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From: Commandant of the Marine Corps  
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Subj: TACTICAL AIR OPERATIONS CENTER TRAINING AND READINESS  
MANUAL

Ref: (a) NAVMC 3500.14C

Encl: (1) TAOC T&R Manual

1. Purpose. In accordance with reference (a), enclosure (1) contains revised standards and regulations regarding the training of Tactical Air Operations Center (TAOC) Marines.

2. Cancellation. NAVMC 3500.43, NAVMC 3500.74

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

a. Updated to be align with reference (a) in format and content.

b. Combined TAOC Operations and TAOC Maintenance T&R manuals in to one agency manual.

c. Added the 7000 Phase, Mission Essential Task phase. This Phase is designed to eventually take the place of the Marine Corps Combat Readiness program.

d. Removed Director positions from the Tactical Air Defense Controller syllabus and refocused training to control and surveillance.

e. Incorporated Information Assurance training for TAOC Maintenance Marines.

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distribution is unlimited.

f. Reorganized training for the Tactical Air Defense Controller to adjust for the merge of the Air Control Electronic Operator syllabus.

4. Information. Recommended changes to this Manual should be submitted via the syllabus sponsor and the appropriate chain of command to: Commanding General (CG), Training and Education Command (TECOM), Marine Air Ground Task Force Training and Education Standards Division (MTESD) (C 465), Aviation Standards Branch using standard Naval correspondence or the Automated Message Handling System plain language address: CG TECOM MTESD.

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

6. Certification. Reviewed and approved this date.



T. M. MURRAY  
By direction

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CHAPTER 1

TACTICAL AIR OPERATIONS CENTER/EARLY WARNING AND CONTROL SITE  
TRAINING AND READINESS AGENCY REQUIREMENTS

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CHAPTER 1

TACTICAL AIR OPERATIONS CENTER  
TRAINING AND READINESS AGENCY REQUIREMENTS

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. Support the MAGTF Commander by providing task organized agencies to perform airspace surveillance, air direction and control, coordination, information exchange and weapons systems integration for the six functions of Marine aviation in support of MAGTF operations and joint/combined operations.

1.2 TABLE OF ORGANIZATION (T/O). Information below depicts the TACTICAL AIR OPERATIONS CENTER (TAOC) T/O information as of the date of this directive.

Marine Air Control Squadron						
ROLL-UP UNIT	UICs (HQTRS, DET TAOC, DET EW/C)			T/Os (HQTRS, DET TAOC, DET EW/C)		
MACS-1	M00885	M00881	M00886	8641	8642	8644
MACS-2	M00871	M00872	M00873	8641	8642	8644
MACS-24	M01309	M01235	M01335	8641A	8642A	8644A
MACS-4	M00861	M00862		8641	8642	
MOS Totals (roll-up in order MACS 1/2/24/4):						
5902 – 2/2/2/2						
5910 – 2/2/2/1						
5970 – 2/2/2/2						
7202 – 5/5/6/4						
7210 – 16/16/15/12						
5939 – 11/11/11/8						
5948 – 31/31/31/21						
5974 – 8/8/8/5						
5979 – 21/21/21/15						
7236 – 66/66/66/43						

1.3 SIX FUNCTIONS OF MARINE AVIATION

SIX FUNCTIONS OF MARINE AVIATION		
FUNCTION	ABBREVIATION	DESCRIPTION
<b>Offensive Air Support</b>	<b>OAS</b>	OAS involves air operations that are conducted against enemy installations, facilities, and personnel in order to directly assist in the attainment of MAGTF objectives by destroying enemy resources or isolating enemy military forces. Its primary support of the warfighting functions is to provide fires and force protection through CAS and DAS.
<b>Assault Support</b>	<b>ASPT</b>	ASPT contributes to the warfighting functions of maneuver and logistics. Maneuver warfare demands rapid, flexible maneuverability to achieve a decision. Assault support uses aircraft to provide tactical mobility and logistic support to the MAGTF for the movement of high priority personnel and cargo within the immediate area of operations (or the evacuation of personnel and cargo).
<b>Anti-Air Warfare</b>	<b>AAW</b>	AAW is the actions used to destroy or reduce the enemy air and missile threat to an acceptable level. The primary purpose of AAW is to gain and maintain whatever degree of air superiority is required; this permits the conduct of operations without prohibitive interference by opposing air and missile forces. AAW's other purpose is force protection.
<b>Electronic Warfare</b>	<b>EW</b>	EW is any military action involving the use of electromagnetic and directed energy to control the electromagnetic spectrum or to attack the enemy. EW supports the warfighting functions of fires, command and control, and intelligence through the three major subdivisions: electronic attack, electronic protection, and electronic warfare support.
<b>Control of Aircraft &amp; Missiles</b>	<b>CoA&amp;M</b>	The control of aircraft and missiles supports the warfighting function of Command and Control. The ACE commander maintains centralized command, while control is decentralized and executed through the Marine Air Command and Control System (MACCS). CoA&M integrates the other five functions of Marine Aviation by providing the commander with the ability to exercise Command and Control authority over Marine Aviation assets.
<b>Aerial Reconnaissance</b>	<b>AerRec</b>	AerRec employs visual observation and/or sensors in aerial vehicles to acquire intelligence information. It supports the intelligence warfighting function and is employed tactically, operationally, and strategically. The three types of air reconnaissance are visual, multi-sensor imagery, and electronic.

1.4 ABBREVIATIONS

TAOC/EWC	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILLS (2000 PHASE)	
AC	ASSISTANT CONTROLLER
ACAD	ACADEMICS
AFAM	AIR CONTROL FAMILIARIZATION
AIC	AIR INTERCEPT CONTROLLER
C2SYS	COMMAND AND CONTROL SYSTEMS
CC	CREW CHIEF
CD	COLLATERAL DUTY
CMN	MACCS MAINTENANCE COMMON
COMSEC	COMMUNICATION SECURITY
CONFIG	CONFIGURATION
DAC	DEEP AIR CONTROLLER
DCHF	DETACHMENT CHIEF
DETCO	DETACHMENT COMMANDER

DLC	DATA LINK COORDINATOR
EQUIP	EQUIPMENT
FAM	FAMILIARIZATION
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
IFF	IDENTIFICAITON FRIEND OR FOE
LFAM	LOCAL FAMILIARIZATION
LRR	LONG RANGE RADAR
MC	MISSILE CONTROLLER
MMGT	MAINTENANCE MANAGEMENT
MRR	MEDIUM RANGE RADAR
OMGT	OPERATIONAL MANAGEMENT
RDR	RADAR
SAD	SENIOR AIR DIRECTOR
SD	SURVEILLANCE DIRECTOR
SO	SURVEILLANCE OPERATOR
TATC	TACTICAL AIR TRAFFIC CONTROLLER
TMDE	TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT
WD	WEAPONS DIRECTOR
<b>MISSION SKILL (3000 Phase)</b>	
AC	ASSISTANT CONTROLLER
ACAD	ACADEMICS
AIC	AIR INTERCEPT CONTROLLER
C2SYS	COMMAND AND CONTROL SYSTEMS
CC	CREW CHIEF
DAC	DEEP AIR CONTROLLER
DCHF	DETACHMENT CHIEF
DETCO	DETACHMENT COMMANDER
DLC	DATA LINK COORDINATOR
EQUIP	EQUIPMENT
EWC	EARLY WARNING AND CONTROL SITE
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
LRR	LONG RANGE RADAR
MACG	MARINE AIR CONTROL GROUP
MC	MISSILE CONTROLLER
MMGT	MAINTENANCE MANAGEMENT
MRR	MEDIUM RANGE RADAR
OMGT	OPERATIONAL MANAGEMENT
SAD	SENIOR AIR DIRECTOR
SD	SURVEILLANCE DIRECTOR
SO	SURVEILLANCE OPERATOR
TAOC	TACTICAL AIR OPERATIONS CENTER
TATC	TACTICAL AIR TRAFFIC CONTROLLER
WD	WEAPONS DIRECTOR
<b>CORE PLUS (4000 Phase)</b>	
ACAD	ACADEMICS
ADST	AIR DEFENSE SYSTEMS TECHNICIAN
C2SYS	COMMAND AND CONTROL SYSTEMS
DETCO	DETACHMENT COMMANDER
DLC	DATA LINK COORDINATOR
EQUIP	EQUIPMENT
LRR	LONG RANGE RADAR

MACG	MARINE AIR CONTROL GROUP
MMGT	MAINTENANCE MANAGEMENT
MRR	MEDIUM RANGE RADAR
OMGT	OPERATIONAL MANAGEMENT
SAD	SENIOR AIR DIRECTOR
<b>INSTRUCTOR (5000 Phase)</b>	
AICI	AIR INTERCEPT CONTROL INSTRUCTOR
BI	BASIC INSTRUCTOR
MDTI	MARINE DIVISION TACTICS INSTRUCTOR
SFTI	STRIKE FIGHTER TACTICS INSTRUCTOR
SI	SENIOR INSTRUCTOR
WTI	WEAPONS AND TACTICS INSTRUCTOR
<b>CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)</b>	
AC	ASSISTANT CONTROLLER
ACSAT	AVIATION COMMUNICATIONS SYSTEM ADVANCED TECHNICIAN
ACSBT	AVIATION COMMUNICATIONS SYSTEM S BASIC TECHNICIAN
ACSCC	AVIATION COMMUNICATIONS SYSTEMS CREW CHIEF
ACSMC	AVIATION COMMUNICATIONS SYSTEMS MAINTENANCE CHIEF
AIC	AIR INTERCEPT CONTROLLER
ARAT	AVIATION RADAR ADVANCED TECHNICIAN
ARBT	AVIATION RADAR BASIC TECHNICIAN
ARC	AVIATION RADAR CHIEF
ARC63	AVIATION RADAR 63 CHIEF
ARMC	AVIATION RADAR MAINTENANCE CHIEF
ARMO	AVIATION RADAR MAINTENANCE OFFICER
CAL CD	CALIBRATIONS COLLATERAL DUTY
CAT	COMPTIA A+ TECHNICIAN
CC	CREW CHIEF
CNT	COMPTIA NETWORK+ TECHNICIAN
CST	COMPTIA SAFETY+ TECHNICIAN
DAC	DEEP AIR CONTROLLER
DCHF	DETACHMENT CHIEF
DETCO	DETACHMENT COMMANDER
DLC	DATA LINK COORDINATOR
EMB CD	EMBARK COLLATERAL DUTY
HAZMAT CD	HAZARDOUS MATERIAL COLLATERAL DUTY
MC	MISSILE CONTROLLER
MIMMS CD	MIMMS COLLATERAL DUTY
MOD CD	MODIFICATIONS COLLATERAL DUTY
PUB CD	PUBLICATIONS COLLATERAL DUTY
QC CD	QUALITY CONTROL COLLATERAL DUTY
SAD	SENIOR AIR DIRECTOR
SAF CD	SAFETY COLLATERAL DUTY
SD	SURVEILLANCE DIRECTOR
SO	SURVEILLANCE OPERATOR
TATC	TACTICAL AIR TRAFFIC CONTROLLER
TDSAAT	TACTICAL DATA SYSTEM ADMINISTRATOR ADVANCED TECHNICIAN
TDSABT	TACTICAL DATA SYSTEM ADMINISTRATOR BASIC TECHNICIAN
TDSAT	TACTICAL DATA SYSTEM ADVANCED TECHNICIAN
TDSBT	TACTICAL DATA SYSTEM BASIC TECHNICIAN
TDSCC	TACTICAL DATA SYSTEM CREW CHIEF
TDSCC	TACTICAL DATA SYSTEM CREW CHIEF
TDSMC	TACTICAL DATA SYSTEM MAINTENANCE CHIEF
TOOLS CD	TOOLS COLLATERAL DUTY
TRNG CD	TRAINING COLLATERAL DUTY

WD	WEAPONS DIRECTOR
<b>MISSION ESSENTIAL TASK (MET) (7000 Phase)</b>	
COND	CONDITION

1.5 MISSION ESSENTIAL TASK LIST. 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 and 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.

TAOC AND EW/C OPERATIONS		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	ABBREVIATION	MCT DESCRIPTION
MCT 5.3.2.7.1	TAOC	ESTABLISH AND CONDUCT TACTICAL AIR OPERATIONS CENTER (TAOC) OPERATIONS
MCT 5.3.2.7.1.2	EWC	ESTABLISH AND CONDUCT EARLY WARNING AND CONTROL OPERATIONS

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

TAOC AND EW/C OPERATIONS							
MISSION ESSENTIAL TASK LIST (METL)							
CORE							
MET	ABBREVIATION	SIX FUNCTIONS OF MARINE AVIATION					
		OAS	ASPT	AAW	EW	CoA&M	AerRec
MCT 5.3.2.7.1	TAOC	X	X	X		X	
MCT 5.3.2.7.1.2	EWC	X	X	X		X	

1.7 MISSION ESSENTIAL TASKS (MET) OUTPUT STANDARDS

TAOC AND EW/C OPERATIONS					
CORE MET OUTPUT STANDARDS					
MET	ABBREVIATION	OUTPUT STANDARDS	OUTPUT HOURS (PER DAY SUSTAINED FOR 90 DAYS)		
			MAX HRS PER CREW	HRS PER DAY	TOTAL NUMBER OF CREWS
MCT 5.3.2.7.1	TAOC	ABLE TO DISPLAY AND DISSEMINATE AIR/GROUND SURVEILLANCE INFORMATION TO DESIGNATED ADJACENT, HIGHER, SUBORDINATE AGENCIES AND AIRCRAFT	12	24	2 TAOC OPERATOR CREWS
		ABLE TO PROVIDE AIRSPACE CONTROL FOR ALL ASSIGNED AND ITINERANT AIRCRAFT IN THE ASSIGNED SECTOR			

		ABLE TO CONDUCT AAW OPERATIONS THAT RESULT IN THE REDUCTION OF THE EFFECTS OF ENEMY AIRCRAFT, SURFACE-TO-AIR WEAPONS, AND THEATER MISSILES WITHIN THE ASSIGNED SECTOR			
		ABLE TO CONDUCT SUSTAINED OPERATIONS			
MCT 5.3.2.7.1.2	EWC	ABLE TO DISPLAY AND DISSEMINATE AIR/GROUND SURVEILLANCE INFORMATION TO DESIGNATED ADJACENT, HIGHER, SUBORDINATE AGENCIES AND AIRCRAFT	12	24	2 EW/C OPERATOR CREWS
		ABLE TO PROVIDE AIRSPACE CONTROL FOR ALL ASSIGNED AND ITINERANT AIRCRAFT IN THE ASSIGNED SECTOR			
		ABLE TO DETECT AND IDENTIFY AIR THREATS OUT TO 160NM FROM ORIGIN			
		ABLE TO PROVIDE LIMITED CONTROL OF AIR OR GROUND BASED WEAPONS SYSTEMS			
		ABLE TO CONDUCT SUSTAINED OPERATIONS			

1.8 MET TO MISSION SKILL/MET PHASE MATRIX

CORE/MISSION/COREPLUS SKILL TO MISSION ESSENTIAL TASK (MET) MATRIX																																				
MET	2000 PHASE																																			
	CORE SKILL																																			
	AC	ACAD	ACAD1	ACAD2	AFAM	AIC 1	AIC 2	C2SYS	CC	CD	CMN	COMSEC	CONFIG	DAC	DCHF	DETCO	DLC	EQUIP	FAM	IAWFAT	IAWFNT	IAWFST	IFF	LFAM	LRR	MC	MMGT	MRR	OMGT	RDR	SAD	SD	SO	TATC	TMDE	WD
MCT 5.3.2.7.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MCT 5.3.2.7.1.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
MET	3000 PHASE																																			
	MISSION SKILL																																			
	AC	ACAD	AIC 3	C2SYS	CC	DAC	DCHF	DETCO	DLC	EQUIP	EWC	IAWFAT	IAWFNT	IAWFST	LRR	MACG	MC	MMGT	MRR	OMGT	SAD	SD	SO	TAOC	TATC	WD										
MCT 5.3.2.7.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MCT 5.3.2.7.1.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MET	4000 PHASE																																			
	CORE PLUS SKILL																																			
	ACAD	C2SYS	DETCO	DLC	EQUIP	LRR	MACG	MMGT	MRR	OMGT	SAD																									
MCT 5.3.2.7.1	X	X	X	X	X	X	X	X	X	X																										
MCT 5.3.2.7.1.2	X	X	X	X	X	X	X	X	X	X																										

1.9 CORE MODEL MINIMUM REQUIREMENT (CMMR) SKILLS PROFICIENCY REQUIREMENTS. The CMMR is the optimum number of crew personnel, per crew position, to be trained per stage as detailed below.

