain communications.

Performance Standards. Conduct Airspace Management per MCT 5.3.5.3.1 and this manual.

Instructor

AND/OR	If Event 7001 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7002 3.0 730 B, R, M I (N) L/S

Goal. Process Requests for Immediate Air Support.

PRIMARY ORDNANCE	OBJECTIVE QTY		THRESHOLD QTR		SIMULATE
	Initial	Redemonstrate	Initial	Redemonstrate	
A080	120	1	1	1	None
A111	800	1	1	1	None
A131	200	1	1	1	None
A143	800	1	1	1	None
A555	400	1	1	1	None
A576	100	1	1	1	None
A598	400	1	1	1	None

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 2. MAWTS-1 DASC TACSOP

MET-7004 3.0 730 B, R, M I (N) L/S

Goal. Conduct Procedural Control.

Requirement

Capable of conducting procedural control.

1. Capable of conducting procedural control.
2. Able to receive and pass assigned missions and updates to air assets in DASC airspace.
3. Able to relay safety of flight information to aircraft.
4. Able to establish / maintain communications.
5. Able to provide appropriate aircraft routing through airspace IAW published operational documents.
6. Able to receive / process mission reports from air assets.
7. Squadron level simulation conducted within the last 12 months with task organized extensions.

Performance Standards. Conduct Procedural Control per MCT 5.3.5.4.3 and this manual.

Instructor

AND/OR	If Event 7004 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook
2. 3. MAWTS-1 DASC TACSOP

MET-7005 3.0 730 B, R, M I (N) L/S

Goal. Coordinate Aviation Operations, Fires, and Effects.

Requirement

Capable of coordinating the execution of aviation operations with organic MAGTF fires.

1. Capable of coordinating fires and airspace.
2. Able to establish / maintain communications.
3. Able to provide safe / appropriate routing through assigned airspace.
4. Able to receive / process updates and required mission reports.
5. Able to receive, validate, and send fire missions, ACMs, and FSCMs.
6. Squadron level simulation conducted within the last 12 months with task organized extensions.

Performance Standards. Coordinate Aviation Operations, Fires, and Effects per MCT 5.3.5.6 and this manual.

Instructor

AND/OR	If Event 7005 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

MET-7006 3.0 730 B, R, M I (N) L/S

Goal. Support Air Operations in Maritime Surface Warfare (AOMSW)

Requirement

Capable of coordinating, and executing maritime air control in support of integrated naval anti-surface and anti-submarine warfare.

1. Squadron level simulation conducted within the last 12 months.
2. Able to control the four types of AOMSW.
3. Able to maintain communication between higher and adjacent command and control (C2) agencies (Navy and Marine Corps).
4. Able to plan for maritime air controller duties as an air control unit within an air battle plan.
5. Capable of coordination, and execution as an air control unit executing maritime air controller duties.

Performance Standards. Support Air Operations in Maritime Surface Warfare (AOMSW) per MCT 5.3.2.7.2.4 and this manual.

Instructor

AND/OR	If Event 7006 Is		Required Instructor	
	CONDUCTED In	Not QUALIFIED	Designation	SYLLABUS
	(N)	L/S	WTI	DASC ASOO (7242)

References. 1. 1. MCRP 3-20F.5, Direct Air Support Center Handbook

2. 2. MAWTS-1 DASC TACSOP

4.22 AVIATION CAREER PROGRESSION MODEL (ACPM) PHASE

Purpose.

General.

Admin Notes

AVIATION CAREER PROGRESSION MODEL (ACPM) PHASE		
STAGE	PARAGRAPH	PAGE NUMBER
ACPM(8)	4.23.1	4-119

4.23 AVIATION CAREER PROGRESSION MODEL (ACPM) STAGES

4.23.1 Aviation Career Progression Model (ACPM(8)) (ACPM(8))

Purpose

Per NAVMC 3500.14 (Aviation T&R Program Manual), the MACCS Aviation Career Progression Model (ACPM) is designed “to enhance professional understanding of Marine Aviation and the Marine Air Ground Task Force (MAGTF) and to provide Marines with a knowledge of the doctrine and tactics techniques and procedures (TTPs) of aviation command and control.

The MACCS ACPM is broken down into five stages; MACCS, Aviation Combat Element (ACE), Threat, MAGTF, and Joint Air Operations.

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 prerequisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

The learning objectives for each MACCS ACPM event are meant to be evaluated via quizzes on MCALMS. Once a student passes the MCALMS quiz, the event code will be run in M-SHARP. All MACCS ACPM events are one-time events. MAWTS-1 will maintain a standardized exam for each stage (MACCS, ACE, MAGTF, Threat, Joint) that is available to the operating forces via MCALMS. The prerequisite for taking the stage exam will be the completion of all the events in that stage. Stage exams will have their own event number (ACPM-8000, ACPM-8020, ACPM-8040, ACPM-8060, ACPM-8080) and will be tied to qualifications and certification events in MACCS T&R manuals.

ACPM academic events, along with their identifying prerequisite association with other training phases/stages/events, are listed below.

Admin Notes

Commanding Officers shall ensure the requisite MACCS ACPM training requirements have been met prior to approving qualifications or designations.

ACPM-8000 1.0 * B (N) G

Goal. Demonstrate an understanding of the MACCS stage.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8000 Conducted In		If 8000 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8001
AND	(N)	G				8002
AND	(N)	G				8003
AND	(N)	G				8004
AND	(N)	G				8005
AND	(N)	G				8006
AND	(N)	G				8008

References. 1. C3 Course Catalog.

ACPM-8001 4.0 * B (N) G

Goal. Demonstrate an understanding of the Marine Air Command and Control System (MACCS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Describe how the control of aircraft and missiles relates to the other five functions of USMC aviation.
2. Define the control of aircraft and missiles and each of its subcomponents.

3. Define the Marine aviations philosophy of centralized command and decentralized control.
4. Differentiate between Marine aviation philosophy and Joint aviation philosophy.
5. Identify the principle objectives of the MACCS.
6. Recall the primary role of each agency of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MACCS Agencies, Functions and the Control of Aircraft and Missiles Class
2. 2. MCTP 3-20F Control of Aircraft and Missiles

ACPM-8002 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Tactical Air Command Center (TACC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. State the mission of the TACC.
2. Identify the four organizations of the TACC.
3. List the primary responsibilities of Air Combat Intelligence (ACI).
4. List the primary responsibilities of Future Operations (FOPS).
5. List the primary responsibilities of Future Plans (FPLANS).
6. List the primary responsibilities of Current Operations (COPS).
7. List the major end items used by the TACC.
8. List the system limitations of the TACC.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 TACC Class
2. 2. MCRP 3-20F.4 Marine TACC Handbook

ACPM-8003 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Direct Air Support Center (DASC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the DASC.
2. List the structure and task organization of the DASC.
3. Identify the major end items and their characteristics used by the DASC.
4. List the capabilities and limitations of the DASC.
5. Identify how the DASC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 DASC Class
2. 2. MCRP 3-20F.5 DASC Handbook

ACPM-8004 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Tactical Air Operations Center (TAOC).

26 Oct 22

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define the mission of the TAOC.
2. Identify the Mission Essential Tasks (METs) for the TAOC.
3. Identify the structure and task organization of the TAOC.
4. Identify the major end items and their characteristics used by the TAOC.
5. Identify the capabilities and limitations of the TAOC.
6. Identify how the TAOC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 TAOC Class

2. 2. MCRP 3-20F.6 TAOC Handbook

ACPM-8005 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Marine Air Traffic Control (MATC).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of MATC.
2. Identify the Mission Essential Tasks (METs) for MATC.
3. List the structure and task organization of MATC.
4. Identify the major end items and their characteristics used by MATC.
5. Identify the capabilities and limitations of MATC.
6. Identify how MATC is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MATC Employment Class

2. 2. MCTP 3-20F

3. 3. MCRP 3-20F.7 Marine Air Traffic Control Detachment Handbook

ACPM-8006 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Low Altitude Air Defense (LAAD).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of the LAAD battalion.
2. Identify the structure and task organization of the LAAD battalion.
3. Identify the primary vehicle and surface-to-air weapon used by the LAAD Battalion.
4. Define the LAAD employed guidelines.
5. List the LAAD weapon applications.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 LAAD Employment Class

2. 2. MCRP 3-20F.8 LAAD Battalion Handbook

3. 3. MCRP 3-20F.9 LAAD Gunner's Handbook

ACPM-8008 **4.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the Marine Wing Communications Squadron (MWCS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the mission of the MWCS.
2. Identify the structure and task organization of the MWCS.
3. Identify the Mission Essential Tasks (METs) for the MWCS.
4. Identify the major end items and their characteristics used by MWCS.
5. Identify the capabilities and limitations of the MWCS.
6. Identify how the MWCS is doctrinally employed as part of the MACCS.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MWCS Employment Class

2. 2. MCRP 3-30B.2 MAGTF Communications Systems

3. 3. NAVMC 3500.56 Communications Training and Readiness Manual

ACPM-8020 **1.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the ACE stage of the MACCS ACPM.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
	If 8020 Conducted In		If 8020 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8021
AND	(N)	G				8022
AND	(N)	G				8023
AND	(N)	G				8024
AND	(N)	G				8025
AND	(N)	G				8026
AND	(N)	G				8027
AND	(N)	G				8028

References. 1. C3 Course Catalog.

ACPM-8021 **4.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC aviation operations doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the six functions of Marine aviation to include all their subsets.
2. Identify the organization and mission of the Marine Aircraft Wing (MAW), to include each type of group and squadron.
3. Define who has operational control of organic MAGTF aviation assets during Joint operations.
4. List the four types of sorties the MAGTF Commander makes available to the Joint Force.
5. Identify the purpose of the Air Tasking Order (ATO).
6. Identify the six phases of the air tasking cycle.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCWP 3-2 Aviation Operations

ACPM-8022 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC doctrine for the control of aircraft and missiles.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify how the control of aircraft and missiles relates to the other five functions of USMC aviation.
2. Identify distinctions between Marine aviation philosophy and that of the other services.
3. Identify the principle objectives of the Marine Air Command and Control System (MACCS).
4. Describe how the COMMARFOR may serve as the Joint Force Air.
5. Component Commander (JFACC), Airspace Control Authority (ACA), and Area Air Defense Commander (AADC).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 Control of Aircraft and Missiles Class

2. 2. MCTP 3-20F Control of Aircraft and Missiles

ACPM-8023 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Offensive Air Support (OAS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the purpose of the MAGTF Commanders Single Battle Concept.
2. Define the subcategories of OAS.
3. Define the requirements for effective OAS.
4. Define the three types of Deep Air Support (DAS).
5. Define the capabilities and limitations of the OAS function.
6. Identify the elements of a Joint Tactical Air Strike Request (JTAR).
7. Identify the three types of control of Close Air Support (CAS).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 OAS Class

2. 2. MCTP 3-20D Offensive Air Support

ACPM-8024 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Assault Support doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define the types of assault support operations.
2. Identify which aircraft conduct each of the types of assault support operations.
3. Identify the elements of an Assault Support Request (ASR).
4. List assault support capabilities and limitations.
5. Define the role of the air mission commander and the assault force commander during air assault operations.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 Assault Support Class

2. 2. MCTP 3-20E Assault Support

ACPM-8025 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Air Reconnaissance doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the three categories of air reconnaissance.
2. Identify the four principals of air reconnaissance.
3. Identify the five prerequisites for effective air reconnaissance.
4. Identify the current USMC aircraft that have the mission of air reconnaissance.
5. Identify the form used to request air reconnaissance.
6. Identify the five supporting operations for effective air reconnaissance.
7. Identify the capabilities and limitations of air reconnaissance.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCTP 3-20G Air Reconnaissance

ACPM-8026 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Electronic Warfare (EW) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define radar.
2. List the three basic radar types.
3. Identify the limitations and characteristics of radar systems.
4. Identify the six guidance systems and how they work.
5. List the three subdivisions of Electronic Warfare (EW).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCRP 3-32D.1 Electronic Warfare

ACPM-8027 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Antiair Warfare (AAW) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define AAW.
2. Define the two subsets of AAW.
3. Identify the principles of AAW.
4. Identify the types of Offensive Antiair Warfare (OAAW).
5. Identify the active air defense functions.
6. List three examples of passive air defense measures.
7. Define a Joint Engagement Zone (JEZ), Fighter Engagement Zone (FEZ), Missile Engagement Zone (MEZ), and Base Defense Zone (BDZ).
8. Define the air defense warning conditions.
9. Define the weapons control statuses.
10. Identify the responsibilities of the Regional Air Defense Commander (RADC) and the Sector Air Defense Commander (SADC).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCTP 3-20C Anti-air Warfare

ACPM-8028 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of USMC Ground Support (AGS) doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the organization responsible for providing AGS to the Marine Aircraft Wing (MAW).
2. Identify the 13 functions of AGS.
3. Identify the five activities that the Marine Wing Support Squadron (MWSS) performs for the ACE when deployed.
4. Identify the four basing concepts for MAGTF Forward Operating Bases (FOBs).
5. List the four classifications of FOBs.
6. Differentiate the distinguishing characteristics of FOBs.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 AGS Class

2. 2. MCTP 3-20B Aviation Ground Support

ACPM-8040 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the Threat stage of the MACCS ACPM

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8040 Conducted In		If 8040 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8041
AND	(N)	G				8042
AND	(N)	G				8043
AND	(N)	G				8044

References. 1. C3 Course Catalog.

ACPM-8041 4.0 * B (N) G

Goal. Demonstrate an understanding of the surface-to-anti-air threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the system name with the guidance and target aspect for the following Man Portable Air Defense Systems (MANPADS):

- a. SA-7.
- b. SA-14.
- c. SA-16.
- d. SA-18.

2. Match the system name with the guidance and associated radars for the following Radio Frequency Surface-to-Air Missile Systems (RF SAMS):

- a. SA-2.
- b. SA-6.
- c. SA-8.
- d. SA-10.
- e. SA-11.
- f. SA-15.
- g. SA-20.
- h. Roland-III.

3. Match the system name with the type and associated radar for the following Air Defense Artillery (AAA):

- a. ZPU 1, 2, 4.
- b. ZSU-23-4.
- c. 2S6.
- d. S-60.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference

ACPM-8042 4.0 * B (N) G

Goal. Demonstrate an understanding of the fixed wing threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the AN-2 Colt.
2. Identify the role of the MIG-23 Flogger.
3. Identify the role of the MIG-29 Fulcrum.
4. Identify the role of the MIG-31 Foxhound.
5. Identify the role of the Su-24 Fencer.
6. Identify the role of the Su-25 Frogfoot.
7. Identify the role of the Su-27 Flanker.
8. Identify the role of the Su-30 Flanker.
9. Identify the role of the Tu-22M Backfire.
10. Identify the role of the Tu-95 Bear.
11. Identify the role of the Tu-160 Blackjack.
12. Identify the role of the J-7 Fishbed.
13. Identify the role of the JH-7 Flounder.
14. Identify the role of the J-8 Finback.
15. Identify the role of the J-10 Firebird.
16. Identify the role of the H-6 Badger.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference
(<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>)

ACPM-8043	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the rotary wing threat to the MAGTF.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the role of the Mi-24 Hind.
2. Identify the role of the SA 342 Gazelle.
3. Identify the role of the Ka-25 Hormone.
4. Identify the role of the Mi-6 Hook.
5. Identify the role of the Mi-28 Havoc.
6. Identify the role of the Mi-8 Hip.
7. Identify the role of the Ka-50 Kokum.
8. Identify the role of the Ka-29 Helix B.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MAWTS-1 Marine Aviation Intelligence Reference
(<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>)

ACPM-8044	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of the missile and Unmanned Aircraft System (UAS) threat to the MAGTF

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the system name with the terminal guidance for the following Air-to-Surface Missiles:
 - a. AS-10 Karen.
 - b. AS-11 Kilter.
 - c. AS-12 Kegler.

- d. AS-14 Kedge.
- e. AS-17 Krypton.
- 2. Match the system name with the warhead and guidance for the following Surface-to-Surface Missiles:
 - a. FROG-7.
 - b. SCUD-B.
 - c. SCUD-C.
 - d. Nodong 1.
 - e. C 801.
 - f. C 802.
- 3. Identify the mission of the following threat UAS:
 - a. Ababil.
 - b. Mohajer.
 - c. Harpy.
 - d. Heron.
 - e. ASN-206.
 - f. Pchela-1T.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

- References. 1. 1. MAWTS-1 Marine Aviation Intelligence Reference
https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/ne_wc3/default.aspx
2. 2. Marine Corps Intelligence Activity Iran Country Handbook (appendix A)
3. 3. Marine Corps Intelligence Activity North Korea Country Handbook (page 86)
4. 4. Marine Corps Intelligence Activity China Country Handbook (appendix A)
<https://www.intelink.gov/mcia/handbook.htm>
5. 5. MCIA UAV Recognition Guide <https://www.intelink.gov/mcia/index.htm>

ACPM-8060 **1.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF stage of the MACCS ACPM.

Requirement

Demonstrate an understanding of the MAGTF stage of the MACCS ACPM.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
AND/OR	If 8060 Conducted In		If 8060 Conducted With			Prerequisite
	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8061
AND	(N)	G				8062
AND	(N)	G				8063
AND	(N)	G				8064
AND	(N)	G				8065

References. 1. C3 Course Catalog.

ACPM-8061 **4.0** * **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF ground combat operations.

Requirement

- b. Types of attack.
 - c. Forms of maneuver.
 - d. Distribution of forces.
 - 5. Identify the following items related to defensive operations:
 - a. Organization of the defense.
 - b. Distribution of forces.
 - c. Types of defensive operations.
 - d. Defensive methods.
- Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:
- 1. Identify how the Ground Combat Element (GCE) is employed as part of the MAGTF and the capabilities the GCE provides to the MAGTF commander.
 - 2. Define the following items related to command and control of ground combat operations:
 - a. Echelons of the GCE headquarters.
 - b. Battlespace Organization.
 - c. Battlespace Framework.
 - 3. Define the five types of amphibious operations.
 - 4. Identify the following items related to offensive operations:
 - a. Types of offensive operations.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCDP 1-0 Marine Corps Operations

ACPM-8062 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of fire support coordination in the Ground Combat Element (GCE).

Requirement

- Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:
- 1. Identify the four fire support tasks.
 - 2. List the functions of the senior fire support coordination center (FSCC) in the GCE.
 - 3. List the four steps of the MAGTF Targeting Process.
 - 4. Define the purpose of essential fire support tasks (EFST).

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 MAGTF Targeting and Fire Support Planning Class

2. 2. MCTP 3-10F Fire Support Coordination in the GCE

ACPM-8063 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of MAGTF command and control.

Requirement

- Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:
- 1. Identify MAGTF command and support relationships.
 - 2. Identify the purpose and role of the command and control centers in the CE, ACE, GCE, and LCE.
 - 3. Identify the purpose and role of the amphibious command and control facilities.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCWP 3-30 MAGTF Command and Control

ACPM-8064	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of MAGTF communications.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the six characteristics of communications and information systems.
2. Identify the mission and organizational structure of the Communications Battalion.
3. Identify the purpose of the Communications-Electronics Operating Instructions (CEOI) and what information is usually included in it.
4. Identify what information can be found in Annex K of an operations order.
5. Identify the purpose of select fires, support, and ACE specific radio nets.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCRP 3-30B.2 MAGTF Communications System

ACPM-8065	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of phasing control ashore.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify types of amphibious operations and how command relationships may change during the conduct of each.
2. Identify how disputes among commanders during amphibious operations are resolved.
3. Identify the key commanders and command relationships.
4. Identify the key characteristics of each phase in phasing the MACCS ashore.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-02 Amphibious Operations

2. 2. MCTP 3-20F Control of Aircraft and Missiles (Appendix C)

ACPM-8066	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of information management.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Match the principles of information management with their descriptions.
2. Define each of the classes of information within an information hierarchy.
3. List the characteristics of quality information.
4. Identify the role and responsibilities of an Information Management Officer (IMO).
5. Define C2 support structure and the three steps followed to develop one.
6. Identify the purpose of an information management matrix and the information management plan.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCTP 3-30B Information Management

ACPM-8067 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of Unmanned Aircraft Systems in support of MAGTF operations.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the four types of payloads.
2. Identify the three attributes that determine UAS Groups.
3. Identify the five different UAS Group Categories.
4. Identify the two types of VMU operational employment.
5. Identify the three components of the RQ-7B Communications Relay Package.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MCRP 3-42.1A

2. 2. NTTP 3-22.3-VMU

ACPM-8080 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the MAGTF stage of the joint air operations stage of the MACCS ACPM.