TAOC/EWC CMMR CREWS										
CMMR POSITIONS	5902	5910	5939	5948	5970	5974	5979	7202	7210	7236
TAOC DETACHMENT S-6 OFFICER	1/0	0	0	0	0	0	0	0	0	0
DATA SYSTEMS MAINTENANCE OFFICER	0	0	0	0	1/0	0	0	0	0	0
AVIATION RADAR MAINTENANCE OFFICER	0	1/1	0	0	0	0	0	0	0	0
Aviation Radar Maintenance Chief (ARMC)	0	0	0	1/1	0	0	0	0	0	0
Tactical Data Systems Maintenance Chief (TDSMC)	0	0	0	0	0	0	1/1	0	0	0
Aviation Radar Chief (ARC)	0	0	0	1/1	0	0	0	0	0	0
Aviation Radar Chief 63 (ARC63)	0	0	0	1/0	0	0	0	0	0	0
Tactical Data Systems Crew Chief (TDSCC).	0	0	2/2*	0	0	2/2*	2/2*	0	0	0
Aviation Communications Systems Advanced Technician (ACSAT).	0	0	2/0	0	0	0	0	0	0	0
Aviation Radar Advanced Technician (ARAT).	0	0	0	2/2	0	0	0	0	0	0
Tactical Data Systems Administrator Advanced Technician (TDSAAT).	0	0	0	0	0	2/0	0	0	0	0
Tactical Data Systems Advanced Technician (TDSAT).	0	0	0	0	0	0	2/2	0	0	0
Aviation Communications Systems Basic Technician (ACSBT).	0	0	2/2	0	0	0	0	0	0	0
Aviation Radar Basic Technician (ARBT).	0	0	0	10/6	0	0	0	0	0	0
Tactical Data Systems Administrator Basic Technician (TDSABT).	0	0	0	0	0	2/2	0	0	0	0
Tactical Data Systems Basic Technician (TDSBT).	0	0	0	0	0	0	4/2	0	0	0
Senior Air Director (SAD)	0	0	0	0	0	0	0	0	2/2	0
Weapons Director (WD)	0	0	0	0	0	0	0	0	4/2	0
Surveillance Director (SD)	0	0	0	0	0	0	0	0	2/2	0
Detachment Commander (DETCO)	0	0	0	0	0	0	0	1/0	0/1	0
Data Link Coordinator (DLC)	0	0	0	0	0	0	0	0	0	2/2
Surveillance Operator (SO)	0	0	0	0	0	0	0	0	0	4/4
Tactical Air Traffic Controller (TATC)	0	0	0	0	0	0	0	0	0	4/0
Deep Air Controller (DAC)	0	0	0	0	0	0	0	0	0	2/0
Air Intercept Controller (AIC)	0	0	0	0	0	0	0	0	0	4/4
Missile Controller (MC)	0	0	0	0	0	0	0	0	0	2/0
Assistant Controller (AC)	0	0	0	0	0	0	0	0	0	6/4
Crew Chief (CC)	0	0	0	0	0	0	0	0	0	2/2
Detachment Chief (DETC)	0	0	0	0	0	0	0	0	0	1/1

**Note:** (\*) While the minimum requirement is to have 2 TDSCC's from the EW/C and 2 TDSCC's from the TAOC, these can be filled by any 5939, 5974, or 5979 who meets the prerequisites for the position.

1.10 READINESS REPORTING. The paragraphs and tables below delineate the minimum crew qualifications and designations required to contribute

to unit readiness. Chapter 7 of the Aviation T&R Program Manual provides additional guidance and a detailed description of readiness reporting using the Defense Readiness Reporting System--Marine Corps (DRRS--MC) and the Current Readiness program.

1.10.1 Combat Leadership requirements for readiness reporting are per paragraph 1.12.

1.11 INSTRUCTOR DESIGNATIONS (5000 Phase)

TAOC										
INSTRUCTOR DESIGNATIONS (5000 Phase)										
CMMR										
INSTRUCTOR DESIGNATIONS	5902	5910	5939	5948	5970	5974	5979	7202	7210	7236
BASIC INSTRUCTOR	1	1	2	1	1	2	2	0	3	6
SENIOR INSTRUCTOR	1	1	1	1	1	1	1	0	2	2
WEAPONS AND TACTICS INSTRUCTOR	1	1	0	0	1	0	0	1	1	1
AICI	0	0	0	0	0	0	0	0	0	2
SFTI	0	0	0	0	0	0	0	0	0	2
MDTI	0	0	0	0	0	0	0	0	0	2

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

TAOC/EWC											
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD)											
(6000 Phase)											
CREW COMPOSITION	5902	5910	5939	5948	5970	5974	5979	7202	7210	7236	
TAOC DETACHMENT S-6 OFFICER	1	0	0	0	0	0	0	0	0	0	
DATA SYSTEMS MAINTENANCE OFFICER	0	0	0	0	1	0	0	0	0	0	
AVIATION RADAR MAINTENANCE OFFICER	0	2	0	0	0	0	0	0	0	0	
Aviation Radar Maintenance Chief (ARMC)	0	0	0	2	0	0	0	0	0	0	
Tactical Data Systems Maintenance Chief (TDSMC)	0	0	0	0	0	0	1	0	0	0	
Aviation Radar Chief (ARC)	0	0	0	2	0	0	0	0	0	0	
Aviation Radar Chief 63 (ARC63)	0	0	0	1	0	0	0	0	0	0	
Designation as a Tactical Data Systems Crew Chief (TDSCC).	0	0	4*	0	0	4*	4*	0	0	0	
Aviation Communications Systems Advanced Technician (ACSAT).	0	0	2	0	0	0	0	0	0	0	
Aviation Radar Advanced Technician (ARAT).	0	0	0	4	0	0	0	0	0	0	
Tactical Data Systems Administrator Advanced Technician (TDSAAT).	0	0	0	0	0	2	0	0	0	0	
Tactical Data Systems Advanced Technician (TDSAT).	0	0	0	0	0	0	4	0	0	0	
Aviation Communications Systems Basic Technician (ACSBT).	0	0	4	0	0	0	0	0	0	0	

TAOC/EWC										
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD)										
(6000 Phase)										
Aviation Radar Basic Technician (ARBT).	0	0	0	16	0	0	0	0	0	0
Tactical Data Systems Administrator Basic Technician (TDSABT).	0	0	0	0	0	4	0	0	0	0
Tactical Data Systems Basic Technician (TDSBT).	0	0	0	0	0	0	6	0	0	0
Local Area Fam	0	0	0	0	0	0	0	0	14	60
Surveillance Director (SD)	0	0	0	0	0	0	0	0	4	0
Weapons Director (WD)	0	0	0	0	0	0	0	0	6	0
Senior Air Director (SAD)	0	0	0	0	0	0	0	0	4	0
Assistant Controller (AC)	0	0	0	0	0	0	0	0	0	10
Tactical Air Traffic Controller (TATC)	0	0	0	0	0	0	0	0	0	8
Deep Air Controller (DAC)	0	0	0	0	0	0	0	0	0	2
Air Intercept Controller (AIC)	0	0	0	0	0	0	0	0	0	8
Missile Controller (MC)	0	0	0	0	0	0	0	0	0	2
Data Link Coordinator (DLC)	0	0	0	0	0	0	0	0	0	4
Surveillance Operator (SO)	0	0	0	0	0	0	0	0	0	8
Crew Chief (CC)	0	0	0	0	0	0	0	0	0	4
COMBAT LEADERSHIP										
MAINT OFFICER	1	0	0	0	0	0	0	0	0	0
RDR MC	0	0	0	1	0	0	0	0	0	0
TDS MC	0	0	0	0	0	0	1	0	0	0
Detachment Commander (DETCO)	0	0	0	0	0	0	0	1	0	0
Detachment Chief (DCHF)	0	0	0	0	0	0	0	0	0	1

**Note:** (\*) While the minimum requirement is to have 2 TDSCC's from the EW/C and 2 TDSCC's from the TAOC, these can be filled by any 5939, 5974, or 5979 who meets the prerequisites for the position.

1.13 UNIT EXTERNAL SYLLABUS RESOURCE REQUIREMENTS. Not Applicable.



CHAPTER 2

AVIATION ELECTRONICS MAINTENANCE OFFICER MOS 5902  
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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THIS CHAPTER RESERVED FOR FUTURE USE

CHAPTER 3

AVIATION RADAR MAINTENANCE OFFICER (MOS 5910)/INDIVIDUAL TRAINING AND  
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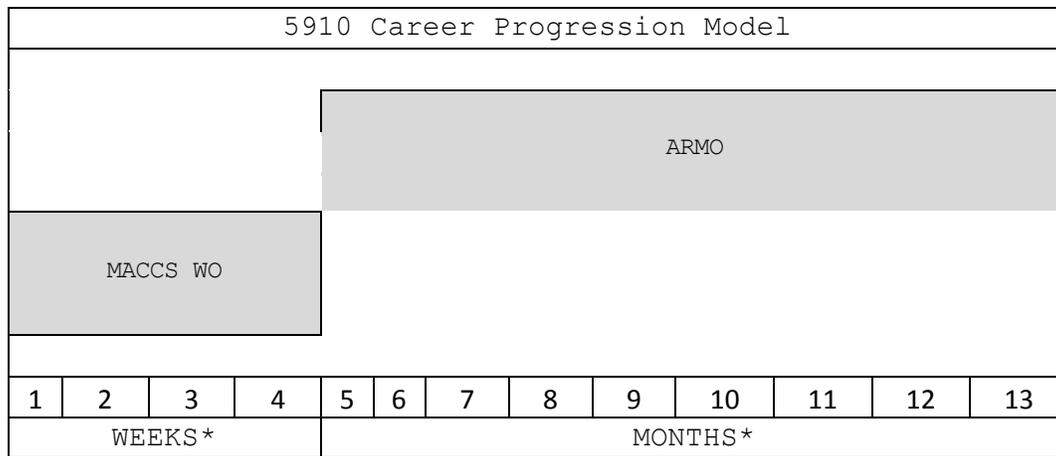
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CHAPTER 3

AVIATION RADAR MAINTENANCE OFFICER (MOS 5910)/INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

3.0 AVIATION RADAR MAINTENANCE OFFICER /5910 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

3.1 5910 TRAINING PROGRESSION MODEL. This model represents the recommended average training progression for the Aviation Communications Systems Technician crewmember. Units should use the model as a point of departure to generate individual training plans.



\* Months indicated are training months, not calendar months.

3.2 ABBREVIATIONS

TAOC MAINTENANCE MOS 5910	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILL (2000 Phase)	
COMSEC	COMMUNICATION SECURITY
EQUIP	EQUIPMENT
FAM	FAMILIARIZATION
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
MMGT	MAINTENANCE MANAGEMENT
OMGT	OPERATIONAL MANAGEMENT

<b>TAOC MAINTENANCE MOS 5910</b>	
<b>CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS</b>	
<b>MISSION SKILL (3000 Phase)</b>	
EWC	EARLY WARNING AND CONTROL SITE
EQUIP	EQUIPMENT
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
MMGT	MAINTENANCE MANAGEMENT
OMGT	OPERATIONAL MANAGEMENT
TAOC	TACTICAL AIR OPERATIONS CENTER
<b>INSTRUCTOR (5000 Phase)</b>	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
WTI	WEAPONS AND TACTICS INSTRUCTOR
<b>CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)</b>	
ARMO	AVIATION RADAR MAINTENANCE OFFICER
CAT	COMPTIA A+ TECHNICIAN
CNT	COMPTIA NETWORK+ TECHNICIAN
CST	COMPTIA SAFETY+ TECHNICIAN

### 3.3 DEFINITIONS

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

<b>Core Plus Skill Proficiency (CPSP)</b>	CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP
<b>Core Plus Mission Proficiency (CPMP)</b>	CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP
<b>MET Phase</b>	This Phase represents community specific unit METs. It combines CMMR crew proficient Marines, Combat Leaders, and designated non-aviation PMOS Marines into combat capable teams.

3.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

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

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

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

**\*Note\***

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

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

**\*Note\***

See Chapter 2 for amplifying information on POI updating.