Requirement

Pass a closed book examination that encompasses all learning objectives contained in the prerequisites.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

Prerequisites

EVENTS						
	If 8080 Conducted In		If 8080 Conducted With			Prerequisite
AND/OR	CONDITION	DEVICE	ORDNANCE	CONFIG REQ	POI	T&R CODE
	(N)	G				8081
AND	(N)	G				8082
AND	(N)	G				8083
AND	(N)	G				8084
AND	(N)	G				8085
AND	(N)	G				8086
AND	(N)	G				8087
AND	(N)	G				8088

References. 1. C3 Course Catalog.

ACPM-8081 **1.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the command and control of joint air operations.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the definition of joint air operations.
2. Identify the Joint Force Air Component Commander's responsibilities.

3. Identify the five sections that comprise the Joint Air Operations Center.
4. Identify the six phases of the Joint Air Tasking Cycle.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. DOCNET Course 3-30 (<http://www.dtic.mil/doctrine/docnet/>)

2. 2. MAWTS-1 Joint Air Operations Class

3. 3. JP 3-30 C2 of Joint Air Operations

ACPM-8082 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the theater air ground system (TAGS).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. List the primary characteristics of the Theater Air Ground System (TAGS).
2. Identify the elements within the Air Forces Theater Air Control System (TACS) and their primary responsibilities.
3. Identify the aviation command and control elements with the Army Air and Ground System (AAGS) and their primary responsibilities.
4. Identify the aviation elements within the Navy's Composite Warfare Commander (CWC) architecture.
5. Identify the Amphibious Task Force (ATF) construct and its primary responsibilities.
6. Identify the aviation command and control elements within the Special Operations Air-Ground System.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. MCRP 3-20.1 Multi-Service Tactics, Techniques, and Procedures for the Theater Air-Ground System

ACPM-8083 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of joint fire support doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Define joint fires.
2. Define joint fire support.
3. Identify the steps of the joint fire support planning process.
4. List the various elements of the component commanders fires command and control system.
5. Define the various joint control and coordination measures associated with joint fire support.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. JP 3-09 Joint Fire Support

ACPM-8084 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of close air support (CAS) doctrine.

26 Oct 22

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Explain key roles and responsibilities related to the planning and execution of CAS.
2. Detail key steps in the planning and execution of CAS.
3. Describe various coordination measures used in the planning and conduct of CAS.
4. Describe the manner in which the two types of CAS requests are fulfilled.
5. Identify the goal and purpose of synchronizing CAS with surface fires.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-09.3 Close Air Support

ACPM-8085 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of joint targeting doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify types of targets.
2. Identify and describe the six phases of the joint targeting cycle.
3. Identify characteristics of a target.
4. Identify and describe steps in dynamic targeting.
5. Describe roles and responsibilities related to the joint targeting process.
6. Describe key products and processes of the joint targeting cycle.
7. Identify key terms related to the joint targeting process.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. JP 3-60 Joint Targeting

ACPM-8086 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of the North Atlantic Treaty Organization (NATO).

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the composition of the NATO alliance.
2. Identify the three key articles of the NATO alliance.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. MAWTS-1 NATO Class
 2. 2. North Atlantic Treaty Organization Handbook
 3. 3. "What is NATO" Brief (http://www.nato.int/welcome/intro_to_NATO_en.ppt)
 4. 4. AJP-01(D)

ACPM-8087 **4.0** ***** **B** **(N)** **G**

Goal. Demonstrate an understanding of joint airspace control doctrine.

Requirement

Conduct a self-paced reading of the reference and pass a closed book examination on the following learning objectives:

1. Identify the responsibilities of the airspace control authority (ACA).
2. Identify the basic principles for airspace control.
3. Identify the purpose of the airspace control plan (ACP).
4. Identify the purpose of the airspace control order (ACO).
5. Identify the methods of airspace control.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. 1. JP 3-30 C2 of Joint Air Operations

2. 2. JP 3-52 Joint Airspace Control

ACPM-8088	4.0	*	B	(N)	G
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Goal. Demonstrate an understanding of counter air and missile doctrine.

Performance Standards. Pass an exam with a score of 80% or higher on the stated learning objectives.

References. 1. JP 3-01 Countering Air and Missile Threats

4.24 ELECTRONIC AIRCREW TRAINING FORM (EATF) REASON CODES

Not Editable By Editor

4.25 T&R SYLLABUS MATRICES

4.25.1 T&R Syllabus Matrix

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
1000 PHASE - Core Introduction												
Air School (AIRS(1)) (AIRS(1)) Stage												
1100	AIRS(1)	ACAD	Knowledge of MAGTF	B	*	(N)	G	0	0.0			1100
1102	AIRS(1)	ACAD	How MAW Sup MAGTF	B	*	(N)	G	0	0.0			1102
1104	AIRS(1)	ACAD	Offensive Air Suppor	B	*	(N)	G	0	0.0			1104
1106	AIRS(1)	ACAD	Assault Support	B	*	(N)	G	0	0.0			1106
1108	AIRS(1)	ACAD	Aerial Reconnaissanc	B	*	(N)	G	0	0.0			1108
1110	AIRS(1)	ACAD	Anti-Air Warfare	B	*	(N)	G	0	0.0			1110
1112	AIRS(1)	ACAD	Electronic Warfare	B	*	(N)	G	0	0.0			1112
1114	AIRS(1)	ACAD	Ctrl A/C & Missiles	B	*	(N)	G	0	0.0			1114
1116	AIRS(1)	ACAD	Threats to MAGTF	B	*	(N)	G	0	0.0			1116
1118	AIRS(1)	ACAD	Thrt Affecting DASC	B	*	(N)	G	0	0.0			1118
1120	AIRS(1)	ACAD	Operations Docs for	B	*	(N)	G	0	0.0			1120
1122	AIRS(1)	ACAD	Prop Hand Class Docs	B	*	(N)	G	0	0.0			1122
1124	AIRS(1)	ACAD	Oper Air Supt Comm E	B	*	(N)	G	0	0.0			1124
1126	AIRS(1)	ACAD	Caps of CAC2S	B	*	(N)	G	0	0.0			1126
1128	AIRS(1)	ACAD	Conduct Comm	B	*	(N)	G	0	0.0			1128
1130	AIRS(1)	ACAD	Info Sec DASC Ops	B	*	(N)	G	0	0.0			1130
1132	AIRS(1)	ACAD	Plot Air Supt Info	B	*	(N)	G	0	0.0			1132
1134	AIRS(1)	ACAD	Immed Air Supt Reqs	B	*	(N)	G	0	0.0			1134
1136	AIRS(1)	ACAD	TDF	B	*	(N)	G	0	0.0			1136
1140	AIRS(1)	ACAD	Exchange Info w/TACC	B	*	(N)	G	0	0.0			1140
1142	AIRS(1)	ACAD	Exchange Info w/FSCC	B	*	(N)	G	0	0.0			1142
1144	AIRS(1)	ACAD	TBMCS	B	*	(N)	G	0	0.0			1144
1148	AIRS(1)	ACAD	Info Exchange w/MAGT	B	*	(N)	G	0	0.0			1148
1150	AIRS(1)	ACAD	Air Picture	B	*	(N)	G	0	0.0			1150
2000 PHASE - Core												
ASO(2) ASO(2) Core Skill												
2055	ACAD(2)	ACAD	ID ACMs/FSCM	B	*	(N)	G	0	1.0			2055
2060	ACAD(2)	ACAD	Weather Reports	B	*	(N)	G	0	1.0			2060
2065	ACAD(2)	ACAD	Aviation Ord	B	*	(N)	G	0	1.0			2065
2070	ACAD(2)	ACAD	RSOP Plan/Brief	B	*	(N)	G	0	1.0			2070

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
2090	ACAD(2)	ACAD	DAS, SCAR, and KB	B	*	(N)	G	0	1.0			
2350	FAM(2)	LIVE	Observe TACP	B	*	(N)	L	0	1.0			2350
2355	FAM(2)	LIVE	Observe a TACC	B	*	(N)	L	0	1.0			2355
2365	FAM(2)	LIVE	Observe FSCC	B	*	(N)	L	0	1.0			2365
2370	FAM(2)	LIVE	Observe TAOC/EWC	B	*	(N)	L	0	1.0			2370
2375	FAM(2)	LIVE	Observe ATCF	B	*	(N)	L	0	1.0			2375
2380	FAM(2)	LIVE	Observe LAAD sect/tm	B	*	(N)	L	0	1.0			2380
2400	ASO(2)	LIVE	Plot air support info	B, R, M	365	(N)	L/S	0	2.0			2400
2405	ASO(2)	LIVE	Conduct in CBRN Envi	B	*	(N)	L/S	0	4.0			2405
C2SYS(2) C2SYS(2) Core Skill												
2900	C2SYS(2)	ACAD	TBMCS Client	B	*	(N)	G	0	0.5			2900
2910	C2SYS(2)	ACAD	ESTAT	B	*	(N)	G	0	2.0			2910
2911	C2SYS(2)	ACAD	WARP	B	*	(N)	G	0	4.0			2911
2920	C2SYS(2)	ACAD	Oper AFATDS	B	*	(N)	G	0	4.0			2920
2923	C2SYS(2)	LIVE	TDF Webportal	B, R, M	365	(N)	L/S	0	2.0			
2926	C2SYS(2)	ACAD	PDSS Basic BM Functions	B, R, M	365	(N)	G	0	4.0			
2928	C2SYS(2)	ACAD	Control functions of PDSS	B, R, M	365	(N)	G	0	4.0			
2940	C2SYS(2)	ACAD	IRC Network	B	*	(N)	G	0	1.0			2940
COMM(2) COMM(2) Core Skill												
2100	COMM(2)	LIVE	Pacific Cypher Sys	B	*	(N)	L/S	0	1.0			2100
2105	COMM(2)	LIVE	Use Portable Radio	B, R, M	365	(N)	L	0	1.0			2105
2115	COMM(2)	LIVE	MASS T/E Radios	B	*	(N)	L/S	0	1.0			2115
2130	COMM(2)	LIVE	ID Comm Problems	B	*	(N)	L/S	0	1.0			2130
2135	COMM(2)	LIVE	Describe Rx/Tx site	B	*	(N)	L/S	0	1.5			
EQUIP(2) EQUIP(2) Core Skill												
2155	EQUIP(2)	LIVE	Employ OpFac	B, R, M	365	(N)	L	0	1.5			2155
2160	EQUIP(2)	LIVE	Caps/Lims Mt/UT Equ	B	*	(N)	L/S	0	1.0			2160
TDL(2) TDL(2) Core Skill												
2800	TDL(2)	ACAD	Docs for TDL	B	*	(N)	G	0	1.0			2800
2803	TDL(2)	ACAD	DASC voice and data	B	*	(N)	G	0	1.0			2803
2807	TDL(2)	ACAD	TDL Caps of JTDS	B	*	(N)	G	0	2.0			
2808	TDL(2)	ACAD	Describe JDN	B	*	(N)	G	0	1.0			2808
2809	TDL(2)	ACAD	Desc MTDL Interface	B	*	(N)	G	0	1.0			2809