TAOC MAINTENANCE MOS 5910					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN PROFICIENCY	
BASIC POI		REFRESHER POI			
STAGE	CODE	STAGE	CODE	STAGE	CODE
CORE SKILL (2000 Phase)					
COMSEC	2190R	COMSEC	2190	COMSEC	2190
COMSEC	2191R	COMSEC	2191	COMSEC	2191
COMSEC	2192R	COMSEC	2192	COMSEC	2192
COMSEC	2193R	COMSEC	2193	COMSEC	2193
COMSEC	2194R	COMSEC	2194R		
COMSEC	2195R	COMSEC	2195	COMSEC	2195

TAOC MAINTENANCE MOS 5910					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
COMSEC	2196				
COMSEC	2197				
COMSEC	2198				
COMSEC	2200				
COMSEC	2201				
COMSEC	2202				
COMSEC	2203				
FAM	2210				
FAM	2211				
FAM	2213				
FAM	2214				
FAM	2217				
FAM	2218				
FAM	2222				
FAM	2223				
IAWFAT	2250				
IAWFAT	2251				
IAWFAT	2252				
IAWFAT	2253				
IAWFAT	2254				
IAWFAT	2255				
IAWFAT	2256				
IAWFAT	2257				
IAWFAT	2258				
IAWFNT	2259				
IAWFNT	2260				
IAWFNT	2261				
IAWFNT	2262				
IAWFNT	2263				
IAWFST	2264				
IAWFST	2265				
IAWFST	2266				
IAWFST	2267				
IAWFST	2268				
IAWFST	2269				
EQUIP	2428				
EQUIP	2429				
EQUIP	2430				
EQUIP	2431				
EQUIP	2432				
EQUIP	2433				
EQUIP	2434				
EQUIP	2435				
MMGT	2615				
MMGT	2616				
MMGT	2617				
MMGT	2618				
MMGT	2619				
MMGT	2620				
MMGT	2621				
MMGT	2622				
MMGT	2623				
MMGT	2624				
MMGT	2650R	MMGT	2650R	MMGT	2650R
OMGT	2695				
OMGT	2696				
OMGT	2697				
OMGT	2698				

TAOC MAINTENANCE MOS 5910					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY			MAINTAIN		
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
OMGT	2699				
OMGT	2700				
OMGT	2701				
MISSION SKILL (3000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
TAOC	IWFAT-3280R	TAOC	IWFAT-3280R	TAOC	IWFAT-3280R
	IWFAT-3281R		IWFAT-3281R		IWFAT-3281R
	IWFNT-3282R		IWFNT-3282R		IWFNT-3282R
	IWFST-3283R		IWFST-3283R		IWFST-3283R
	EQUIP-3450R		EQUIP-3450R		EQUIP-3450R
	EQUIP-3451R		EQUIP-3451R		EQUIP-3451R
	MMGT-3660				
	MMGT-3661R		MMGT-3661R		MMGT-3661R
	MMGT-3662				
	OMGT-3716				
OMGT-3717R	OMGT-3717R	OMGT-3717R			
EWC	IWFAT-3280R	EWC	IWFAT-3280R	EWC	IWFAT-3280R
	IWFAT-3281R		IWFAT-3281R		IWFAT-3281R
	IWFNT-3282R		IWFNT-3282R		IWFNT-3282R
	IWFST-3283R		IWFST-3283R		IWFST-3283R
	EQUIP-3450R		EQUIP-3450R		EQUIP-3450R
	EQUIP-3451R		EQUIP-3451R		EQUIP-3451R
	MMGT-3660				
	MMGT-3661R		MMGT-3661R		MMGT-3661R
	MMGT-3662				
	OMGT-3716				
OMGT-3717R	OMGT-3717R	OMGT-3717R			
CORE PLUS SKILL (4000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
EQUIP	4452				
EQUIP	4453				
"S" PREFIX AND BLUE FONT = SIMULATOR EVENT					
"R" SUFFIX AND GREY HIGHLIGHT = R-CODED "REFRESHER" EVENT					

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

3.5.1 INSTRUCTOR DESIGNATIONS

TAOC MAINTENANCE MOS 5910 INSTRUCTOR DESIGNATIONS (5000 Phase)	
INSTRUCTOR DESIGNATION	EVENTS
BASIC INSTRUCTOR (BI)	5000, 5010, 5020
SENIOR INSTRUCTOR (SI)	5000, 5010, 5020, 5100, 5110, 5120, 5130
WEAPONS AND TACTICS INSTRUCTOR (WTI)	6000

3.5.2 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

<b>TAOC MAINTENANCE MOS 5910</b>	
<b>REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)</b>	
<b>RCQD</b>	<b>EVENTS</b>
COMPTIA A+ Technician (CAT) (CERT-6200)	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281
COMPTIA NETWORK+ Technician (CNT) (CERT-6201)	2259, 2260, 2261, 2262, 2263, 3282
COMPTIA SECURITY+ Technician (CST) (CERT-6202)	2264, 2265, 2266, 2267, 2268, 2269, 3283
AVIATION RADAR MAINTENANCE OFFICER (ARMO) (DESG-6300)	2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2210, 2211, 2212, 2213, 2214, 2217, 2218, 2222, 2223, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3450, 3451, 3452, 3453, 3660, 3661, 3662, 3716, 3717

3.6 5910 PROGRAMS OF INSTRUCTION (POI). These tables reflect average time-to-train versus the minimum to maximum time-to-train parameters in the Training Progression Model.

3.6.1 Basic POI

<b>TAOC MAINTENANCE 5910</b>		
<b>BASIC POI</b>		
<b>WEEKS<sup>1</sup></b>	<b>PHASE OF INSTRUCTION</b>	<b>UNIT RESPONSIBLE</b>
0-4	CORE SKILL INTRODUCTION TRAINING	MCCES
5-9	CORE SKILL TRAINING	TACTICAL SQUADRON
10-13	MISSION SKILL TRAINING	TACTICAL SQUADRON

3.6.2 Refresher POI

<b>TAOC MAINTENANCE MOS 5910</b>		
<b>REFRESHER POI</b>		
<b>WEEKS<sup>1</sup></b>	<b>PHASE OF INSTRUCTION</b>	<b>UNIT RESPONSIBLE</b>
VARIES	CORE SKILL TRAINING	TACTICAL SQUADRON
VARIES	MISSION SKILL TRAINING	TACTICAL SQUADRON
VARIES	CORE PLUS	TACTICAL SQUADRON

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

3.7 SYLLABUS NOTES

3.7.1 Environmental Conditions Matrix

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

3.7.2 Device Matrix

DEVICE	
Symbol	Meaning
L	Event shall be conducted live (conducted in the field/garrison, during an exercise, etc). Requires live (non-simulated) execution of the event.
L/S	Event performed live preferred/simulator optional.
S/L	Event performed in simulator preferred/live optional.
G	Ground/academic training. May include Distance Learning, CBT, lectures, self paced.
CBT	Computer Based Training
LAB	Laboratory
LEC	Lecture
CP	Command Post
TEN	Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station.
TEN+	Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement.
Note - If the event is to be flown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	

3.7.3 Program of Instruction Matrix

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

3.7.4 Event Terms

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

3.8 ACADEMIC PHASE (0000)

3.8.1 Purpose. **RESERVED FOR FUTURE USE**

3.8.2 General

3.8.2.1 Admin Notes.

3.8.2.2 Prerequisites.

3.8.2.3 Stages.

3.9 CORE SKILL INTRODUCTION PHASE (1000)

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

3.9.2 General.

3.9.2.1 Prerequisite. Meet the requirement delineated in the MOS Manual (MCBul 1200).

3.9.2.2 Admin Notes. None

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

PAR NO.	STAGE NAME
3.9.3	AIR SCHOOLS (AIRS) STAGE

3.9.3 AIR SCHOOLS (AIRS) STAGE



1. State the purpose for inspecting the functional areas.
2. Identify and review the references for each functional area and obtain applicable and current inspection lists for all.
3. Conduct an inspection of all areas to familiarize the trainee with the specifics of each.
  - a. Calibration Control Program.
  - b. Publication Control Program.
  - c. Quality Assurance Program.
  - d. Preventive Maintenance Program.
  - e. Modification Control Program.
  - f. Tool Control Program.
  - g. MIMMS.
  - h. Training Program.
  - i. Records.
  - j. Safety Program.
  - k. Corrosion Prevention and Control CPAC.
4. Explain the inspection procedures.
  - a. Schedule the inspection.
  - b. Inform functional area manager.
  - c. Turn over folders are IAW the references.
  - d. Submit an executive summary at the conclusion of the inspection.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 4790.2\_ MCO P4400.82\_
2. MCO P4400.160B
3. MCO P4400.150\_
4. MCO 4855.10\_ MCO 4790.18\_ MCO 4733.1\_ MCO 4450.12\_ MCO 4400.16\_ MCO 4105.2\_
5. UM-PLMS W CH 1-2
6. NAVMC DIR 5100.8
7. NAVMC 2761 DTD 1 JUN 08
8. MCO P5215.17\_
9. MCO P5102.1\_ MCO P5090.2\_ MCO 5104.2
10. MCO 5104.1\_ ,
11. MCO 5100.8
12. MCO 5100.29\_ MCO 3000.11\_ M MCO 3710.6
13. MCO 1553.3 (PRELIM) MCO 3500.14

AIRS-1003                      \*                      B    E    G

Goal. Identify the key elements of Operational Orders (OPORD).







Goal. Identify TACC Communications information exchange requirements.

Requirement. Given the references, perform the following:

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

---

AIRS-1009                   \*           B   E   G

Goal. Identify DASC communications information exchange requirements.

Requirement. Given the references, perform the following:

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

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AIRS-1010                   \*           B   E   G

Goal. Analyze the TO/E.

Requirement. Given a TO/E, explain the following:

1. Mission statement.
2. Billet Organization.
3. Equipment Organization.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. URL <https://tfsms.mccdc.usmc.mil>
2. MCO 5311.1\_

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AIRS-1011                   \*           B   E   G

Goal. Identify spectrum management procedures.

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

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 3-40\_
2. MCO 2400.2

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AIRS-1012                   \*           B   E   G





4. MCBUL 3000

AIRS-1016                   \*           B   E   G

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

Requirement. Given the references and an equipment requirement, identify the process for submission and complete the MCUNP form.

1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Describe the process of completing an Urgent UNS form.
5. Describe the process of completing a deliberate UNS form.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. NAVMC 11475
2. MCO 3900.17

AIRS-1017                   \*           B   E   G

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Goal. Validate induction of new equipment into service.

Requirement. Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and validate the induction of new equipment into service.

1. Review the Users Logistics Support Summary (ULSS) or Material Fielding Plan (MFP).
2. Validate new equipment is properly placed into service.
  - a. Ensure record jacket was created with proper documentation IAW the reference.
  - b. Ensure initial SL-3 was performed.
  - c. Ensure an initial LTI was performed.
  - d. Ensure induction of new equipment into calibration cycle a required.
  - e. Ensure equipment is accounted for within EKMS as required.
  - f. Ensure the equipment and proper documentation was sent to Supply.
  - g. Ensure supply received the proper documentation to add equipment to the CMR.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Supply Instructions (SI)
2. ULSS
3. Equipment SL-3
4. Initial Issuing Provision Inventories
5. MCO 5311.1
6. MCO P4400.82
7. UM 4400.124

AIRS-1018                    \*            B    E    G

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Goal. Demonstrate the process to phase out obsolete equipment.

Requirement. Given a Phase out Plan (POP) and applicable references, demonstrate and validate phase out of obsolete equipment, to include at minimum:

1. Review the POP and applicable references.
2. State the purpose of:
  - a. Recoverable Items Report (WIR).
  - b. WIR Online Process Handler program (WOLPH).
  - c. Material Returns (MTR) program.
3. Validate obsolete equipment was disposed of properly by ensuring the following:
  - a. Ensure a final LTI was performed.
  - b. Ensure a final SL-3 was performed.
  - c. Ensure a Recoverable Items Report (WIR) - request for disposition - was submitted using the WOLPH.
  - d. Ensure equipment was disposed of IAW instructions in Phase out plan.
  - e. Ensure the record jackets were completed and accompanied equipment.
  - f. Ensure the equipment and proper documentation was sent to Supply for turn-in.
  - g. Ensure supply received the proper documentation to remove equipment from the CMR.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Supply Instructions (SI)
2. Equipment SL-3
3. Initial Issuing Provision Inventories
4. MCO 5311.1C
5. MCO P4400.82
6. UM 4400.124

AIRS-1019                   \*           B   E   G

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Goal. Identify maintenance funding requirements.

Requirement. Given a scenario, equipment maintenance history and anticipated maintenance shortfalls, propose funding allocations for maintenance activities to create a maintenance budget.

1. Identify and prioritize funding requirements.
2. Provide a maintenance funding request based on requirement and prior year utilization.
3. Provide an anticipated maintenance funding request based on the unit's TEEP.
4. Submit a budget request to the instructor for validation.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4400.150\_
2. MCO P7100.8\_

AIRS-1020                   \*           B   E   G

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Goal. Identify the SECREP management process.

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

1. Define the purpose of the SECREP management process.
2. Define the purpose of Critical Low Density SECREP exchange process.
3. Identify the key components of the SECREP exchange process.
4. Identify the key documentation within each component of the SECREP exchange process.





Goal. Explain the product quality deficiency report (PQDR).

Requirement. Given the reference, an item of equipment or a scenario, identify the following:

1. Purpose of the PQDR.
2. Criteria under which a PQDR should be submitted.
3. Information required for submitting a PQDR.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. UM-4400-124
3. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4. SECNAVINST 4855.5\_, Product Quality Deficiency Report Program)
5. <http://www.logcom.usmc.mil/pqdr/files/PQDR%20Users%20Guide.pdf>

AIRS-1025                    \*            B    E    G

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Goal. Identify major funding lines.

Requirement. Given the references, identify major funding lines:

1. Operation & Maintenance (O&M) Funds.
  - a. Planning Estimate (PE).
    - (1) Direct Support Stock Center (DSSC).
    - (2) Temporary Additional Duty.
    - (3) Fuel.
    - (4) Government-Wide Commercial Purchase Card Program (GCPC).
  - b. Requisition Authority (RA) - Supported Activities Supply System (SASSY).
2. Research, Development, Test & Evaluation (RDT&E).
3. Procurement Marine Corps (PMC).
4. Military Construction (MILCON).
5. Blue Dollars (2F Funds).

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.



3.10.2.2 Admin Notes.

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

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

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

PAR NO.	STAGE NAME
3.10.3	COMMUNICATION SECURITY (COMSEC)
3.10.4	FAMILIARIZATION (FAM)
3.10.5	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
3.10.6	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
3.10.7	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
3.10.8	EQUIPMENT (EQUIP)
3.10.9	MAINTENANCE MANAGEMENT (MMGT)
3.10.10	OPERATIONAL MANAGEMENT (OMGT)

3.10.3 COMMUNICATION SECURITY (COMSEC) STAGE

3.10.3.1 Purpose. To teach the trainee safe handling and storage of classified material, use of common fill devices, crew changeover procedures, and provide familiarization with the EKMS COMSEC callout. Additionally, trainee learns to identify and load CCI devices.

3.10.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

COMSEC-2190 2.0 365 B, R, M L

Goal. Describe proper handling and storage of classified materials.

Requirement. Perform the following:

1. State the different levels of classification.
2. State the marking requirements for each level of classification.
3. State the Two-Person Integrity (TPI) rule.
4. State storage procedures for each level of classification.
5. Identify transportation requirements for classified material.
6. State the sections of the SF-702.