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
2810	TDL(2)	ACAD	ID IU Categories	B	*	(N)	G	0	2.0			2810
2811	TDL(2)	ACAD	ID Basic Track Info	B	*	(N)	G	0	2.0			2811
2812	TDL(2)	ACAD	ID Info in J-Series	B	*	(N)	G	0	2.0			2812
2814	TDL(2)	ACAD	Deser Data Filters	B	*	(N)	G	0	2.0			2814
2817	TDL(2)	ACAD	Define terms Link 16	B	*	(N)	G	0	3.0			2817
2818	TDL(2)	ACAD	State Char of Link16	B	*	(N)	G	0	3.0			2818
2819	TDL(2)	ACAD	State Char JREAP	B	*	(N)	G	0	2.0			2819
2820	TDL(2)	ACAD	ID OPTASKLINK Segmen	B	*	(N)	G	0	2.0			2820
2821	TDL(2)	ACAD	Purp Inter Coord Pro	B	*	(N)	G	0	1.0			2821
2822	TDL(2)	ACAD	ICO Responsibilities	B	*	(N)	G	0	1.0			
2823	TDL(2)	ACAD	State Char of VMF	B	*	(N)	G	0	1.0			2823
2830	TDL(2)	LIVE	Operate ADSI	B	*	(N)	L	0	2.0			4830
2836	TDL(2)	LIVE	Operate Link 16	B, R, M	1095	(N)	L	0	8.0			4836
2840	TDL(2)	LIVE	Oper JREAP B	B	*	(N)	L	0	8.0			4840
2842	TDL(2)	LIVE	Oper JREAP C	B	*	(N)	L	0	3.0			4842
ACR(2) ACR(2) Core Skill												
2210	ACR(2)	LIVE	Trk/Display ATO Exec	B, R, M	1095	(N)	L/S	0	2.0			2210
2215	ACR(2)	LIVE	Perf Digital Air Ctr	B	*	(N)	L/S	0	4.0			4100
FSCNO(2) FSCNO(2) Core Skill												
2340	FSCNO(2)	LIVE	Exchange info FSCC	B, R, M	1095	(N)	L/S	0	2.0			2340
TCDS(2) TCDS(2) Core Skill												
2300	TCDS(2)	LIVE	Exc Info TACC/ACE	B, R, M	1095	(N)	L/S	0	2.0			2300
TRHR(2) TRHR(2) Core Skill												
2250	TRHR(2)	LIVE	Imm Air Support Reqs	B, R, M	1095	(N)	L/S	0	2.0			2250
IDM(2) IDM(2) Core Skill												
2200	IDM(2)	LIVE	Coord Track Data	B, R, M	1095	(N)	L/S	0	2.0			2200
CC(2) CC(2) Core Skill												
2455	CC(2)	LIVE	Extract Critical Inf	B, R, M	1095	(N)	L/S	0	4.0			2455
2460	CC(2)	LIVE	Perform CC Admin Fun	B	*	(N)	L/S	0	1.0			2460
2465	CC(2)	LIVE	Pri Comm Links	B	*	(N)	L/S	0	1.0			2465
2480	CC(2)	LIVE	Match Aviation Asset	B	*	(N)	L/S	0	1.0			2480
DC(2) DC(2) Core Skill												
2500	DC(2)	LIVE	DASC site selection	B	*	(N)	L/S	0	1.5			2500

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
2505	DC(2)	LIVE	Emplace a DASC	B, R, M	1095	(N)	L	0	4.0			2505
2510	DC(2)	LIVE	Determine DASC Requi	B	*	(N)	L/S	0	2.0			2510
2515	DC(2)	LIVE	Desc displace ops	B	*	(N)	L/S	0	1.5			2515
2520	DC(2)	LIVE	Phase Ctrl Ashore	B	*	(N)	L/S	0	1.5			2520
2525	DC(2)	LIVE	Create/Exe DASC Dril	B	*	(N)	L/S	0	80.0			2525
2530	DC(2)	LIVE	Dev/Exec Load Plan	B	*	(N)	L	0	1.0			2530
3000 PHASE - Mission												
ACR(3) ACR(3) Mission Skill												
3270	ACR(3)	LIVE	ACR Basic	B	*	(N)	L/S	0	10.0			3270
3275	ACR(3)	LIVE	ACR Advanced	B, R, M	1095	(N)	L/S	0	10.0			3275
CC(3) CC(3) Mission Skill												
3200	CC(3)	LIVE	CC Basic	B	*	(N)	L/S	0	10.0			3200
3205	CC(3)	LIVE	CC Advanced	B, R, M	1095	(N)	L/S	0	10.0			3205
3475	CC(3)	LIVE	CC during passage	B	*	(N)	L/S	0	4.0			3475
DC(3) DC(3) Mission Skill												
3250	DC(3)	LIVE	Duties of DASC Chief	B, R, M	1095	(N)	L/S	0	8.0			3250
FSCNO(3) FSCNO(3) Mission Skill												
3150	FSCNO(3)	LIVE	FSCNO Basic	B	*	(N)	L/S	0	10.0			3150
3155	FSCNO(3)	LIVE	FSCNO Advanced	B, R, M	1095	(N)	L/S	0	10.0			3155
IDM(3) IDM(3) Mission Skill												
3000	IDM(3)	LIVE	IDM Basic	B	*	(N)	L/S	0	10.0			3000
3005	IDM(3)	LIVE	IDM Advanced	B, R, M	1095	(N)	L/S	0	10.0			3005
TCDS(3) TCDS(3) Mission Skill												
3100	TCDS(3)	LIVE	TAC/DAS Basic	B	*	(N)	L/S	0	10.0			3100
3105	TCDS(3)	LIVE	TAC/DAS Advanced	B, R, M	1095	(N)	L/S	0	10.0			3105
TRHR(3) TRHR(3) Mission Skill												
3050	TRHR(3)	LIVE	TAR/HR Basic	B	*	(N)	L/S	0	10.0			3050
3055	TRHR(3)	LIVE	TAR/HR Advanced	B, R, M	1095	(N)	L/S	0	10.0			3055
TDL(3) TDL(3) Mission Skill												
3850	TDL(3)	LIVE	Cond TDL Coord Agenc	B	*	(N)	L/S	0	3.0			2850
3851	TDL(3)	LIVE	Perf TDC Track Prod	B	*	(N)	L/S	0	3.0			2851
3856	TDL(3)	LIVE	AC2S VMF Capabilities	B, R, M	1095	(N)	L/S	0	1.0			
4000 PHASE - Core Plus												

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
ACAD(4) ACAD(4) Core Plus Skill												
4055	ACAD(4)	ACAD	Composite Warfare	B	*	(N)	G	0	1.0			
4105	ACAD(4)	ACAD	Describe AOMSW	B, R, M	1095	(N)	G	0	1.0			
CTRL(4) CTRL(4) Core Plus Skill												
4200	CTRL(4)	LIVE	Ctrl FW or RW Base 1	B, R, M	365	(N)	L/S	0	4.0			4200
FAM(4) FAM(4) Core Plus Skill												
4410	FAM(4)	ACAD	Observe SACC	B, R, M	1095	(N)	G	0	1.0			4410
4415	FAM(4)	ACAD	Observe NTACC	B	*	(N)	G	0	1.0			4415
HD(4) HD(4) Core Plus Skill												
4300	HD(4)	LIVE	RW Basic	B	*	(N)	L/S	0	10.0			4300
4305	HD(4)	LIVE	RW Advanced	B, R, M	1095	(N)	L/S	0	10.0			4305
TAD(4) TAD(4) Core Plus Skill												
4350	TAD(4)	LIVE	FW Basic	B	*	(N)	L/S	0	10.0			4350
4355	TAD(4)	LIVE	FW Advanced	B, R, M	1095	(N)	L/S	0	10.0			4355
4500 PHASE - Mission Plus												
Procedural Control CTRL(45) Mission Plus Skill												
4505	CTRL(45)	LIVE	CTRL ISO AOMSW	B, R, M	365	(N)	L/S	0	4.0			
Tactical Data Link TDL(48) Mission Plus Skill												
4835	TDL(4)	LIVE	Setup Link 16	B	*	(N)	L/S	0	3.0			
4839	TDL(4)	LIVE	Setup JREAP B	B	*	(N)	L/S	0	2.0			
4841	TDL(4)	LIVE	Setup JREAP C	B	*	(N)	L/S	0	2.0			
4845	TDL(4)	LIVE	Troubleshoot Link 16	B, R, M	1095	(N)	L/S	0	3.0			4845
4847	TDL(4)	LIVE	Troubleshoot JREAP B	B	*	(N)	L/S	0	3.0			4847
4848	TDL(4)	LIVE	Troubleshoot JREAP C	B	*	(N)	L/S	0	3.0			4848
Command and Control System C2SYS(4) Mission Plus Skill												
4904	C2SYS(4)	ACAD	TBMCS Web Map	B	*	(N)	G	0	1.0			4904
4905	C2SYS(4)	ACAD	AATWEB	B	*	(N)	G	0	1.0			4905
4906	C2SYS(4)	ACAD	WEBAD	B	*	(N)	G	0	4.0			4906
4907	C2SYS(4)	ACAD	TBMCS Battle Mgmt	B	*	(N)	G	0	1.0			4907
4908	C2SYS(4)	ACAD	ABIM	B	*	(N)	G	0	1.0			4908
4909	C2SYS(4)	ACAD	FSTAT/FrOB	B	*	(N)	G	0	2.0			4909
4912	C2SYS(4)	ACAD	MCAMP	B	*	(N)	G	0	4.0			4912
4913	C2SYS(4)	ACAD	Import Airspace Group	B	*	(N)	G	0	4.0			4913