7. Identify the approved security containers utilized for storage.
8. Identify the procedures for handling Controlled Cryptographic Items (CCIs).

Performance Standard. With the aid of reference, state the above requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5510.18\_
2. EKMS-1\_
3. SECNAVINST 5510.36
4. UNIT SOP

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COMSEC-2191 2.0 365 B, R, M L

Goal. State the physical security requirements for classified areas.

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

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

Performance Standard. With the aid of reference, pass an exam without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5530.14
2. FM 5-34\_

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COMSEC-2192 2.0 365 B, R, M L

Goal. Create a classified area physical security diagram.

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

1. Entry control point(s).
2. Perimeter barrier.
3. Communication lines.

Performance Standard. With the aid of reference, draw a diagram depicting the information listed in the requirement without error; instructor will validate that the diagram supports the scenario. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2191

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5530.14
2. FM 5-34\_

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COMSEC-2193 2.0 365 B, R, M L

Goal. Conduct classified material inventory.

Requirement. During a crew change over, perform the following:

1. Conduct classified material inventory.
2. Conduct EKMS inventory.
3. Destroy superseded key materials.

Performance Standard. With the aid of reference, conduct the requirements without discrepancy.

Instructor. BI, SI

Prerequisite. 2190

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1A
2. 5530

COMSEC-2194 2.0 \* B, R L

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Goal. Extract key material information from EKMS COMSEC callout.

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

1. State the purpose of the EKMS COMSEC callout.
2. Identify the five main pieces of key information:
  - a. Short Title.
  - b. Edition.
  - c. Segment.
  - d. Classification.
  - e. Supersession date.
3. Identify segment roll over dates and time.

Performance Standard. With the aid of reference, state the purpose and identify the key information on the callout without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2190

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1
2. MCWP 3-40.3

COMSEC-2195 2.0 365 B, R, M L

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Goal. Utilize a Common Fill Device.

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

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

Performance Standard. With the aid of reference, load keying material into appropriate COMSEC equipment using a fill device and destroy superseded keying material without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1\_

COMSEC-2196 2.0 \* B L

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Goal. Ensure CMCC handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify classified material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify classified material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. SECNAV 5510.36\_
2. MCO 5510.18\_
3. UNIT SOP
4. EKMS-1\_

COMSEC-2197 2.0 \* B L

---

Goal. Ensure EKMS material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify EKMS material is stored IAW the reference.
2. Verify proper destruction of material IAW the reference.
3. Verify EKMS material is transported IAW the reference.

Performance Standard. With the aid of reference, validate EKMS material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1
2. UNIT SOP

COMSEC-2198 1.0 \* B L

Goal. Ensure CCI material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify CCI material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify CCI material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1
2. UNIT SOP

COMSEC-2200 4.0 \* B L

Goal. Validate physical security of classified areas.

Requirement. Given a scenario and references, validate physical security requirements of classified areas. Validate the following:

1. Guard schedule.
2. Entry control point.

3. Access Roster.
4. Perimeter.
5. Physical security diagram.

Performance Standard. With the aid of reference, complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2191, 2192

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5530.14
2. FM 5-34\_

COMSEC-2201 4.0 \* B \_\_\_\_\_ L

Goal. Verify the proper use of a Common Fill Device.

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

1. Describe the purpose of common fill device.
2. Describe a common fill device loading procedure.
3. Verify the configuration the common fill device.
4. Identify common fill device indicators and messages.
5. Verify the transfer of key material to Controlled Cryptographic Item (CCI) equipment.

Performance Standard. With the aid of reference, complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2190, 2195

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1A
2. SKL
3. Applicable TM for CCI

COMSEC-2202 4.0 \* B \_\_\_\_\_ L

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

Requirement. Perform the Following:

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

Performance Standard. Without the aid of references, physically identify the above items and describe the use for each without error. This must be completed with 100% accuracy.

Instructor. BI, SI

Prerequisite. 2190, 2193

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 2000-OD/2C Characteristics of US Marine Corps C&E Equipment
2. Fill device user's manual

COMSEC-2203 4.0 \* B \_\_\_\_\_ L

Goal. Identify equipment classification requirements.

Requirement. Given the references, identify the classification level of the following:

1. Hardware.
2. Software.
3. Technical manuals.

Performance Standard. Without the aid of reference, complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit T/E, Unit SOP

#### 3.10.4 FAMILIARIZATION (FAM) STAGE

3.10.4.1 Purpose. To familiarize the trainee on non-MOS equipment.

3.10.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

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FAM-2210    2.0    \*    B    L

Goal. Describe HF, VHF, UHF, SATCOM radio characteristics.

Requirement. Given a list of radio equipment, describe the following characteristics for each:

1. AN/VRC 103.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
2. AN/VRC 104.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
4. AN/GRC 171B(V)4.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM-09780A-13&P/1 Radio Set AN/GRC-171B(V)4
2. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio
3. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
4. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System

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FAM-2211    3.0    \*    B    L

Goal. State the purpose of Automated Data Processing Equipment (ADPE).

Requirement. Given references, Network Switch, Router, Server, and Workstation and complete the following:

1. State the purpose for each.
2. Identify software components for each.
3. Identify hardware components for each.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable user manuals

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FAM-2212      2.0      \*      B      L

Goal. Describe the CAC2S.

Requirement. Given a CAC2S and IETM, complete the following:

1. Identify the purpose of the CAC2S.
2. Identify its functions.
3. Identify software.
4. Identify hardware components.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CAC2S IETM

FAM-2213 3.0 \* B L

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Goal. Define Tactical Data Links characteristics.

Requirement. Given the references, perform the following:

1. State the capability of Link 11.
2. State the capability of Link 11B.
3. State the capability of Link 16.
  - a. JREAP A.
  - b. JREAP B.
  - a. JREAP C.
4. State the capability of Army Tactical Data Link-1 (ATDL).
5. State the capability of NATO Link 1.
6. State the capability of Intelligence Broadcast System (IBS).
7. State the capability of Common Operational Picture (COP) Synch Tool (CST).
8. State the capability of Ground Based Data Link Enhanced (GBDLE).
9. List the types of units that utilize each link.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CJCSI 6610.01D, Joint Multi-TADIL Operating Procedures
2. MIL-STD-6011, Link-11/11B
3. MIL-STD-6016, Link-16
4. STANAG 4175, Link 16 terminal (MIDS)

FAM-2214 1.0 \* B L

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Goal. Describe MTAOM equipment.

Requirement. Given the references:

1. Describe the purpose of the System Level Equipment.
2. Describe the purpose of the Digital communications Equipment.
3. Describe the Purpose of the Voice Communications Equipment.
4. Describe the Purpose of the Data Processing Equipment.
5. Describe the Purpose of the Internal Radio Equipment.
6. Describe the Purpose of the Operator interface Equipment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 08611B-OI MTAOM Operations and Organizational Maintenance Manual

FAM-2217      1.0      \*      B      L

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Goal. Describe T/E radios.

Requirement. Describe the characteristics for the following:

1. AN/VRC 103.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
2. AN/VRC 104.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
3. AN/VRC 110.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
4. AN/GRC 171B (V) 4.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
5. AN/GRC-256
  - a. Frequency range
  - b. Power output
  - c. Types of antennas.
6. AN/USQ-140 (V) 2
  - a. Frequency range
  - b. Power output
  - c. Types of antennas.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM-09780A-13&P/1 Radio Set AN/GRC-171B(V)4
2. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio
3. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
4. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System

FAM-2218 1.0 \* B L

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Goal. Describe C2 Applications.

Requirement. Given the references describe purpose of the following:

1. TBMCS.
2. AFATDS.
3. C2PC.
4. JADOCs.
5. Transverse (chat program).

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TBMCS SUMs

FAM-2222 1.0 \* B L

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Goal. Describe TACLAN.

Requirement. Given the references, perform the following:

1. Describe the purpose of the KG-175 TACLAN.
2. State the purpose of the KG-175 TACLAN.

Performance Standard. Perform the requirement to a proficient level

(correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

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FAM-2223    1.0    \*    B    L

Goal. Identify the major components of the Composite Tracking Network (CTN).

Requirement. Given the references, perform the following:

1. Describe the characteristics of the Cooperative Engagement Capability.
2. Describe the characteristics of the antenna.
3. Describe the characteristics of the AN/USG-4A.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Operational Tasking Cooperative Engagement Capability (OPTASKCEC)
2. TM 11406A-OR/2 Command System Tactical AN/MSQ-143
3. TM 11406A-ORG Command System Tactical AN/MSQ-143
4. TM 11406A-OI AN/USG-4A Composite Tracking Network
5. TM 08611B/10987A/11406A-OR/1 Telescopic Mast Family
6. TM 08611B/10987A/11406A-OR/2 Erection Instructions CSA Fanlite
7. TM 08611B/10987A/11406A-OR/3 Appendix G CSA Fanlite

3.10.5 INFORMATION ASSURANCE WORK FORCE A+ (IAWFAT) STAGE

3.10.5.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

3.10.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

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IAWFAT-2250 4.0 \* B E L

Goal. Explain PC hardware.

Requirement. Without the aid of references, perform the following:

1. Explain and apply BIOS settings.
2. Differentiate between motherboard components, their purposes, and properties.
3. Compare RAM types and features.
4. Explain the installation and configuration of expansion cards.
5. Explain installation and configuration of storage devices and appropriate media.
6. Differentiate among various CPU types and features and select the appropriate cooling method.
7. Compare various connection interfaces and explain their purpose.
8. Identify the appropriate power supply based on a given scenario.
9. Evaluate and select appropriate components for a custom configuration, to meet customer specifications or needs.
10. Given a scenario, evaluate types and features of display devices.
11. Identify connector types and associated cables.
12. Explain the installation and configuration of various peripheral devices.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

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IAWFAT-2251 4.0 \* B E L

Goal. Explain networking concepts.

Requirement. Without the aid of references, perform the following:

1. Identify types of network cables and connectors.
2. Categorize characteristics of connectors and cabling.
3. Explain properties and characteristics of TCP/IP.
4. Explain common TCP and UDP ports, protocols, and their purpose.
5. Compare wireless networking standards and encryption types.
6. Install, configure, and deploy a SOHO wireless/wired router using appropriate settings.
7. Compare Internet connection types and features.
8. Identify various types of networks.
9. Compare network devices their functions and features.
10. Given a scenario, use appropriate networking tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2252 4.0 \* B E L

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Goal. Explain laptop features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Install and configure laptop hardware and components.
2. Compare the components within the display of a laptop.
3. Explain the differences between the various printer types and summarize the associated imaging process.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2253 4.0 \* B E L

Goal. Explain printer features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Explain the differences between the various printer types and summarize the associated imaging process.
2. Given a scenario, install, and configure printers.
3. Given a scenario, perform printer maintenance.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2254 4.0 \* B E L

Goal. Explain operational procedures.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, use appropriate safety procedures.
2. Explain environmental impacts and the purpose of environmental controls.
3. Given a scenario, demonstrate proper communication and professionalism.
4. Explain the fundamentals of dealing with prohibited content/activity.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2255 4.0 \* B E L

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Goal. Explain operating systems.

Requirement. Without the aid of references, perform the following:

1. Compare the features and requirements of various Microsoft Operating Systems.
2. Given a scenario, install, and configure the operating system using the most appropriate method.
3. Given a scenario, use appropriate command line tools.
4. Given a scenario, use appropriate operating system features and tools.
5. Given a scenario, use Control Panel utilities (the items are organized by "classic view/large icons" in Windows).
6. Setup and configure Windows networking on a client/desktop.
7. Perform preventive maintenance procedures using appropriate tools.
8. Explain the differences among basic OS security settings.
9. Explain the basics of client-side virtualization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2256 4.0 \* B E L

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Goal. Explain security.

Requirement. Without the aid of references, perform the following:

1. Apply and use common prevention methods.
2. Explain the implementation of security best practices to secure a workstation.
3. Given a scenario, use the appropriate data destruction/disposal method.
4. Given a scenario, secure a SOHO wireless network.
5. Given a scenario, secure a SOHO wired network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2257 4.0 \* B E L

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Goal. Explain Mobile Devices.

Requirement. Without the aid of references, perform the following:

1. Explain the basic features of mobile operating systems.
2. Establish basic network connectivity and configure email.
3. Compare methods for securing mobile devices.
4. Compare hardware differences in regards to tablets and laptops.
5. Execute and configure mobile device synchronization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2258 4.0 \* B E L

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Goal. Explain Troubleshooting.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, explain the troubleshooting theory.
2. Given a scenario, troubleshoot common problems related to motherboards, RAM, CPU and power with appropriate tools.
3. Given a scenario, troubleshoot hard drives and RAID arrays with

appropriate tools.

4. Given a scenario, troubleshoot common video and display issues.
5. Given a scenario, troubleshoot wired and wireless networks with appropriate tools.
6. Given a scenario, troubleshoot operating system problems with appropriate tools.
7. Given a scenario, troubleshoot common security issues with appropriate tools and best practices.
8. Given a scenario, troubleshoot, and repair common laptop issues while adhering to the appropriate procedures.
9. Given a scenario, troubleshoot printers with appropriate tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

### 3.10.6 INFORMATION ASSURANCE WORK FORCE NETWORK+ (IAWFNT) STAGE

3.10.6.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

#### 3.10.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-2259 4.0 \* B E L

Goal. Explain Networking Concepts.

Requirement. Without the aid of references, perform the following:

1. Compare the layers of the OSI and TCP/IP models.
2. Classify how applications, devices, and protocols relate to the OSI model layers.
3. Explain the purpose and properties of IP addressing.
4. Explain the purpose and properties of routing and switching.
5. Identify common TCP and UDP default ports.
6. Explain the function of common networking protocols.
7. Summarize DNS concepts and its components.

8. Given a scenario, implement the following network troubleshooting methodology.
9. Identify virtual network components.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2260 4.0 \* B E L

Goal. Explain Network Installation and Configuration.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, install and configure routers and switches.
2. Given a scenario, install and configure a wireless network.
3. Explain the purpose and properties of DHCP.
4. Given a scenario, troubleshoot common wireless problems.
5. Given a scenario, troubleshoot common router and switch problems.
6. Given a set of requirements, plan and implement a basic SOHO network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2261 4.0 \* B E L

Goal. Explain Network Media and Topologies.

Requirement. Without the aid of references, perform the following:

1. Categorize standard media types and associated properties.
2. Categorize standard connector types based on network media.
3. Compare different wireless standards.
4. Categorize WAN technology types and properties.
5. Describe different network topologies.
6. Given a scenario, troubleshoot common physical connectivity problems.
7. Compare different LAN technologies.
8. Identify components of wiring distribution.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2262 4.0 \* B E L

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Goal. Explain Network Management.

Requirement. Without the aid of references, perform the following:

1. Explain the purpose and features of various network appliances.
2. Given a scenario, use appropriate hardware tools to troubleshoot connectivity issues.
3. Given a scenario, use appropriate software tools to troubleshoot connectivity issues.
4. Given a scenario, use the appropriate network monitoring resource to analyze traffic.
5. Explain the purpose of configuration management documentation.
6. Explain different methods and rationales for network performance optimization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2263 4.0 \* B E L

Goal. Explain Network Security.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, implement appropriate wireless security measures.
2. Explain the methods of network access security.
3. Explain methods of user authentication.
4. Explain common threats, vulnerabilities, and mitigation techniques.
5. Given a scenario, install and configure a basic firewall.
6. Categorize different types of network security appliances and methods.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

### 3.10.7 INFORMATION ASSURANCE WORK FORCE SECURITY+ (IAWFST) STAGE

3.10.7.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

#### 3.10.7.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-2264 4.0 \* B E L

Goal. Explain Network Security.

Requirement. Without the aid of reference, perform the following:

1. Explain the security function and purpose of network devices and technologies.
2. Describe the implementation of secure network administration principles.
3. Describe between network design elements and components.
4. Describe the use common protocols.
5. Identify commonly used default network ports.
6. Describe the implementation of a wireless network in a secure manner.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2265 4.0 \* B E L

Goal. Explain Operational Security.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2266 4.0 \* B E L

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Goal. Explain threats and vulnerabilities.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2267 4.0 \* B E L

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Goal. Explain cryptography.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

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IAWFST-2268 4.0 \* B E L

Goal. Explain access control and identity management.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

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IAWFST-2269 4.0 \* B E L

Goal. Explain application, data and host security.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

### 3.10.8 EQUIPMENT (EQUIP) STAGE

3.10.8.1 Purpose. To train the trainee on basic concepts of equipment maintenance.

3.10.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQUIP-2428 2.0 \* B L

Goal. Identify hazards specific to the LRR and MRR.

Requirement. Given the references and an energized LRRS and MRRS, identify the following hazards:

1. RF.
2. Components.
3. Fire.
4. Suffocation.
5. Emplacement operations and maintenance.
6. Electro-static discharge.

Performance Standard. With the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07751C-OR
2. TM 07736C 14/1-1

EQUIP-2429 2.0 \* B L

Goal. Review system troubleshooting on a MRR.

Requirement. Given the references, a core capable crew, a de-energized MRRS radar with a fault in the system, tools and TMDE, complete the following:

1. Monitor the operational checks and alignments of the radar system.
2. Review symptoms of a fault within the radar system.
3. Review the fault to the line replaceable unit.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.  
TM 07736C Series

EQUIP-2430 2.0 \* B L

Goal. Verify the MRR system configuration.

Requirement. Given the reference, a core capable crew, an operating MRR, and operational documents, complete the following:

1. Verify the appropriate radar frequency.
2. Verify the appropriate radar pulse width.
3. Verify the appropriate MTI range.
4. Verify the appropriate weather sector.
5. Verify the appropriate staggered PRF sector for the operational environment.
6. Verify the appropriate radar blanking sector.
7. Verify and/or adjust the manual STC curve to suit the operational environment.
8. Verify and/or adjust the manual ECM alarm to suit the operational environment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07736C-14/3

EQUIP-2431 2.0 \* B L

Goal. Review system troubleshooting on a long range radar system.

Requirement. Given the references, a core capable crew, a de-energized LRRS radar with a fault in the system, tools and TMDE, complete the following:

1. Direct the operational checks and alignments of the radar system.
2. Review symptoms of a fault within the radar system.
3. Review the fault to the line replaceable unit.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07751C-OR

EQUIP-2432 2.0 \* B L

Goal. Verify the LRR system configuration.

Requirement. Given the reference and an operational LRR, a core capable crew, operational documents, verify the following:

- Radar Frequency.
- Physical Data.
- Atmospheric Data.
- External Alignment.
- IFF Control.
- SET Function Status.

- Platform Level.
- North Alignment.
- Mission.
- Weather Sectors.
- Blanking Sectors.
- Radar Control.
- Scan Rate.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07751C-OR

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EQUIP-2433 2.0 \* B L

Goal. Verify the configuration of the Interrogator Set.

Requirement. Given the references, a core capable crew, operational documents, radar, and an Interrogator set verify the following:

1. Cable configuration.
2. Software parameters.
3. Hardware configuration.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Interrogator TM

EQUIP-2434 2.0 \* B L

Goal. Plan for deployment of radars.

Requirement. Given a scenario to deploy a MRR and a LRR, complete the following events:

1. Establish an accurate equipment density list.
2. Establish an accurate packing list.
3. Establish an accurate T/O list.
4. Coordinate proper heavy lifting support.
5. Establish an accurate bill of materials list.
6. Coordinate COMSEC support.
7. Identify communication requirement.
8. Know required frequencies for radar operation.
9. Establish an accurate Secondary Repairable (SECREP) list required for deployment.
10. Identify a key contacts list for intra squadron section.
11. Identify and request fuel requirements.
12. Identify and request power requirements.
13. Coordinate with MMO for proper procurement procedures during deployment.
14. Identify and request environmental condition unit requirements.
15. Identify and request appropriate transportation requirements.
16. Identify facility requirements.
17. Obtain letter of instruction for deployment.
18. Inspect gear required on the gear list for individual Marines for deployment.
19. Familiarize the Marines with emergency action plan for deployment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Group/Squadron/Shop Standard Operating Procedures

EQUIP-2435 6.0 \* B L

Goal. Prepare to deploy a long range radar system.

Requirement. Given the references, perform the following:

1. Establish an accurate equipment density list.



Requirement. Given the references, end item or scenario, identify and provide the following:

1. Describe the purpose of the PEB.
2. Identify PEB constraints; cost and consumption.
3. Describe proper accountability and usage of PEB material.
4. Provide an authorization request and inventory of PEB material.
5. Describe actions required within Global Combat Support System-Marine Corps (GCSS-MC).

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2C W/CH. 1-2
2. MCO P4400.150E W/ERRATUM CH 1-2
3. MCBUL 3000 (Current FY)
4. Planner 101 course
5. [https://gcssmc-sso.csd.disa.mil/gcssmc\\_portal/training.html](https://gcssmc-sso.csd.disa.mil/gcssmc_portal/training.html)

MMGT-2616 6.0 \* B L

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

Requirement. Ensure the timely performance of all corrective maintenance actions per the references.

1. Verify the induction process:
  - a. Confirm SL-3 accountability.
  - b. Ensure visual inspection occurs.
  - c. Verify record jacket.
  - d. Verify proper organizational PM.
2. Ensure correctness of Service Request (SR) and NAVMC 1018.
3. Determine availability of resources.
4. Ensure proper troubleshooting of faulty item.
5. Ensure repair parts are ordered and correctness of SR.
6. Ensure faulty item is repaired to code A status.
7. Ensure safety measures are adhered to during repair process.
8. Conduct quality control procedures:
  - a. Review quality control procedures.
  - b. Verify quality control inspectors based on individual qualifications on equipment are assigned in writing.

9. Verification of MI and TI.
10. Verify proper closeout of SR.
11. Ensure equipment record jacket is updated.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2C
2. TM-4700-15/1\_
3. UM-4790.5
4. MCO P4400.16G
5. MCBUL 3000
6. Associated Equipment TM

MMGT-2617 6.0 \* B L

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Goal. Identify Critical Low Density SECREP assets and required on-hand quantities.

Requirement. Given a practical application scenario, applicable maintenance and supply history documents, review them and provide recommendations for organizational Critical Low Density SECREP assets and required on-hand quantities. Write a "justify non-demand supported secrep allowances" letter as required.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 4790.2C w/ch.1-2
2. MCO P4400.150E W/ERRATUM CH 1-2

3. FEDLOG
4. Reference is MCO P440.151B

MMGT-2618 6.0 \* B L

Goal. Develop a maintenance section budget.

Requirement. Utilizing equipment maintenance history and forecasting anticipated maintenance shortfalls, propose funding allocations for maintenance activities.

1. Provide maintenance funding request based on current requirements while considering prior year utilization history.
  - a. Preventive Maintenance.
  - b. Corrective Maintenance.
2. Draft an anticipated maintenance funding request based on the unit's TEEP to support.
  - a. Personnel travel requirements.
  - b. Administrative support requirements (SERVMART).
3. Submit funding request with justification.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4400.150\_
2. MCO P7100.8\_

MMGT-2619 6.0 \* B L

Goal. State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).

Requirement. Given a scenario and applicable references:

1. Pull TO&E via the Total Force Structure Management System (TFSMS).
2. Validate the requirement for change.
3. Complete TOECR form, NAVMC 11355.
4. Identify compensation for T/O changes when possible.
5. Provide an explanation/reason for change request on the change request form in plain English.
6. Provide a copy of the NAVMC 11355 to the instructor for review and validation.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable. Instructor will ensure the NAVMC 11355 supports the scenario requirement.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 5311.1\_
2. Unit TO&E

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MMGT-2620    6.0    \*    B    L

Goal. Conduct a Consolidated Memorandum Receipt (CMR) Review.

Requirement. Given the references and a maintenance section's CMR, ensure equipment accountability and requirements by performing the following:

1. State the purpose of a CMR.
2. Review TE.
3. Conduct a CMR inventory.
  - a. Ensure SL-3 accountability for assumption and relief.
  - b. Determine Using Unit Responsibility (UURI)/Government Furnished Equipment (GFE) requirements.
  - c. Ensure equipment have record jackets.
  - d. Maintain equipment receipt/transfer documents.
  - e. Identify discrepancies, if any.
4. Write and submit a Request for Investigation IAW MCO 4400.150.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4400.150E W/ERRATUM CH 1-2

2. CMR
3. MMO SOP

MMGT-2621 4.0 \* B L

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Goal. Draft a Using Unit Responsibility Items (UURI) authorization letter.

Requirement. Given the reference, complete the following:

1. Identify required UURI.
2. Draft a UURI authorization letter.

Performance Standard. Submit to the evaluator the correctly formatted UURI authorization letter that identifies required quantities of all UURI IAW the reference without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. Applicable end item SL-3
3. SecNavInst 5216.2\_
4. MCO P4400.150\_
5. Unit MMSOP

MMGT-2622 4.0 \* B L

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Goal. Explain Recoverable Items Report (WIR) procedures.

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

1. State the purpose of the WIR.
2. State the criteria under which an item should be processed for WIR.
3. State the information required to submit a WIR request.
4. State the submission procedures for a WIR request.
5. State the method to follow up on WIR submissions.
  - a. WIR on-line Process Handler.
  - b. Weekly Supply reconciliation.
6. Explain disposition instruction.

Performance Standard. Correctly state the items in the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. UM-4400
3. MCOP4400.82F

MMGT-2623 4.0 \* B L

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Goal. Submit a maintenance cycle time extension letter.

Requirement. Given the reference, equipment, and applicable equipment records conduct the following:

1. Identify maintenance cycle time requirement.
2. Draft a maintenance cycle time extension letter.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. The instructor shall ensure the justification meets the requirements.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. Applicable end item technical manual
3. NAVMC 5216.2\_
4. Unit MMSOP

MMGT-2624 4.0 \* B L

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

Requirement. Given the reference, equipment or a scenario:

1. State the criteria under which the PQDR should be submitted.
2. Complete the PQDR.

3. Explain the squadron's internal process for submitting a PQDR.
4. Identify the procedure to follow up with the PQDR.
5. Discuss external process flow of the PQDR.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. UM-4400-124
3. Unit MMSOP
4. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
5. SECNAVINST 4855.5\_, Product Quality Deficiency Report Program)
6. <http://www.logcom.usmc.mil/pqdr/files/PQDR%20Users%20Guide.pdf>
7. [https://www.pdrep.csd.disa.mil/pdrep\\_files/training/online\\_train.htm](https://www.pdrep.csd.disa.mil/pdrep_files/training/online_train.htm)

MMGT-2650 4.0 1095 B, R, M L

Goal. Assess maintenance shop performance.

Requirement. Given the references, perform the following:

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

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. CGI checklist
3. FSMAO inspection checklist
4. MMO SOP

### 3.10.10 OPERATIONAL MANAGEMENT (OMGT) STAGE

3.10.10.1 Purpose. To provide the trainee basic skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

#### 3.10.10.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

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OMGT-2695    6.0    \*    B    L

Goal. Design a site layout.

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

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

6. Submit the site layout to the instructor for validation.

Performance Standard. The trainee will provide the instructor with reasoning for the following (instructors are encouraged to discuss site survey in depth with the trainee)

1. Selection of the primary and secondary site.
2. Site limitations for each site (if any).
3. How each site will support mission requirements?
4. Determine a security plan.
5. Draw the site layout to support the scenario.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCDP 6
2. MCWP 3-25.3
3. MCWP 3-25.4
4. MCWP 3-25.5
5. MCWP 3-25.6
6. MCWP 3-25.7
7. MCWP 3-25.8
8. MCWP 3-25.10
9. MCWP 5-1
10. IEEE C95.1-1991
11. NAVSHIPS 0967-317-7010
12. TM 9406-15
13. DODINST 6055.11
14. BUMED 6470.23
15. OPNAVINST 5100.23 Series
16. NAVSEA OP 3565/NAVAIR 16-1-529/NAVELEX 0967-LP-624-6010/Volume II
17. Navy Safety Center
18. MCO 5100.29\_
19. MCO 5104.2\_
20. MCO 5104.3\_

OMGT-2696 6.0 \* B L

Goal. Prepare and present a command level brief for deployment.

Requirement. Given an OPORD and commander's intent, perform the following:

1. Prepare a brief that contains at minimum the following:
  - a. State the OPORD mission.
  - b. Maintenance essential tasks extracted from the OPORD.
  - d. List equipment requirements to support mission.

- e. Define crew composition and management based on T&R CMMR.
  - i. Emplacement.
  - k. Redeployment plan.
  - l. State maintenance sustainment plan.
  - m. State supply support required.
  - n. State logistical support required.
  - o. Issues of concern.
2. Present the brief.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. The instructor will ensure the brief contains the requirement items and that the overall planning supports the mission in the OPORD.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. OPORD
2. Local Unit SOP
3. Local MMO SOP

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OMGT-2697    6.0    \*    B    L

Goal. Identify Operational Requirements.

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

1. Communication electronics equipment required.
  - a. Radio requirements.
  - b. Network requirements.
  - c. Radar requirements.
2. Engineering equipment.
  - a. Air conditioners.
  - b. Heavy equipment.
  - c. Generators.
3. Personnel required.
  - a. Identify minimum number of mission skilled maintainers per crew required to support the mission.
  - b. Identify minimum number of designated leaders required to support the mission.
  - c. List the administrative requirements for crew.
    - (1) Tactical license.
    - (2) Security Clearance.
4. Cryptographic equipment required.
5. Logistics support required.