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
4914	C2SYS(4)	ACAD	ABP Shell	B	*	(N)	G	0	4.0			4914
4915	C2SYS(4)	ACAD	Create ground tgts	B	*	(N)	G	0	2.0			4915
4916	C2SYS(4)	ACAD	Create missions	B	*	(N)	G	0	4.0			4916
4917	C2SYS(4)	ACAD	Publish ATO	B	*	(N)	G	0	1.0			4917
4921	C2SYS(4)	ACAD	C2PC	B	*	(N)	G	0	4.0			2921
4924	C2SYS(4)	ACAD	Operate JDOCS	B, R, M	1095	(N)	G	0	1.0			4924
4941	C2SYS(4)	ACAD	Web Development	B	*	(N)	G	0	4.0			4941
5000 PHASE - Instructor Training												
Basic Instructor (BI(5)) (BI(5)) Stage												
5000	BI(5)	LIVE	Princ of instruction	B	*	(N)	L	0	2.0			5000
5010	BI(5)	ACAD	Indiv T&R Reqs	B	*	(N)	G	0	2.0			5010
5020	BI(5)	LIVE	Cond T&R Instruct	B, R	90	(N)	L	0	12.0			5020
Senior Instructor (SI(5)) (SI(5)) Stage												
5100	SI(5)	ACAD	Describe T&R Prog	B	*	(N)	G	0	2.0			5100
5110	SI(5)	LIVE	Cond instruct evals	B, R	365	(N)	L	0	4.0			5110
5120	SI(5)	LIVE	Perf T&R Admin	B	*	(N)	L	0	2.0			5120
5130	SI(5)	LIVE	Dev Training Plan	B	*	(N)	L	0	2.0			5130
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)												
Schools (SCHL(6)) (SCHL(6)) Stage												
6000	SCHL(6)	ACAD	WTI	B	*	(N)	G	0	0.5			6000
6010	SCHL(6)	ACAD	Airspace Course	B	*	(N)	G	0	0.5			6010
6011	SCHL(6)	ACAD	PRC	B	*	(N)	G	0	0.5			6011
6012	SCHL(6)	ACAD	Plans/Ops Tech Crse	B	*	(N)	G	0	0.5			6012
6015	SCHL(6)	ACAD	JAOC2C	B	*	(N)	G	0	0.5			6015
6016	SCHL(6)	ACAD	JAOC Senior Staff	B	*	(N)	G	0	0.5			6016
6020	SCHL(6)	ACAD	Link16 Basic (JT-100)	B	*	(N)	G	0	0.5			6020
6021	SCHL(6)	ACAD	Intro to MTDL (JT101)	B	*	(N)	G	0	0.5			6021
6022	SCHL(6)	ACAD	MAJIC (JT102)	B	*	(N)	G	0	0.5			6022
6023	SCHL(6)	ACAD	Link16 JIC (US109)	B	*	(N)	G	0	0.5			6023
6024	SCHL(6)	ACAD	MTDL Planner (JT201)	B	*	(N)	G	0	0.5			6024
6025	SCHL(6)	ACAD	LUM (JT220)	B	*	(N)	G	0	0.5			6025
6026	SCHL(6)	ACAD	JICO (JT301)	B	*	(N)	G	0	0.5			6026
6027	SCHL(6)	ACAD	Adv JICC (JT310)	B	*	(N)	G	0	0.5			6027

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
6028	SCHL(6)	ACAD	ADSI	B	*	(N)	G	0	0.5			6028
6067	SCHL(6)	ACAD	Airspace Mgmt	B	*	(N)	G	0	0.5			6067
6072	SCHL(6)	ACAD	AFATDS	B	*	(N)	G	0	0.5			6072
6079	SCHL(6)	ACAD	JRE-GW Operators	B	*	(N)	G	0	0.5			6079
6082	SCHL(6)	ACAD	Joint Firepower Crse	B	*	(N)	G	0	0.5			6082
6096	SCHL(6)	ACAD	Instr Dev Course	B	*	(N)	G	0	0.5			6096
6106	SCHL(6)	ACAD	Amphib Airspace Ops	B	*	(N)	G	0	0.5			
6107	SCHL(6)	ACAD	Amphib Warfare Indoc	B	*	(N)	G	0	0.5			
6108	SCHL(6)	ACAD	Intermediate Amphib Ops	B	*	(N)	G	0	0.5			
6109	SCHL(6)	ACAD	SACC	B	*	(N)	G	0	0.5			
6111	SCHL(6)	ACAD	JMTC	B	*	(N)	G	0	0.5			
Qualifications (QUAL(6)) (QUAL(6)) Stage												
6200	QUAL(6)	ACAD	Qual as ACR	B	*	(N)	G	0	0.5			6200
6205	QUAL(6)	ACAD	Qual as TAR/HR	B	*	(N)	G	0	0.5			6205
6210	QUAL(6)	ACAD	Qual as TAC/DAS	B	*	(N)	G	0	0.5			6210
6215	QUAL(6)	ACAD	Qual as FSCNO	B	*	(N)	G	0	0.5			6215
6220	QUAL(6)	ACAD	Qual as IDM	B	*	(N)	G	0	0.5			6220
6225	QUAL(6)	ACAD	Qual as CC	B	*	(N)	G	0	2.0			6225
6230	QUAL(6)	ACAD	Qual as HD	B	*	(N)	G	0	0.5			6230
6235	QUAL(6)	ACAD	Qual as TAD	B	*	(N)	G	0	0.5			6235
Designations (DESG(6)) (DESG(6)) Stage												
6300	DESG(6)	ACAD	DASC Chief	B	*	(N)	G	0	0.5			6300
6320	DESG(6)	ACAD	Basic Instructor	B	*	(N)	G	0	0.5			6320
6321	DESG(6)	ACAD	Senior Instructor	B	*	(N)	G	0	0.5			6321
6322	DESG(6)	ACAD	WTI	B	*	(N)	G	0	0.5			6322
6325	DESG(6)	ACAD	Desg as FLCI	B	*	(N)	G	0	0.5			6325
Certification (CERT(6)) (CERT(6)) Stage												
6500	CERT(6)	LIVE	Conduct M2 heavy	B	*	(N)	L	0	3.0			6500
6505	CERT(6)	LIVE	Conduct M240 medium	B	*	(N)	L	0	3.0			6505
6510	CERT(6)	LIVE	Cond M1014 shotgun	B	*	(N)	L	0	3.0			6510
7000 PHASE - MET												
Mission Essential Task (MET(7)) (MET(7)) Stage												
7001	MET(7)	LIVE	Airspace Management	B, R, M	730	(N)	L/S	0	3.0	X		7400

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
7002	MET(7)	LIVE	Process Requests	B, R, M	730	(N)	L/S	0	3.0	X		7405
7003	MET(7)	LIVE	Echelon	B, R, M	730	(N)	L/S	0	3.0	X		7410
7004	MET(7)	LIVE	Procedural Control	B, R, M	730	(N)	L/S	0	3.0	X		7415
7005	MET(7)	LIVE	Aviation, Fires, Effects	B, R, M	730	(N)	L/S	0	3.0	X		7420
7006	MET(7)	LIVE	AOMSW	B, R, M	730	(N)	L/S	0	3.0	X		7425
8000 PHASE - ACPM												
Aviation Career Progression Model (ACPM(8)) (ACPM(8)) Stage												
8000	ACPM(8)	ACAD	MACCS Module	B	*	(N)	G	0	1.0			8000
8001	ACPM(8)	ACAD	MACCS	B	*	(N)	G	0	4.0			8001
8002	ACPM(8)	ACAD	TACC	B	*	(N)	G	0	4.0			8002
8003	ACPM(8)	ACAD	DASC	B	*	(N)	G	0	4.0			8003
8004	ACPM(8)	ACAD	TAOC	B	*	(N)	G	0	4.0			8004
8005	ACPM(8)	ACAD	MATC	B	*	(N)	G	0	4.0			8005
8006	ACPM(8)	ACAD	LAAD	B	*	(N)	G	0	4.0			8006
8008	ACPM(8)	ACAD	MWCS	B	*	(N)	G	0	4.0			8008
8020	ACPM(8)	ACAD	ACE Module	B	*	(N)	G	0	1.0			8020
8021	ACPM(8)	ACAD	Aviation Ops	B	*	(N)	G	0	4.0			8021
8022	ACPM(8)	ACAD	CTRL of A/C & Missil	B	*	(N)	G	0	4.0			8022
8023	ACPM(8)	ACAD	OAS	B	*	(N)	G	0	4.0			8023
8024	ACPM(8)	ACAD	Assault Support	B	*	(N)	G	0	4.0			8024
8025	ACPM(8)	ACAD	Aerial Recon	B	*	(N)	G	0	4.0			8025
8026	ACPM(8)	ACAD	Electronic Warfare	B	*	(N)	G	0	4.0			8026
8027	ACPM(8)	ACAD	Anti-Air Warfare	B	*	(N)	G	0	4.0			8027
8028	ACPM(8)	ACAD	Avn Ground Supt	B	*	(N)	G	0	4.0			8028
8040	ACPM(8)	ACAD	Threat Module	B	*	(N)	G	0	1.0			8040
8041	ACPM(8)	ACAD	S to A Threat	B	*	(N)	G	0	4.0			8041
8042	ACPM(8)	ACAD	Fixed Wing Threat	B	*	(N)	G	0	4.0			8042
8043	ACPM(8)	ACAD	Rotary Wing Threat	B	*	(N)	G	0	4.0			8043
8044	ACPM(8)	ACAD	Missile & UAS Threat	B	*	(N)	G	0	4.0			8044
8060	ACPM(8)	ACAD	MAGTF Module	B	*	(N)	G	0	1.0			8060
8061	ACPM(8)	ACAD	Grd Combat Ops	B	*	(N)	G	0	4.0			8061
8062	ACPM(8)	ACAD	Fire Support in GCE	B	*	(N)	G	0	4.0			8062
8063	ACPM(8)	ACAD	MAGTF C2	B	*	(N)	G	0	4.0			8063