6. Supply support required.
  - a. Bill of Material (BOM) requirements.
  - b. SECREP requirements.
7. Frequencies required.
  - a. Draft a frequency request. (TPS-63, TPS-59, IFF, Mode-4).
  - b. Draft a satellite access request.
8. Develop an Equipment Density List (EDL) for PEIs.
9. Draw a site layout plan.
10. Draft a brief covering addressing the deployment and emplacement plan to support the mission.
11. Submit the site layout and brief the plan.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Planning MCWP 5-1
2. MOS Manual
3. TM 2000
4. MCWP 3-40.3
5. CJCSM 6231
6. JT PUB Series 6-05
7. Chapter 1 of this Manual

OMGT-2698 4.0 \* B L

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Goal. Provide input for the operational plan.

Requirement. Given an operation and command guidance, provide input for the operations order:

1. Verify mission requirements.
2. Determine mission essential equipment.
3. Provide input for the mission Equipment Density List.
4. Assign maintenance personnel to meet mission requirements.
5. Provide input for mission execution.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable. The instructor shall ensure that the communications portion of operation plan supports the mission.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Operations Order

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OMGT-2699 4.0 \* B L

Goal. Organize and staff crew for deployment.

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

1. Integrate crew personnel.
  - a. Ensure minimum number of core skilled maintainers are assigned per this manual.
  - b. Ensure minimum number of designated leaders are assigned per this manual.
2. Administrate crew.
  - a. Tactical license.
  - b. Supply.
  - c. Orders.
  - d. Security Clearance.
  - e. Pay.
  - f. Courier Letter.
3. Conduct crew brief.

Performance Standard. Given a scenario, identify the requirements to establish a core capable crew, without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCWP 3-25.5

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OMGT-2700 4.0 \* B L

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

Requirement. Given TEEP documents and references, perform the

following:

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

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4400.150E W/ERRATUM CH 1-2

OMGT-2701 4.0 \* B L

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Goal. Ensure safety procedures and precautions are followed during embarkation, set-up, and maintenance production.

Requirement. Given references, ensure that all personnel are informed of and following all safety procedures and precautions during all phases of operation and maintenance by performing the following:

1. Prepare deliberate ORM for the given scenario.
2. Ensure all safety procedures/precautions are followed during embarkation.
  - a. Packing.
  - b. Loading.
3. Ensure all safety procedures/precautions are followed during employment.
  - a. Set-up.
  - b. Operations.
4. Ensure all safety procedures/precautions are followed during maintenance.
  - a. Personnel safety.
  - b. Equipment safety.

Performance Standard. Given a scenario and core competent crew, prepare ORM worksheets and verify safety procedures are followed. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are

acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP
2. Applicable technical manuals
3. NAVMC DIR 5100.8

### 3.11 MISSION SKILL TRAINING (3000)

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

3.11.2 General.

3.11.2.1 Prerequisite.

3.11.2.2 Admin Notes.

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

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

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

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

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

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

PAR NO.	STAGE NAME
3.11.3	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
3.11.4	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
3.11.5	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
3.11.6	EQUIPMENT (EQUIP)
3.11.7	MAINTENANCE MANAGEMENT (MMGT)
3.11.8	OPERATIONAL MANAGEMENT (OMGT)

3.11.3 INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT) STAGE

3.11.3.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

3.11.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFAT-3280 4.0 1095 B, M E L

Goal. Explain concepts included in A+ exam 220-801.

Requirement. Without the aid of references, explain:

1. PC Hardware.
2. Networking.
3. Laptop.
4. Printers.
5. Operational Procedures.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-3281 4.0 1095 B, M E L

Goal. Explain concepts included in A+ exam 220-802.

Requirement. Without the aid of references, explain:

1. Operating Systems.
2. Security.
3. Mobile Devices.
4. Troubleshooting.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2255, 2256, 2257, 2258

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

### 3.11.4 INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT) STAGE

3.11.4.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

#### 3.11.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-3282 4.0 1095 B, R, M E L

Goal. Explain concepts included in Network+ exam N10-005.

Requirement. Without the aid of references, explain:

1. Networking Concepts.
2. Network Installation and Configuration.
3. Network Media and Topologies.
4. Network Management.
5. Network Security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

### 3.11.5 INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST) STAGE

3.11.5.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

#### 3.11.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-3283 4.0 1095 B, R, M E L

Goal. Explain concepts included in Security + exam SY0-301.

Requirement. Without the aid of reference, explain:

1. Network Security.
2. Operational Security.
3. Threats and vulnerabilities.
4. Cryptography.
5. Access control and identity management.
6. Application, data and host security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

### 3.11.6 EQUIPMENT (EQUIP) STAGE

3.11.6.1 Purpose. To instruct the trainee on MACCS unique electronic equipment.

#### 3.11.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQUIP-3450 2.0 365 B, R, M \_\_\_\_\_ L

Goal. Verify operational configuration of the MRR.

Requirement. Given the reference and an operational MRR, a core capable crew, operational documents, verify that the following supports the operations order:

- Radar Frequency.
- IFF settings.
- Weather Sectors.
- Blanking Sectors.
- Radar Control.
- Scan Rate.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM-07736C-14/?

EQUIP-3451 2.0 365 B, R, M \_\_\_\_\_ L

Goal. Verify operational configuration of the LRR.

Requirement. Given the reference and an operational LRR, a core capable crew, operational documents, verify that the following supports the operations order:

- Radar Frequency.
- Physical Data.
- Atmospheric Data.
- External Alignment.
- IFF settings.
- SET Function Status.
- Mission.
- Weather Sectors.
- Blanking Sectors.
- Radar Control.
- Scan Rate.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07751C-OR

#### 4.11.8 OPERATIONAL MANAGEMENT (OMGT) STAGE

4.11.8.1 Purpose. To provide the trainee advanced skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

#### 4.11.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

OMGT-3716 6.0 \* B L

Goal. Deploy a maintenance section in support of unit operations.

Requirement. Given a scenario or operational deployment and commander's guidance, deploy the maintenance section:

1. Review and recommend changes to the operational plan.
2. Coordinate equipment support as required.
3. Review and recommend changes to the Bill of Materials.
4. Review and recommend SECREP requirements as required.
5. Supervise pack-up of equipment.
6. Ensure correct execution of the load plan for equipment handling and safety.
7. Review and approve EDL.
8. Determine maintenance requirements.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 3120.6\_

OMGT-3717 20.0 730 B, R, M L

Goal. Deploy radar capability ISO operations order.

Requirement. Given the reference, core capable crew(s), operational documents, radar(s), complete the following:

1. Verify radar(s) site emplacement.
2. Verify radar(s) configuration.
3. Verify crew(s) are established.
4. Verify classified materials are managed.
5. Verify physical security.
6. Verify logistics support.

Performance Standard. With the aid of reference, 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. To meet the requirement the radar(s) must be moved.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. TAOC 7200 SAD input

Reference.

1. MCRP 5.11.1A
2. MCWP 3-40.3
3. MCWP 3.25
4. MCWP 3-25.7
5. TM-07736C
6. TM-07751C-OR

3.12 CORE PLUS TRAINING (4000)

3.12.1 Purpose. To train the trainee on core plus concepts.

3.12.2 General.

3.12.2.1 Prerequisiste. None

3.12.2.2 Admin Notes. None

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

PAR NO.	STAGE NAME
3.12.3	EQUIPMENT (EQUIP)

3.12.3 EQUIPMENT (EQUIP) STAGE

3.12.3.1 Purpose. To instruct the trainee on MACCS unique electronic equipment.

3.12.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQUIP-4452 2.0 \* B L

Goal. Review system troubleshooting on the TDS equipment within the TAOC.

Requirement. Given the references, a mission capable crew, appropriate tools, TMDE, and a command and control system; complete the follow for each systems below:

1. Monitor the operational checks and alignments of each system as required.
2. Identify and review symptoms of a fault within each system.
3. Review the fault to the line replaceable unit within each system.

-MTAOM  
-CTN  
-CAC2S

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10498B-OD TAOM Operations Maintenance Manual
2. Applicable manufacturer's manuals (UPS, Ethernet Switch, Themis)
3. TM 10446B-OI SAAWF Operations and Maintenance Instructions
4. TM 10200A-OI/1 ADCP Maintenance Manual
5. TO 31S5-2TYQ123-8-1 JRE Operations and Maintenance Instructions

EQUIP-4453 2.0 \* B \_\_\_\_\_ L

Goal. Verify system configuration and operation of tactical data systems within the TAOC.

Requirement. Given the references, an emplaced system, and a mission capable crew, verify equipment configuration and direct operational assessment within the system to include the following:

1. Operations of the TAOM, MTAOM.
  - a. Voice Communications Equipment.
  - b. Digital Communications Equipment.
  - c. Data Processing Equipment.
  - d. Operator Interface Equipment.
2. Operation of the ADCP.
  - a. Link 16.
  - b. JRE.
3. Operation of the CS.
4. Operations of the PDS.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10498B-OD TAOM Operations Maintenance Manual
2. Applicable manufacturer's manuals (UPS, Ethernet Switch, Themis)
3. TM 10446B-OI SAAWF Operations and Maintenance Instructions
4. TM 10200A-OI/1 ADCP Maintenance Manual
5. TM 11399A-OI/1 JRE Operations and Maintenance Instructions

### 3.13 INSTRUCTOR UNDER TRAINING (IUT) (5000)

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

3.13.2 General.

3.13.2.1 Prerequisite. None

3.13.2.2 Admin Notes.

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

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

(1) Basic Instructor (BI)

(2) Senior Instructor (SI)

(3) Weapons and Tactics Instructor (WTI)

(4) The MAWTS-1 C3 Course catalog contains the training requirements for the above listed instructors. The catalog is located at the MAWTS-1 website, <https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>.

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

INSTRUCTOR	Event Training, Evaluation and Approval
BI	Core Skill events in which current and proficient
SI	Core Skill and Mission Skill events
WTI	Mission Skill and Qualification events.

	- Evaluate and recommend for qualification - Endorse recommendations for position designations
	The Commanding Officer is the approving authority for qualifications and designations.

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

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

### 3.13.3 INSTRUCTOR UNDER TRAINING (IUT) STAGE

3.13.3.1 Purpose. To train Aviation Radar Maintenance Officers in the fundamentals of instructing and training processes.

#### 3.13.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

T&R CODE	EVENT DESCRIPTION	INSTRUCTOR
5000	Introduce principles of instruction	BI
5010	Understand the structure of an event	BI
5020	Conduct a period of instruction on a core skill event	BI
5100	Understand the Aviation Training and Readiness (T&R) Program	SI
5110	Understand the applicable community T&R program	SI
5120	Understand T&R administration	SI
5130	Develop a training plan	SI

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

3.14.1 Purpose. This phase provides community standardization for MACCS Warrant Officer certifications and designations; combat leaders and instructor designations. This syllabus does not contain "one time" certification training requirements.

#### 3.14.2 General.

3.14.2.1 Prerequisite. None

3.14.2.2 Admin Notes.

(1) This section enables units to document and track combat leaders, instructors, technician and CD assignments. All syllabus training and

administration requirements must be complete prior to being qualified or designated. A qualification or designation is not effective until all administration is completed.

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

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

PAR NO.	STAGE NAME
3.14.3	CERTIFICATIONS (CERT)
3.14.4	DESIGNATION (DESG)
3.14.5	SCHOOL CODES (SCHL)

3.14.3 CERTIFICATIONS (CERT) STAGE

3.14.3.1 Purpose. To provide for certifications of Information Assurance Work Force personnel. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a certification are current prior to approving that certification. If prerequisite R-coded events are delinquent, the individual shall update those events.

3.14.3.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining certification are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. NONE.

CERT-6200 4.0 \* B L

Goal. Certification as a COMPTIA A+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA 220-801 and COMPTIA 220-802. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. DOD 8570.\_

CERT-6201 4.0 \* B L

Goal. Certification as a COMPTIA Network+ Technician.

Requirement. Complete the required industry certification exam, COMPTIA N10-005. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263, 3282

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. DOD 8570.\_

CERT-6202 4.0 \* B L

Goal. Certification as a COMPTIA Security+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA SY0-301. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269, 3283

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. DOD 8570.\_

### 3.14.4 DESIGNATIONS (DESG) STAGE

3.14.4.1 Purpose. To provide for designation of combat leaders and

instructors. Designations are command specific and expire when an individual transfers out of a command. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a designation are current prior to approving that designation. If prerequisite R-coded events are delinquent, the individual shall update those events.

3.14.4.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining designations are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. None

DESG-6300 1.0 \* \_\_\_\_\_ L

Goal. Designation as the ARMO.

Requirement. Be recommended for designation by the unit WTI and designated in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2210, 2211, 2212, 2213, 2214, 2217, 2218, 2222, 2223, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3450, 3451, 3716, 3717, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit TO/E

DESG-6320 1.0 \* B \_\_\_\_\_ L

Goal. Designation as a Basic Instructor (BI).

Requirement. Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 5000, 5010, 5020

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14\_

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DESG-6321 1.0 \* B L

Goal. Designation as a Senior Instructor (SI).

Requirement. Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 5000, 5010, 5020, 5100, 5110, 5120, 5130

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14\_

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DESG-6322 0.5 \* B

Goal. Designation as Weapons and Tactics Instructor (WTI).

Requirement. Be certified by MAWTS-1 as a WTI and be recommended for designation by the squadron WTI. The commanding officer will designate the WTI in writing.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2210, 2211, 2212, 2213, 2214, 2217, 2218, 2222, 2223, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3450, 3451, 3716, 3717, 6000, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14\_

### 3.14.5 SCHOOL CODES (SCHL) STAGE

3.14.5.1 Purpose. To provide tracking codes for schools that are pertinent to the training of the 5910 in the skill progression of the Marine.

#### 3.14.5.2 General

Prerequisite. None

Admin Notes. Policies and prerequisites for attending the listed schools are maintained within MCTIMS.

Crew Requirements. None

SCHL CODE	NAME OF COURSE	LOCATION	CID
SCHL-6000	Weapons and Tactics Instructor (WTI)	MCAS Yuma, AZ	M14P2A1
SCHL-6020	Link 16 Basics Course (JT-100)	Joint Knowledge Online (JKO)	
SCHL-6021	Intro to Multi TDL Network (JT-101)	Fort Bragg, NC	N/A
SCHL-6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	Fort Bragg, NC	A36L6Z1
SCHL-6023	Link 16 Joint Interoperability Course (US-109)	Joint Knowledge Online (JKO)	N/A
SCHL-6024	Multi TDL Planner Course (JT-201)	Fort Bragg, NC	A05KHY1
SCHL-6025	Link 16 Unit Manager (LUM) Course (JT-220)	Fort Bragg, NC	N/A

### 3.15 MISSION ESSENTIAL TASK (MET) PHASE (7000)

3.15.1 Purpose. This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

#### 3.15.2 General

3.15.2.1 Prerequisite. Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase. For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

3.15.2.2 Admin Notes. Prerequisites for this phase of training cannot be waived. Multiple events can be trained at the same time as long as separate evaluations are being conducted.