T&R CODE	STAGE	PREFIX	GOAL DESCRIPTION	POI	PROF	ENVIRO COND	DEVICE	DEVICE QTY	HOURS	I-CODED	EOM	EVENT CONV
8064	ACPM(8)	ACAD	MAGTF Comm	B	*	(N)	G	0	4.0			8064
8065	ACPM(8)	ACAD	Phasing Ctrl Ashore	B	*	(N)	G	0	4.0			8065
8066	ACPM(8)	ACAD	Information Manageme	B	*	(N)	G	0	4.0			8066
8067	ACPM(8)	ACAD	UAS Spt to the MAGTF	B	*	(N)	G	0	4.0			8067
8080	ACPM(8)	ACAD	Joint Air Ops Module	B	*	(N)	G	0	1.0			8080
8081	ACPM(8)	ACAD	C2 Joint Air Ops	B	*	(N)	G	0	1.0			8081
8082	ACPM(8)	ACAD	TAGS	B	*	(N)	G	0	4.0			8082
8083	ACPM(8)	ACAD	Joint Fire Support	B	*	(N)	G	0	4.0			8083
8084	ACPM(8)	ACAD	CAS	B	*	(N)	G	0	4.0			8084
8085	ACPM(8)	ACAD	Joint Targeting	B	*	(N)	G	0	4.0			8085
8086	ACPM(8)	ACAD	NATO	B	*	(N)	G	0	4.0			8086
8087	ACPM(8)	ACAD	Joint Airspace Ctrl	B	*	(N)	G	0	4.0			8087
8088	ACPM(8)	ACAD	Counter Air & Missil	B	*	(N)	G	0	4.0			8088

4.25.2 T&R Prerequisites, Chaining & Mirroring Matrix

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
1000 PHASE - Core Introduction										
	AIRS(1)	1100	Knowledge of MAGTF	*	(N)	G				
	AIRS(1)	1102	How MAW Sup MAGTF	*	(N)	G				
	AIRS(1)	1104	Offensive Air Suppor	*	(N)	G				
	AIRS(1)	1106	Assault Support	*	(N)	G				
	AIRS(1)	1108	Aerial Reconnaissanc	*	(N)	G				
	AIRS(1)	1110	Anti-Air Warfare	*	(N)	G				
	AIRS(1)	1112	Electronic Warfare	*	(N)	G				
	AIRS(1)	1114	Ctrl A/C & Missiles	*	(N)	G				
	AIRS(1)	1116	Threats to MAGTF	*	(N)	G				
	AIRS(1)	1118	Thrt Affecting DASC	*	(N)	G				
	AIRS(1)	1120	Operations Docs for	*	(N)	G				
	AIRS(1)	1122	Prop Hand Class Docs	*	(N)	G				
	AIRS(1)	1124	Oper Air Supt Comm E	*	(N)	G				
	AIRS(1)	1126	Caps of CAC2S	*	(N)	G				
	AIRS(1)	1128	Conduct Comm	*	(N)	G				
	AIRS(1)	1130	Info Sec DASC Ops	*	(N)	G				
	AIRS(1)	1132	Plot Air Supt Info	*	(N)	G				
	AIRS(1)	1134	Immed Air Supt Reqs	*	(N)	G				
	AIRS(1)	1136	TDF	*	(N)	G				
	AIRS(1)	1140	Exchange Info w/TACC	*	(N)	G				
	AIRS(1)	1142	Exchange Info w/FSCC	*	(N)	G				
	AIRS(1)	1144	TBMCS	*	(N)	G				

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	AIRS(1)	1148	Info Exchange w/MAGT	*	(N)	G				
	AIRS(1)	1150	Air Picture	*	(N)	G				
2000 PHASE - Core										
ASO(2)	ACAD(2)	2055	ID ACMs/FSCM	*	(N)	G				TACC AC2E (72XX) 2061
ASO(2)	ACAD(2)	2060	Weather Reports	*	(N)	G				
ASO(2)	ACAD(2)	2065	Aviation Ord	*	(N)	G				TACC AC2E (72XX) 2065
ASO(2)	ACAD(2)	2070	RSOP Plan/Brief	*	(N)	G				
ASO(2)	ACAD(2)	2090	DAS, SCAR, and KB	*	(N)	G			BI	
COMM(2)	COMM(2)	2100	Pacific Cypher Sys	*	(N)	L/S			BI	TACC AC2E (72XX) 2010
COMM(2)	COMM(2)	2105	Use Portable Radio	365	(N)	L			BI	
COMM(2)	COMM(2)	2115	MASS T/E Radios	*	(N)	L/S			BI	
COMM(2)	COMM(2)	2130	ID Comm Problems	*	(N)	L/S			BI	TACC AC2E (72XX) 2011
COMM(2)	COMM(2)	2135	Describe Rx/Tx site	*	(N)	L/S			BI	
EQUIP(2)	EQUIP(2)	2155	Employ OpFac	365	(N)	L			BI	
EQUIP(2)	EQUIP(2)	2160	Caps/Lims Mt/UT Equ	*	(N)	L/S			BI	
IDM(2)	IDM(2)	2200	Coord Track Data	1095	(N)	L/S			BI	TACC AC2E (72XX) 3085
ACR(2)	ACR(2)	2210	Trk/Display ATO Exec	1095	(N)	L/S			BI	
ACR(2)	ACR(2)	2215	Perf Digital Air Ctr	*	(N)	L/S	2800~(N), L/S and; 2803~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2820~(N), L/S		BI	
TRHR(2)	TRHR(2)	2250	Imm Air Support Reqs	1095	(N)	L/S			BI	
TCDS(2)	TCDS(2)	2300	Exc Info TACC/ACE	1095	(N)	L/S			BI	TACC AC2E (72XX) 3081

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
FSCNO(2)	FSCNO(2)	2340	Exchange info FSCC	1095	(N)	L/S			BI	
ASO(2)	FAM(2)	2350	Observe TACP	*	(N)	L			BI	
ASO(2)	FAM(2)	2355	Observe a TACC	*	(N)	L			BI	
ASO(2)	FAM(2)	2365	Observe FSCC	*	(N)	L			BI	
ASO(2)	FAM(2)	2370	Observe TAOC/EWC	*	(N)	L			BI	
ASO(2)	FAM(2)	2375	Observe ATCF	*	(N)	L			BI	
ASO(2)	FAM(2)	2380	Observe LAAD sect/tm	*	(N)	L			BI	
ASO(2)	ASO(2)	2400	Plot air support info	365	(N)	L/S			BI	
ASO(2)	ASO(2)	2405	Conduct in CBRN Envi	*	(N)	L/S			BI	TACC AC2E (72XX) 3043
CC(2)	CC(2)	2455	Extract Critical Inf	1095	(N)	L/S			SI	
CC(2)	CC(2)	2460	Perform CC Admin Fun	*	(N)	L/S			SI	
CC(2)	CC(2)	2465	Pri Comm Links	*	(N)	L/S			SI	
CC(2)	CC(2)	2480	Match Aviation Asset	*	(N)	L/S			SI	
DC(2)	DC(2)	2500	DASC site selection	*	(N)	L/S	6220~(N), L/S		SI	
DC(2)	DC(2)	2505	Emplace a DASC	1095	(N)	L	6220~(N), L		SI	
DC(2)	DC(2)	2510	Determine DASC Requi	*	(N)	L/S	6225~(N), L/S		SI	
DC(2)	DC(2)	2515	Desc displace ops	*	(N)	L/S	6225~(N), L/S		SI	
DC(2)	DC(2)	2520	Phase Ctrl Ashore	*	(N)	L/S	6225~(N), L/S		SI	
DC(2)	DC(2)	2525	Create/Exe DASC Dril	*	(N)	L/S	6225~(N), L/S		WTI	
DC(2)	DC(2)	2530	Dev/Exec Load Plan	*	(N)	L	6225~(N), L		SI	
TDL(2)	TDL(2)	2800	Docs for TDL	*	(N)	G				
TDL(2)	TDL(2)	2803	DASC voice and data	*	(N)	G				TACC AC2E (72XX) 2801
TDL(2)	TDL(2)	2807	TDL Caps of JTDS	*	(N)	G			BI	
TDL(2)	TDL(2)	2808	Describe JDN	*	(N)	G				
TDL(2)	TDL(2)	2809	Desc MTDL Interface	*	(N)	G				

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
TDL(2)	TDL(2)	2810	ID IU Categories	*	(N)	G				
TDL(2)	TDL(2)	2811	ID Basic Track Info	*	(N)	G				
TDL(2)	TDL(2)	2812	ID Info in J-Series	*	(N)	G				
TDL(2)	TDL(2)	2814	Descr Data Filters	*	(N)	G				
TDL(2)	TDL(2)	2817	Define terms Link 16	*	(N)	G				
TDL(2)	TDL(2)	2818	State Char of Link16	*	(N)	G				
TDL(2)	TDL(2)	2819	State Char JREAP	*	(N)	G				
TDL(2)	TDL(2)	2820	ID OPTASKLINK Segmen	*	(N)	G				
TDL(2)	TDL(2)	2821	Purp Inter Coord Pro	*	(N)	G				
TDL(2)	TDL(2)	2822	ICO Responsibilities	*	(N)	G			BI	
TDL(2)	TDL(2)	2823	State Char of VMF	*	(N)	G				
TDL(2)	TDL(2)	2830	Operate ADSI	*	(N)	L			SI	TACC AC2E (72XX) 3830
TDL(2)	TDL(2)	2836	Operate Link 16	1095	(N)	L	2817~(N), L and; 2818~(N), L		SI	TACC AC2E (72XX) 3836
TDL(2)	TDL(2)	2840	Oper JREAP B	*	(N)	L	2819~(N), L		SI	TACC AC2E (72XX) 3840
TDL(2)	TDL(2)	2842	Oper JREAP C	*	(N)	L	2819~(N), L		SI	TACC AC2E (72XX) 3842
C2SYS(2)	C2SYS(2)	2900	TBMCS Client	*	(N)	G				
C2SYS(2)	C2SYS(2)	2910	ESTAT	*	(N)	G				
C2SYS(2)	C2SYS(2)	2911	WARP	*	(N)	G				
C2SYS(2)	C2SYS(2)	2920	Oper AFATDS	*	(N)	G				
C2SYS(2)	C2SYS(2)	2923	TDF Webportal	365	(N)	L/S			BI	
C2SYS(2)	C2SYS(2)	2926	PDSS Basic BM Functions	365	(N)	G			BI	
C2SYS(2)	C2SYS(2)	2928	Control functions of PDSS	365	(N)	G			BI	
C2SYS(2)	C2SYS(2)	2940	IRC Network	*	(N)	G				
3000 PHASE - Mission										

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
IDM(3)	IDM(3)	3000	IDM Basic	*	(N)	L/S	2055~(N), L/S and; 2060~(N), L/S and; 2065~(N), L/S and; 2090~(N), L/S and; 2100~(N), L and; 2105~(N), L and; 2115~(N), L/S and; 2130~(N), L/S and; 2155~(N), L and; 2160~(N), L/S and; 2200~(N), L/S and; 2800~(N), L/S and; 2803~(N), L/S and; 2807~(N), L/S and; 2808~(N), L/S and; 2809~(N), L/S and; 2810~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S and; 2821~(N), L/S and; 2822~(N), L/S and; 2823~(N), L/S and; 2830~(N), L/S and; 2836~(N), L/S and; 2840~(N), L/S and; 2842~(N), L/S and; 3050~(N), L/S and; 3150~(N), L/S and; 8000~(N), L/S		SI	
IDM(3)	IDM(3)	3005	IDM Advanced	1095	(N)	L/S	2400~(N), L/S and; 2405~(N), L/S and; 3000~(N), L/S and; 3055~(N), L/S and; 3155~(N), L/S and; 8020~(N), L/S and; 8040~(N), L/S		SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
TRHR(3)	TRHR(3)	3050	TAR/HR Basic	*	(N)	L/S	2055~(N), L/S and; 2060~(N), L/S and; 2065~(N), L/S and; 2090~(N), L/S and; 2100~(N), L/S and; 2105~(N), L and; 2115~(N), L/S and; 2130~(N), L/S and; 2155~(N), L and; 2160~(N), L/S and; 2250~(N), L/S and; 2926~(N), L/S and; 2928~(N), L/S and; 8000~(N), L/S		SI	
TRHR(3)	TRHR(3)	3055	TAR/HR Advanced	1095	(N)	L/S	2400~(N), L/S and; 2405~(N), L/S and; 2800~(N), L/S and; 2803~(N), L/S and; 2807~(N), L/S and; 2808~(N), L/S and; 2809~(N), L/S and; 2810~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S and; 2821~(N), L/S and; 2823~(N), L/S and; 2900~(N), L/S and; 2911~(N), L/S and; 2940~(N), L/S and; 3050~(N), L/S and; 8020~(N), L/S		SI	
TCDS(3)	TCDS(3)	3100	TAC/DAS Basic	*	(N)	L/S	2055~(N), L/S and; 2060~(N), L/S and; 2065~(N), L/S and; 2090~(N), L/S and; 2100~(N), L/S and; 2105~(N), L and;		SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2115~(N), L/S and; 2130~(N), L/S and; 2155~(N), L and; 2160~(N), L/S and; 2300~(N), L/S and; 2926~(N), L/S and; 2928~(N), L/S and; 8000~(N), L/S			
TCDS(3)	TCDS(3)	3105	TAC/DAS Advanced	1095	(N)	L/S	2400~(N), L/S and; 2405~(N), L/S and; 2800~(N), L/S and; 2803~(N), L/S and; 2807~(N), L/S and; 2808~(N), L/S and; 2809~(N), L/S and; 2810~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S and; 2821~(N), L/S and; 2823~(N), L/S and; 2900~(N), L/S and; 2910~(N), L/S and; 2911~(N), L/S and; 2940~(N), L/S and; 3100~(N), L/S and; 8020~(N), L/S		SI	
FSCNO(3)	FSCNO(3)	3150	FSCNO Basic	*	(N)	L/S	2055~(N), L/S and; 2060~(N), L/S and; 2065~(N), L/S and; 2090~(N), L/S and; 2100~(N), L/S and; 2105~(N), L and; 2115~(N), L/S and; 2130~(N), L/S and; 2155~(N), L and; 2160~(N), L/S and; 2340~(N), L/S and;		SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2365~(N), L and; 2926~(N), L/S and; 2928~(N), L/S and; 8000~(N), L/S			
FSCNO(3)	FSCNO(3)	3155	FSCNO Advanced	1095	(N)	L/S	2400~(N), L/S and; 2405~(N), L/S and; 2800~(N), L/S and; 2803~(N), L/S and; 2807~(N), L/S and; 2808~(N), L/S and; 2809~(N), L/S and; 2810~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S and; 2821~(N), L/S and; 2823~(N), L/S and; 2920~(N), L/S and; 2940~(N), L/S and; 3150~(N), L/S and; 8020~(N), L/S and; 8062~(N), L/S		SI	
CC(3)	CC(3)	3200	CC Basic	*	(N)	L/S	2135~(N), L/S and; 2926~(N), L/S and; 2928~(N), L/S and; 6200~(N), L/S and; 6205~(N), L/S and; 6210~(N), L/S and; 6215~(N), L/S and; 6220~(N), L/S and; 8040~(N), L/S and; 8060~(N), L/S		SI	
CC(3)	CC(3)	3205	CC Advanced	1095	(N)	L/S	2350~(N), L and; 2355~(N), L and; 2370~(N), L and; 2375~(N), L and; 2380~(N), L and; 3000~(N), L/S and; 3050~(N), L/S and; 3100~(N), L/S and; 3150~(N), L/S and; 3270~(N), L/S		SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2455~(N), L/S and; 2460~(N), L/S and; 2465~(N), L/S and; 2480~(N), L/S and; 2808~(N), L/S and; 3200~(N), L/S and; 3475~(N), L/S and; 6200~(N), L/S and; 6205~(N), L/S and; 6210~(N), L/S and; 6215~(N), L/S and; 6220~(N), L/S and; 8080~(N), L/S			
CC(3)	CC(3)	3475	CC during passage	*	(N)	L/S	8040~(N), L/S and; 8060~(N), L/S		SI	
DC(3)	DC(3)	3250	Duties of DASC Chief	1095	(N)	L/S	2070~(N), L/S and; 2500~(N), L/S and; 2505~(N), L and; 2510~(N), L/S and; 2515~(N), L/S and; 2520~(N), L/S and; 2525~(N), L/S and; 2530~(N), L and; 6225~(N), L/S		SI	
ACR(3)	ACR(3)	3270	ACR Basic	*	(N)	L/S	2055~(N), L/S and; 2060~(N), L/S and; 2065~(N), L/S and; 2090~(N), L/S and; 2100~(N), L/S and; 2105~(N), L and; 2115~(N), L/S and; 2130~(N), L/S and; 2155~(N), L and; 2160~(N), L/S and; 2210~(N), L/S and; 2926~(N), L/S and; 2928~(N), L/S and; 8000~(N), L/S		SI	
ACR(3)	ACR(3)	3275	ACR Advanced	1095	(N)	L/S	2215~(N), L/S and; 2400~(N), L/S and; 2405~(N), L/S and;		SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							2800~(N), L/S and; 2803~(N), L/S and; 2807~(N), L/S and; 2808~(N), L/S and; 2809~(N), L/S and; 2810~(N), L/S and; 2811~(N), L/S and; 2812~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2818~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S and; 2821~(N), L/S and; 2823~(N), L/S and; 2900~(N), L/S and; 2910~(N), L/S and; 2940~(N), L/S and; 3270~(N), L/S and; 8020~(N), L/S			
TDL(3)	TDL(3)	3850	Cond TDL Coord Agenc	*	(N)	L/S	2800~(N), L/S and; 2803~(N), L/S and; 2811~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S		SI	
TDL(3)	TDL(3)	3851	Perf TDC Track Prod	*	(N)	L/S	2800~(N), L/S and; 2803~(N), L/S and; 2811~(N), L/S and; 2814~(N), L/S and; 2817~(N), L/S and; 2819~(N), L/S and; 2820~(N), L/S		SI	
TDL(3)	TDL(3)	3856	AC2S VMF Capabilities	1095	(N)	L/S			SI	
4000 PHASE - Core Plus										
ACAD(4)	ACAD(4)	4055	Composite Warfare	*	(N)	G			BI	
ACAD(4)	ACAD(4)	4105	Describe AOMSW	1095	(N)	G			SI	

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
CTRL(4)	CTRL(4)	4200	Ctrl FW or RW Base 1	365	(N)	L/S			BI	
HD(4)	HD(4)	4300	RW Basic	*	(N)	L/S	4200~(N), L/S		SI	
HD(4)	HD(4)	4305	RW Advanced	1095	(N)	L/S	4300~(N), L/S and; 6200~(N), L/S		SI	
TAD(4)	TAD(4)	4350	FW Basic	*	(N)	L/S	4200~(N), L/S		SI	
TAD(4)	TAD(4)	4355	FW Advanced	1095	(N)	L/S	4300~(N), L/S and; 6200~(N), L/S		SI	
FAM(4)	FAM(4)	4410	Observe SACC	1095	(N)	G				
FAM(4)	FAM(4)	4415	Observe NTACC	*	(N)	G				
4500 PHASE - Mission Plus										
CTRL(45)	CTRL(45)	4505	CTRL ISO AOMSW	365	(N)	L/S	4105~(N), L/S and; 4200~(N), L/S		SI	
TDL(48)	TDL(4)	4835	Setup Link 16	*	(N)	L/S			SI	
TDL(48)	TDL(4)	4839	Setup JREAP B	*	(N)	L/S			SI	
TDL(48)	TDL(4)	4841	Setup JREAP C	*	(N)	L/S			SI	
TDL(48)	TDL(4)	4845	Troubleshoot Link 16	1095	(N)	L/S	2836~(N), L		SI	
TDL(48)	TDL(4)	4847	Troubleshoot JREAP B	*	(N)	L/S	2840~(N), L		SI	
TDL(48)	TDL(4)	4848	Troubleshoot JREAP C	*	(N)	L/S	2842~(N), L		SI	
C2SYS(4)	C2SYS(4)	4904	TBMCS Web Map	*	(N)	G				
C2SYS(4)	C2SYS(4)	4905	AATWEB	*	(N)	G				
C2SYS(4)	C2SYS(4)	4906	WEBAD	*	(N)	G				
C2SYS(4)	C2SYS(4)	4907	TBMCS Battle Mgmt	*	(N)	G				
C2SYS(4)	C2SYS(4)	4908	ABIM	*	(N)	G				
C2SYS(4)	C2SYS(4)	4909	FSTAT/FrOB	*	(N)	G				
C2SYS(4)	C2SYS(4)	4912	MCAMP	*	(N)	G				
C2SYS(4)	C2SYS(4)	4913	Import Airspace Group	*	(N)	G				
C2SYS(4)	C2SYS(4)	4914	ABP Shell	*	(N)	G				
C2SYS(4)	C2SYS(4)	4915	Create ground tgts	*	(N)	G				
C2SYS(4)	C2SYS(4)	4916	Create missions	*	(N)	G				