3.15.2.3 Stages. The following stages are included in the Mission Essential Task (MET) Phase of training.

PAR NO.	STAGE NAME
3.15.3	CONDITION (COND)

3.15.3 CONDITION (COND) STAGE

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

3.15.3.2 General

Prerequisite. If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Admin Notes. All events in this stage will require the following administrative/operational documents to be identified or created:

1. Letter Of Intent (LOI)
2. Personnel Roster
3. Bill Of Material (BOM)
4. Equipment Density List (EDL)

Crew Requirements. This stage requires that all crew members and combat leaders be qualified/designated and proficient (current) in the position they are assigned for the following events. Crews shall be task organized to meet the mission.

COND-7500 50.0 365 B, R, M C2 System L/S

Goal. Employ a TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ a TAOC to include the following:

1. Conduct Mission Analysis
2. Review Operational Planning Documents
3. Identify required support personnel
4. Identify equipment requirements
5. Conduct an RSOP
6. Identify, create, and finalize administrative documents supporting the operation
7. Coordinate with external agencies
8. Conduct embarkation, and retrograde of personnel and equipment
9. Maintain accountability of personnel
10. Conduct TAOC operations
11. Conduct crew evaluations
12. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct TAOC operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. Minimum of two CMMR TAOC Crews

Ordnance. None.

Range. Range space capable of hosting itinerant air traffic, combat air patrols, air-to-air refueling tracks, HVAA tracks

External Syllabus Support. TAOC Detachment Commander and representatives from the S-1, S-2, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets.

Reference.

1. U-TAOC-PCL-03862, TAOC Pocket Checklist
2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

COND-7505 10.0 365 B, R, M L/S

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Goal. Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operation plan's initiating order, conduct a RSOP for TAOC operations to include the following:

1. Conduct a Map Survey selecting primary and alternate sites
2. Identify environmental concerns that may affect TAOC communication
3. Coordinate with higher to provide TAOC requirements
4. Coordinate site security, camouflage, dispersion, and trafficability
5. Identify locations for emplacement of communications and support equipment
6. Coordinate priorities for equipment emplacement
7. Identify echelon considerations
8. Identify Advanced Party/RSOP Team
9. Occupy the site
10. Emplace the TAOC

Performance Standard. Perform the requirement items. The RSOP team will be prepared to discuss decisions/actions.

Instructor. C3 WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. TAOC Detachment Commander, TAOC Crew Chief, security team, Representatives from the S-2, S-4, S-6

Reference.

1. U-TAOC-PCL-03862 TAOC Pocket Checklist

2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

3.16 AVIATION CAREER PROGRESSION MODEL (8000).

3.16.1 Purpose. To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

Marine Air Command and Control System (MACCS)  
Aviation Ground Support  
Joint Air Operations  
ACE Battle Staff  
MAGTF  
Seabased Operations  
Combatant Commander Organizations

3.16.2 General. The ACPM is intended to be an integrated series of academic events contained within each phase of training. Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction. In the future, courses may be consolidated or revised to meet changing requirements. Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:

<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/Aviation%20Career%20Progression%20Model/Forms/AllItems.aspx>

Completed events shall be manually logged and tracked in M-SHARP.

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

STAGE	TRNG CODE	T&R DESCRIPTION		ACAD TIME	TO BE COMPLETED DURING
ACPM	8000	<b>MACCS</b>		1	2000 PHASE
ACPM	8001	MARINE AIR COMMAND AND CONTROL SYSTEM		4	2000 PHASE
ACPM	8002	TACTICAL AIR COMMAND CENTER (TACC)		4	2000 PHASE
ACPM	8003	DIRECT AIR SUPPORT CENTER (DASC)		4	2000 PHASE
ACPM	8004	TACTICAL AIR OPERATIONS CENTER (TAOC)		4	2000 PHASE
ACPM	8005	MARINE AIR TRAFFIC CONTROL (MATC)		4	2000 PHASE
ACPM	8006	LOW ALTITUDE AIR DEFENSE (LAAD)		4	2000 PHASE
ACPM	8007	Marine Unmanned Aerial Vehicle Squadron (VMU)		4	2000 PHASE
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)		4	2000 PHASE
ACPM	8020	<b>ACE</b>		1	2000 PHASE
ACPM	8021	AVIATION OPERATIONS		4	2000 PHASE
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES		4	2000 PHASE

ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)		4	2000 PHASE
ACPM	8024	ASSAULT SUPPORT		4	2000 PHASE
ACPM	8025	AIR RECONNAISSANCE		4	2000 PHASE
ACPM	8026	ELECTRONIC WARFARE		4	2000 PHASE
ACPM	8027	ANTI-AIR WARFARE		4	2000 PHASE
ACPM	8028	AVIATION GROUND SUPPORT		4	2000 PHASE
ACPM	8040	<b>THREAT</b>		1	3000 PHASE
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8060	<b>MAGTF</b>		1	4000 PHASE
ACPM	8061	GROUND COMBAT OPERATIONS		4	4000 PHASE
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	4000 PHASE
ACPM	8063	MAGTF COMMAND AND CONTROL		4	4000 PHASE
ACPM	8064	MAGTF COMMUNICATIONS		4	4000 PHASE
ACPM	8065	PHASING CONTROL ASHORE		4	4000 PHASE
ACPM	8066	INFORMATION MANAGEMENT		4	4000 PHASE
ACPM	8067	UAS SUPPORT OF THE MAGTRF		4	4000 PHASE
ACPM	8080	<b>JOINT AIR OPERATIONS</b>		1	4000 PHASE
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	4000 PHASE
ACPM	8082	THEATER AIR CROUND SYSTEM (TAGS)		4	4000 PHASE
ACPM	8083	JOINT FIRE SUPPORT		4	4000 PHASE
ACPM	8084	CLOSE AIR SUPPORT		4	4000 PHASE
ACPM	8085	JOINT TARGETING		4	4000 PHASE
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	4000 PHASE
ACPM	8087	JOINT AIRSPACE CONTROL		4	4000 PHASE
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	4000 PHASE
TOTAL ACPM STAGE				40	145

3.17 T&R ATTAIN AND MAINTAIN TABLES

TAOC MAINTENANCE MOS 5910											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
CORE SKILL (2000 Phase)											
Describe proper handling and storage of classified materials.	COMSEC	2190	365	COMSEC	2190	COMSEC	2190	COMSEC	2190	-	-
State the physical security requirements for classified areas.	COMSEC	2191	365	COMSEC	2191	COMSEC	2191	COMSEC	2191	-	-
Create a classified area physical security diagram.	COMSEC	2192	365	COMSEC	2192	COMSEC	2192	COMSEC	2192	2191	-

TAOC MAINTENANCE MOS 5910											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Conduct classified material inventory.	COMSEC	2193	365	COMSEC	2193	COMSEC	2193	COMSEC	2193	2190	-
Extract key material information from EKMS COMSEC callout.	COMSEC	2194	*	COMSEC	2194	COMSEC	2194			2190	-
Utilize a Common Fill Device.	COMSEC	2195	365	COMSEC	2195	COMSEC	2195	COMSEC	2195	2190	-
Ensure CMCC handling procedures are followed.	COMSEC	2196	*	COMSEC	2196					2190	-
Ensure EKMS material handling procedures are followed.	COMSEC	2197	*	COMSEC	2197					2190	-
Ensure CCI material handling procedures are followed.	COMSEC	2198	*	COMSEC	2198					2190	-
Validate physical security of classified areas.	COMSEC	2200	*	COMSEC	2200					2191, 2192	-
Verify the proper use of a Common Fill Device.	COMSEC	2201	*	COMSEC	2201					2190, 2195	-
Identify organic Cryptographic Controlled Item (CCI) devices organic to the section.	COMSEC	2202	*	COMSEC	2202					2190, 2193	-
Identify equipment classification requirements.	COMSEC	2203	*	COMSEC	2203					2190	-
Describe HF, VHF, UHF, SATCOM radio characteristics.	FAM	2210	*	FAM	2210					-	-
State the purpose of Automated Data Processing Equipment (ADPE).	FAM	2211	*	FAM	2211					-	-
Describe the CAC2S.	FAM	2212	*	FAM	2212					-	-
Define Tactical Data Links characteristics.	FAM	2213	*	FAM	2213					-	-
Describe MTAOM equipment.	FAM	2214	*	FAM	2214					-	-
Describe T/E radios.	FAM	2217	*	FAM	2217					-	-
Describe C2 Applications.	FAM	2218	*	FAM	2218					-	-
Describe TACLAN.	FAM	2222	*	FAM	2222					-	-
Identify the major components of the Composite Tracking Network (CTN).	FAM	2223	*	FAM	2223					-	-
Explain PC hardware.	IAWFAT	2250	*	IAWFAT	2250					-	-
Explain networking concepts.	IAWFAT	2251	*	IAWFAT	2251					-	-
Explain laptop features and characteristics.	IAWFAT	2252	*	IAWFAT	2252					-	-
Explain printer features and characteristics.	IAWFAT	2253	*	IAWFAT	2253					-	-
Explain operational procedures.	IAWFAT	2254	*	IAWFAT	2254					-	-
Explain operating systems.	IAWFAT	2255	*	IAWFAT	2255					-	-
Explain security.	IAWFAT	2256	*	IAWFAT	2256					-	-
Explain Mobile Devices.	IAWFAT	2257	*	IAWFAT	2257					-	-
Explain Troubleshooting.	IAWFAT	2258	*	IAWFAT	2258					-	-
Explain Networking Concepts.	IAWFNT	2259	*	IAWFNT	2259					-	-
Explain Network Installation and Configuration.	IAWFNT	2260	*	IAWFNT	2260					-	-
Explain Network Media and Topologies.	IAWFNT	2261	*	IAWFNT	2261					-	-
Explain Network Management.	IAWFNT	2262	*	IAWFNT	2262					-	-
Explain Network Security.	IAWFNT	2263	*	IAWFNT	2263					-	-
Explain Network Security.	IAWFST	2264	*	IAWFST	2264					-	-
Explain Operational Security.	IAWFST	2265	*	IAWFST	2265					-	-
Explain threats and vulnerabilities.	IAWFST	2266	*	IAWFST	2266					-	-
Explain cryptography.	IAWFST	2267	*	IAWFST	2267					-	-

TAOC MAINTENANCE MOS 5910											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Explain access control and identity management.	IWFST	2268	*	IWFST	2268					-	-
Explain application, data and host security.	IWFST	2269	*	IWFST	2269					-	-
Identify hazards specific to the LRR and MRR.	EQUIP	2428	*	EQUIP	2428					-	-
Review system troubleshooting on a MRR.	EQUIP	2429	*	EQUIP	2429					-	-
Verify the MRR system configuration.	EQUIP	2430	*	EQUIP	2430					-	-
Review system troubleshooting on a long range radar system.	EQUIP	2431	*	EQUIP	2431					-	-
Verify the LRR system configuration.	EQUIP	2432	*	EQUIP	2432					-	-
Verify the configuration of the Interrogator Set.	EQUIP	2433	*	EQUIP	2433					-	-
Plan for deployment of radars.	EQUIP	2434	*	EQUIP	2434					-	-
Prepare to deploy a long range radar system.	EQUIP	2435	*	EQUIP	2435					-	-
Identify the requirements for a Pre-extended Bin (PEB).	MMGT	2615	*	MMGT	2615					-	-
Ensure the corrective maintenance repair process is being conducted.	MMGT	2616	*	MMGT	2616					-	-
Identify Critical Low Density SECREP assets and required on-hand quantities.	MMGT	2617	*	MMGT	2617					-	-
Develop a maintenance section budget.	MMGT	2618	*	MMGT	2618					-	-
State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	MMGT	2619	*	MMGT	2619					-	-
Conduct a Consolidated Memorandum Receipt (CMR) Review.	MMGT	2620	*	MMGT	2620					-	-
Draft a Using Unit Responsibility Items (UURI) authorization letter.	MMGT	2621	*	MMGT	2621					-	-
Explain Recoverable Items Report (WIR) procedures.	MMGT	2622	*	MMGT	2622					-	-
Submit a maintenance cycle time extension letter.	MMGT	2623	*	MMGT	2623					-	-
Submit a Product Quality Deficiency Report (PQDR).	MMGT	2624	*	MMGT	2624					-	-
Assess maintenance shop performance.	MMGT	2650	1095	MMGT	2650	MMGT	2650	MMGT	2650	-	-
Design a site layout.	OMGT	2695	*	OMGT	2695					-	-
Prepare and present a command level brief for deployment.	OMGT	2696	*	OMGT	2696					-	-
Identify Operational Requirements.	OMGT	2697	*	OMGT	2697					-	-
Provide input for the operational plan.	OMGT	2698	*	OMGT	2698					-	-
Organize and staff crew for deployment.	OMGT	2699	*	OMGT	2699					-	-
Submit of a Bill of Material (BOM) request.	OMGT	2700	*	OMGT	2700					-	-
Ensure safety procedures and precautions are followed during	OMGT	2701	*	OMGT	2701					-	-

TAOC MAINTENANCE MOS 5910											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
embarkation, set-up, and maintenance production.											
MISSION SKILL (3000 Phase)											
T&R EVENT INFORMATION	BASIC POI					REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Explain concepts included in A+ exam 220-801.	IAWFAT	3280	1095	IAWFAT	3280	IAWFAT	3280	IAWFAT	3280	2250, 2251, 2252, 2253, 2254	-
Explain concepts included in A+ exam 220-802.	IAWFAT	3281	1095	IAWFAT	3281	IAWFAT	3281	IAWFAT	3281	2255, 2256, 2257, 2258	-
Explain concepts included in Network+ exam N10-005.	IAWFNT	3282	1095	IAWFNT	3282	IAWFNT	3282	IAWFNT	3282	2259, 2260, 2261, 2262, 2263	-
Explain concepts included in Security + exam SY0-301.	IAWFST	3283	1095	IAWFST	3283	IAWFST	3283	IAWFST	3283	2264, 2265, 2266, 2267, 2268, 2269	-
Verify operational configuration of the MRR.	EQUIP	3450	365	EQUIP	3450	EQUIP	3450	EQUIP	3450	-	-
Verify operational configuration of the LRR.	EQUIP	3451	365	EQUIP	3451	EQUIP	3451	EQUIP	3451	-	-
Ensure the corrective maintenance repair process is being conducted.	MMGT	3660	*	MMGT	3660					-	-
Validate SECREP assets.	MMGT	3661	1095	MMGT	3661	MMGT	3661	MMGT	3661	-	-
Assess maintenance funding requirements.	MMGT	3662	*	MMGT	3662					-	-
Deploy a maintenance section in support of unit operations.	OMGT	3716	*	OMGT	3716					-	-
Deploy radar capability ISO operations order.	OMGT	3717	730	OMGT	3717	OMGT	3717	OMGT	3717	-	-
CORE PLUS SKILL (4000 Phase)											
T&R EVENT INFORMATION	BASIC POI					REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Review system troubleshooting on the TDS equipment within the TAOC.	EQUIP	4452	*	EQUIP	4452					-	-
Verify system configuration and operation of tactical data systems within the TAOC.	EQUIP	4453	*	EQUIP	4453					-	-