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
C2SYS(4)	C2SYS(4)	4917	Publish ATO	*	(N)	G				
C2SYS(4)	C2SYS(4)	4921	C2PC	*	(N)	G				
C2SYS(4)	C2SYS(4)	4924	Operate JDOCS	1095	(N)	G				
C2SYS(4)	C2SYS(4)	4941	Web Development	*	(N)	G				
5000 PHASE - Instructor Training										
	BI(5)	5000	Princ of instruction	*	(N)	L			BI	
	BI(5)	5010	Indiv T&R Reqs	*	(N)	G				
	BI(5)	5020	Cond T&R Instruct	90	(N)	L	5000~(N), L and; 5010~(N), L		BI	
	SI(5)	5100	Describe T&R Prog	*	(N)	G				
	SI(5)	5110	Cond instruct evals	365	(N)	L	5100~(N), L		SI	
	SI(5)	5120	Perf T&R Admin	*	(N)	L	5100~(N), L and; 5110~(N), L		SI	
	SI(5)	5130	Dev Training Plan	*	(N)	L	5100~(N), L and; 5110~(N), L and; 5120~(N), L		SI	
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)										
	SCHL(6)	6000	WTI	*	(N)	G				
	SCHL(6)	6010	Airspace Course	*	(N)	G				
	SCHL(6)	6011	PRC	*	(N)	G				
	SCHL(6)	6012	Plans/Ops Tech Crse	*	(N)	G				
	SCHL(6)	6015	JAOC2C	*	(N)	G				
	SCHL(6)	6016	JAO Senior Staff	*	(N)	G				
	SCHL(6)	6020	Link16 Basic (JT-100)	*	(N)	G				
	SCHL(6)	6021	Intro to MTDL (JT101)	*	(N)	G				
	SCHL(6)	6022	MAJIC (JT102)	*	(N)	G				
	SCHL(6)	6023	Link16 JIC (US109)	*	(N)	G				
	SCHL(6)	6024	MTDL Planner (JT201)	*	(N)	G				
	SCHL(6)	6025	LUM (JT220)	*	(N)	G				
	SCHL(6)	6026	JICO (JT301)	*	(N)	G				
	SCHL(6)	6027	Adv JICC (JT310)	*	(N)	G				

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	SCHL(6)	6028	ADSI	*	(N)	G				
	SCHL(6)	6067	Airspace Mgmt	*	(N)	G				
	SCHL(6)	6072	AFATDS	*	(N)	G				
	SCHL(6)	6079	JRE-GW Operators	*	(N)	G				
	SCHL(6)	6082	Joint Firepower Crse	*	(N)	G				
	SCHL(6)	6096	Instr Dev Course	*	(N)	G				
	SCHL(6)	6106	Amphib Airspace Ops	*	(N)	G				
	SCHL(6)	6107	Amphib Warfare Indoc	*	(N)	G				
	SCHL(6)	6108	Intermediate Amphib Ops	*	(N)	G				
	SCHL(6)	6109	SACC	*	(N)	G				
	SCHL(6)	6111	JMTC	*	(N)	G				
	QUAL(6)	6200	Qual as ACR	*	(N)	G	3275~(N), G			
	QUAL(6)	6205	Qual as TAR/HR	*	(N)	G	3055~(N), G and; 3856~(N), G			
	QUAL(6)	6210	Qual as TAC/DAS	*	(N)	G	3105~(N), G			
	QUAL(6)	6215	Qual as FSCNO	*	(N)	G	3155~(N), G and; 3856~(N), G			
	QUAL(6)	6220	Qual as IDM	*	(N)	G	3005~(N), G and; 3850~(N), G and; 3851~(N), G and; 6205~(N), G and; 6215~(N), G			
	QUAL(6)	6225	Qual as CC	*	(N)	G	3205~(N), G and; 6200~(N), G and; 6205~(N), G and; 6210~(N), G and; 6215~(N), G and; 6220~(N), G			
	QUAL(6)	6230	Qual as HD	*	(N)	G	4305~(N), G			
	QUAL(6)	6235	Qual as TAD	*	(N)	G	4355~(N), G			
	DESG(6)	6300	DASC Chief	*	(N)	G	3250~(N), G			
	DESG(6)	6320	Basic Instructor	*	(N)	G	5000~(N), G and; 5010~(N), G and;			

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
							5020~(N), G			
	DESG(6)	6321	Senior Instructor	*	(N)	G	5000~(N), G and; 5010~(N), G and; 5020~(N), G and; 5100~(N), G and; 5110~(N), G and; 5120~(N), G and; 5130~(N), G			
	DESG(6)	6322	WTI	*	(N)	G	6000~(N), G			
	DESG(6)	6325	Desg as FLCI	*	(N)	G				
	CERT(6)	6500	Conduct M2 heavy	*	(N)	L			BI	
	CERT(6)	6505	Conduct M240 medium	*	(N)	L			BI	
	CERT(6)	6510	Cond M1014 shotgun	*	(N)	L			BI	
7000 PHASE - MET										
	MET(7)	7001	Airspace Management	730	(N)	L/S			WTI	
	MET(7)	7002	Process Requests	730	(N)	L/S			WTI	
	MET(7)	7003	Echelon	730	(N)	L/S			WTI	
	MET(7)	7004	Procedural Control	730	(N)	L/S			WTI	
	MET(7)	7005	Aviation, Fires, Effects	730	(N)	L/S			WTI	
	MET(7)	7006	AOMSW	730	(N)	L/S			WTI	
8000 PHASE - ACPM										
	ACPM(8)	8000	MACCS Module	*	(N)	G	8001~(N), G and; 8002~(N), G and; 8003~(N), G and; 8004~(N), G and; 8005~(N), G and; 8006~(N), G and; 8008~(N), G			All ground syllabi
	ACPM(8)	8001	MACCS	*	(N)	G				All ground syllabi
	ACPM(8)	8002	TACC	*	(N)	G				All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8003	DASC	*	(N)	G				All ground syllabi
	ACPM(8)	8004	TAOC	*	(N)	G				All ground syllabi
	ACPM(8)	8005	MATC	*	(N)	G				All ground syllabi
	ACPM(8)	8006	LAAD	*	(N)	G				All ground syllabi
	ACPM(8)	8008	MWCS	*	(N)	G				All ground syllabi
	ACPM(8)	8020	ACE Module	*	(N)	G	8021~(N), G and; 8022~(N), G and; 8023~(N), G and; 8024~(N), G and; 8025~(N), G and; 8026~(N), G and; 8027~(N), G and; 8028~(N), G			All ground syllabi
	ACPM(8)	8021	Aviation Ops	*	(N)	G				All ground syllabi
	ACPM(8)	8022	CTRL of A/C & Missil	*	(N)	G				All ground syllabi
	ACPM(8)	8023	OAS	*	(N)	G				All ground syllabi
	ACPM(8)	8024	Assault Support	*	(N)	G				All ground syllabi
	ACPM(8)	8025	Aerial Recon	*	(N)	G				All ground syllabi
	ACPM(8)	8026	Electronic Warfare	*	(N)	G				All ground syllabi
	ACPM(8)	8027	Anti-Air Warfare	*	(N)	G				All ground syllabi
	ACPM(8)	8028	Avn Ground Supt	*	(N)	G				All ground syllabi
	ACPM(8)	8040	Threat Module	*	(N)	G	8041~(N), G and; 8042~(N), G and; 8043~(N), G and; 8044~(N), G			All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8041	S to A Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8042	Fixed Wing Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8043	Rotary Wing Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8044	Missile & UAS Threat	*	(N)	G				All ground syllabi
	ACPM(8)	8060	MAGTF Module	*	(N)	G	8061~(N), G and; 8062~(N), G and; 8063~(N), G and; 8064~(N), G and; 8065~(N), G			All ground syllabi
	ACPM(8)	8061	Grd Combat Ops	*	(N)	G				All ground syllabi
	ACPM(8)	8062	Fire Support in GCE	*	(N)	G				All ground syllabi
	ACPM(8)	8063	MAGTF C2	*	(N)	G				All ground syllabi
	ACPM(8)	8064	MAGTF Comm	*	(N)	G				All ground syllabi
	ACPM(8)	8065	Phasing Ctrl Ashore	*	(N)	G				All ground syllabi
	ACPM(8)	8066	Information Manageme	*	(N)	G				All ground syllabi
	ACPM(8)	8067	UAS Spt to the MAGTF	*	(N)	G				All ground syllabi
	ACPM(8)	8080	Joint Air Ops Module	*	(N)	G	8081~(N), G and; 8082~(N), G and; 8083~(N), G and; 8084~(N), G and; 8085~(N), G and; 8086~(N), G and; 8087~(N), G and; 8088~(N), G			All ground syllabi
	ACPM(8)	8081	C2 Joint Air Ops	*	(N)	G				All ground syllabi

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PROFICIENCY	ENVIRO COND	DEVICE	PREREQUISITES	CHAINING	INSTRUCTOR	MIRROR FROM
	ACPM(8)	8082	TAGS	*	(N)	G				All ground syllabi
	ACPM(8)	8083	Joint Fire Support	*	(N)	G				All ground syllabi
	ACPM(8)	8084	CAS	*	(N)	G				All ground syllabi
	ACPM(8)	8085	Joint Targeting	*	(N)	G				All ground syllabi
	ACPM(8)	8086	NATO	*	(N)	G				All ground syllabi
	ACPM(8)	8087	Joint Airspace Ctrl	*	(N)	G				All ground syllabi
	ACPM(8)	8088	Counter Air & Missil	*	(N)	G				All ground syllabi

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4.25.3 T&R Range, Ordnance & External Resources Matrix

SKILL	STAGE	T&R CODE	GOAL DESCRIPTION	PRIMARY ORDNANCE	ALTERNATE ORDNANCE	RANGE TYPE	EXTERNAL RESOURCES	EQUIPMENT
2000 PHASE - Core								
C2SYS(2)	C2SYS(2)	2926	PDSS Basic BM Functions					CAC2S
C2SYS(2)	C2SYS(2)	2928	Control functions of PDSS					CAC2S
3000 PHASE - Mission								
TDL(3)	TDL(3)	3856	AC2S VMF Capabilities					AFATDS, CAC2S
6000 PHASE - Requirements, Certifications, Qualifications, and Designations (RCQD)								
	CERT(6)	6500	Conduct M2 heavy	(400) A555, (100) A576, (400) A598				
	CERT(6)	6505	Conduct M240 medium	(800) A111, (200) A131, (800) A143				
	CERT(6)	6510	Cond M1014 shotgun	(12) A011, (12) A023				
7000 PHASE - MET								
	MET(7)	7003	Echelon	(12) A011, (12) A023, (100) A059, (20) A063, (120) A080, (800) A111, (200) A131, (800) A143, (400) A555, (100) A576, (400) A598				