3.18 T&R SYLLABUS MATRIX

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV/
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																			
AIR SCHOOLS (AIRS)																			
AIRS	1001	Draw a Communications Diagram for the agencies within the MACG.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1002	Conduct an inspection of maintenance functional areas.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1003	Identify the key elements of Operational Orders (OPORD).	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1004	Reconcile Marine Corps Integrated Maintenance Management System (MIMMS) Automated Information System (AIS) reports.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1005	Identify the services provided by Marine Wing Communications Squadron.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1006	Identify Information Assurance requirements for tactical employment of information systems.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1007	Identify TAOC and EW/C communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1008	Identify TACC Communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1009	Identify DASC communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1010	Analyze the TO/E.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1011	Identify spectrum management procedures.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-
AIRS	1012	Identify the embarkation requirements for the major end items of the TACC, DASC,	B	E	G	-	-	-	*		0		0		0.0	-	-	-	-

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
		TAOC, and EW/C.																	
AIRS	1013	Identify LAAD Communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1014	Identify MATC communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1015	Identify UAS Communications information exchange requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1016	Identify the Marine Corps Urgent Needs Process (MCUNP).	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1017	Validate induction of new equipment into service.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1018	Demonstrate the process to phase out obsolete equipment.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1019	Identify maintenance funding requirements.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1020	Identify the SECREP management process.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1021	Identify DOD Information Assurance Workforce structure.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1022	Access published information within TFSMS.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1023	Describe readiness ratings within DRRS-MC.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1024	Explain the product quality deficiency report (PQDR).	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1025	Identify major funding lines.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
AIRS	1026	State the duties of the responsible Officer.	B	E	G	-	-	-	*		0		0		0.0	-	-	-	
TOTAL AIR SCHOOLS (AIRS) STAGE										26	0.0	0	0.0	0	0.0				
CORE SKILL TRAINING (2000 PHASE EVENTS)																			
COMMUNICATION SECURITY (COMSEC)																			
COMSEC	2190	Describe proper handling and storage of classified materials.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	
COMSEC	2191	State the physical security	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
		requirements for classified areas.																	
COMSEC	2192	Create a classified area physical security diagram.	B,R,M	-	L	-	-	-	365		0		0		2.0	2191	-	-	-
COMSEC	2193	Conduct classified material inventory.	B,R,M	-	L	-	-	-	365		0		0		2.0	2190	-	-	-
COMSEC	2194	Extract key material information from EKMS COMSEC callout.	B, R	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2195	Utilize a Common Fill Device.	B,R,M	-	L	-	-	-	365		0		0		2.0	2190	-	-	-
COMSEC	2196	Ensure CMCC handling procedures are followed.	B	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2197	Ensure EKMS material handling procedures are followed.	B	-	L	-	-	-	*		0		0		2.0	2190	-	-	-
COMSEC	2198	Ensure CCI material handling procedures are followed.	B	-	L	-	-	-	*		0		0		1.0	2190	-	-	-
COMSEC	2200	Validate physical security of classified areas.	B	-	L	-	-	-	*		0		0		4.0	2191, 2192	-	-	-
COMSEC	2201	Verify the proper use of a Common Fill Device.	B	-	L	-	-	-	*		0		0		4.0	2190, 2195	-	-	-
COMSEC	2202	Identify organic Cryptographic Controlled Item (CCI) devices organic to the section.	B	-	L	-	-	-	*		0		0		4.0	2190, 2193	-	-	-
COMSEC	2203	Identify equipment classification requirements.	B	-	L	-	-	-	*		0		0		4.0	2190	-	-	-
TOTAL COMMUNICATION SECURITY (COMSEC) STAGE										0	0.0	0	0.0	13	33.0				
FAMILIARIZATION (FAM)																			
FAM	2210	Describe HF, VHF, UHF, SATCOM radio characteristics.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
FAM	2211	State the purpose of Automated Data Processing Equipment (ADPE).	B	-	L	-	-	-	*		0		0		3.0	-	-	-	-
FAM	2212	Describe the CAC2S.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
FAM	2213	Define Tactical Data Links characteristics.	B	-	L	-	-	-	*		0		0		3.0	-	-	-	-
FAM	2214	Describe MTAOM equipment.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2217	Describe T/E radios.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
FAM	2218	Describe C2 Applications.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
FAM	2222	Describe TACLAN.	B	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
FAM	2223	Identify the major components of the Composite Tracking Network (CTN).	B	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
TOTAL FAMILIARIZATION (FAM) STAGE										0	0.0	0	0.0	9	15.0				
INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE																			
IAWFAT	2250	Explain PC hardware.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2251	Explain networking concepts.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2252	Explain laptop features and characteristics.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2253	Explain printer features and characteristics.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2254	Explain operational procedures.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2255	Explain operating systems.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2256	Explain security.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2257	Explain Mobile Devices.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFAT	2258	Explain Troubleshooting.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE										0	0.0	0	0.0	9	36.0				
INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE																			
IAWFNT	2259	Explain Networking Concepts.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFNT	2260	Explain Network Installation and Configuration.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFNT	2261	Explain Network Media and Topologies.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFNT	2262	Explain Network Management.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFNT	2263	Explain Network Security.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0.0	0	0.0	5	20.0				
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE																			
IAWFST	2264	Explain Network Security.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFST	2265	Explain Operational Security.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFST	2266	Explain threats and vulnerabilities.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFST	2267	Explain cryptography.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFST	2268	Explain access control and identity management.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
IAWFST	2269	Explain application, data and host security.	B	E	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0.0	0	0.0	6	24.0				

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
<b>EQUIPMENT (EQUIP)</b>																			
EQUIP	2428	Identify hazards specific to the LRR and MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2429	Review system troubleshooting on a MRR.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2430	Verify the MRR system configuration.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2431	Review system troubleshooting on a long range radar system.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2432	Verify the LRR system configuration.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2433	Verify the configuration of the Interrogator Set.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2434	Plan for deployment of radars.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2435	Prepare to deploy a long range radar system.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
<b>TOTAL EQUIPMENT (EQUIP) STAGE</b>										0	0.0	0	0.0	8	20.0				
<b>MAINTENANCE MANAGEMENT (MMGT)</b>																			
MMGT	2615	Identify the requirements for a Pre-extended Bin (PEB).	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
MMGT	2616	Ensure the corrective maintenance repair process is being conducted.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
MMGT	2617	Identify Critical Low Density SECREP assets and required on-hand quantities.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
MMGT	2618	Develop a maintenance section budget.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
MMGT	2619	State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
MMGT	2620	Conduct a Consolidated Memorandum Receipt (CMR) Review.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
MMGT	2621	Draft a Using Unit Responsibility Items (UURI) authorization letter.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
MMGT	2622	Explain Recoverable Items Report (WIR) procedures.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MMGT	2623	Submit a maintenance cycle time extension letter.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MMGT	2624	Submit a Product Quality Deficiency Report (PQDR).	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
MMGT	2650	Assess maintenance shop performance.	B,R,M	-	L	-	-	-	1095		0		0		4.0	-	-	-	-
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										0	0.0	0	0.0	11	56.0				
OPERATIONAL MANAGEMENT (OMGT)																			
OMGT	2695	Design a site layout.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
OMGT	2696	Prepare and present a command level brief for deployment.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
OMGT	2697	Identify Operational Requirements.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	-
OMGT	2698	Provide input for the operational plan.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
OMGT	2699	Organize and staff crew for deployment.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
OMGT	2700	Submit of a Bill of Material (BOM) request.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
OMGT	2701	Ensure safety procedures and precautions are followed during embarkation, set-up, and maintenance production.	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE										0	0.0	0	0.0	7	34.0				
TOTAL CORE SKILL PHASE (2000 PHASE)										0.0	0.0	0.0	0.0	68.0	238.0				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																			
INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE																			
IAWFAT	3280	Explain concepts included in A+ exam 220-801.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2250, 2251, 2252, 2253, 2254	-	-	-
IAWFAT	3281	Explain concepts included in A+ exam 220-802.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2255, 2256, 2257, 2258	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE										0	0	0	0	2	8.0				
INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE																			
IAWFNT	3282	Explain concepts included in Network+ exam N10-005.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2259, 2260, 2261, 2262, 2263	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0	0	0	1	4.0				

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE																			
IAWFST	3283	Explain concepts included in Security + exam SY0-301.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2264, 2265, 2266, 2267, 2268, 2269	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0	0	0	1	4.0				
EQUIPMENT (EQUIP)																			
EQUIP	3450	Verify operational configuration of the MRR.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	
EQUIP	3451	Verify operational configuration of the LRR.	B,R,M	-	L	-	-	-	365		0		0		2.0	-	-	-	
TOTAL EQUIPMENT (EQUIP) STAGE										0	0	0	0	2	4.0				
MAINTENANCE MANAGEMENT (MMGT)																			
MMGT	3660	Ensure the corrective maintenance repair process is being conducted.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	
MMGT	3661	Validate SECREP assets.	B,R,M	-	L	-	-	-	1095		0		0		2.0	-	-	-	
MMGT	3662	Assess maintenance funding requirements.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										0	0	0	0	3	6.0				
OPERATIONAL MANAGEMENT (OMGT)																			
OMGT	3716	Deploy a maintenance section in support of unit operations.	B	-	L	-	-	-	*		0		0		6.0	-	-	-	
OMGT	3717	Deploy radar capability ISO operations order.	B,R,M	-	L	-	-	-	730		0		0		20.0	-	-	-	
TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE										0	0	0	0	2	26.0				
TOTAL MISSION SKILL PHASE (3000 PHASE)										0.0	0.0	0.0	0.0	11.0	52.0				
CORE PLUS SKILL TRAINING (4000 PHASE EVENTS)																			
EQUIPMENT (EQUIP)																			
EQUIP	4452	Review system troubleshooting on the TDS equipment within the TAOC.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	
EQUIP	4453	Verify system configuration and operation of tactical data systems within the TAOC.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	
TOTAL EQUIPMENT (EQUIP) STAGE										0	0	0	0	2	4.0				
TOTAL CORE PLUS SKILL PHASE (4000 PHASE)										0.0	0.0	0.0	0.0	2.0	4.0				
TOTAL 2000, 3000, AND 4000 PHASE										0.0	0.0	0.0	0.0	81.0	294.0				

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																			
INSTRUCTOR UNDER TRAINING (IUT)																			
BASIC INSTRUCTOR (BI)																			
IUT	5000	Introduce principles of instruction	B	-	G	-	-	D	*		0		0		2.0	Recommended by SI or WT1	-	-	-
IUT	5010	Understand the structure of an event	B	-	G	-	-	D	*		0		0		1.0	Recommended by SI or WT1	-	-	-
IUT	5020	Conduct a period of instruction on a T&R event	B	-	G	-	-	D	*		0		0		2.0	Recommended by SI or WT1	-	-	-
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										0	0	0	0	3	5.0				
SENIOR INSTRUCTOR (SI)																			
IUT	5100	Understand Aviation T&R program	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5110	Understand Applicable Community T&R	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5120	Understand T&R Administration	B	-	G	-	-	D	*		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
IUT	5130	Develop a training plan	B,R,M	-	G	-	-	D	365		0		0		2.0	5000, 5010, 5020, 6320	-	-	-
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										0	0	0	0	4	8.0				
TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT)										0	0	0	0	7	13.0				
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																			
CERTIFICATION (CERT)																			
CERT	6200	Certification as a COMPTIA A+ Technician.	B	-	L	-	-	L	*		0		0		4.0	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281	-	3280, 3281	-
CERT	6201	Certification as a COMPTIA Network+ Technician.	B	-	L	-	-	L	*		0		0		4.0	2259, 2260, 2261, 2262, 2263, 3282	-	3282	-
CERT	6202	Certification as a COMPTIA Security+ Technician.	B	-	L	-	-	L	*		0		0		4.0	2264, 2265, 2266, 2267, 2268, 2269, 3283	-	3283	-
TOTAL CERTIFICATION STAGE (CERT)										0	0	0	0	3	12.0				

TAOC MOS 5910 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
<b>DESIGNATIONS (DESG)</b>																			
DESG	6300	AVIATION RADAR MAINTENANCE OFFICER (ARMO) (DESG-6300)	B	-	L	-	-	L	*	0	0	0	0	1.0	2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2203, 2210, 2211, 2212, 2213, 2214, 2217, 2218, 2222, 2223, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2650, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 3450, 3451, 3716, 3717, 4452, 4453, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044	-	-	-	
DESG	6320	Designation as a Basic Instructor (BI).	B	-	L	-	-	L	*	0	0	0	0	1.0	5000, 5010, 5020	-	-	-	
DESG	6321	Designation as a Senior Instructor (SI).	B	-	L	-	-	L	*	0	0	0	0	1.0	5000, 5010, 5020, 5100, 5110, 5120, 5130	-	-	-	
DESG	6322	Designation as a Weapons and Tactics Instructor (WTI).	B	-	L	-	-	L	*	0	0	0	0	1.0	2230, 2235, 2236	-	-	-	
<b>TOTAL DESIGNATIONS STAGE (DESG)</b>										0	0	0	0	4	4.0				
<b>SCHOOL CODES (SCHL)</b>																			
SCHL	6000	Weapons and Tactics Instructor (WTI)	B	-	G	-	-	-	*	0	0	0	0	0.0	-	-	-	-	
SCHL	6020	Link 16 Basics Course (JT-100)	B	-	G	-	-	-	*	0	0	0	0	0.0	-	-	-	-	
SCHL	6021	Intro to Multi TDL Network (JT-101)	B	-	G	-	-	-	*	0	0	0	0	0.0	-	-	-	-	
SCHL	6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	B	-	G	-	-	-	*	0	0	0	0	0.0	-	-	-	-	
SCHL	6023	Link 16 Joint Interoperability Course (US-109)	B	-	G	-	-	-	*	0	0	0	0	0.0	-	-	-	-	
SCHL	6024	Multi TDL Planner Course (JT-201)	B	-	G	-	-	-	*	0	0	0	0	0.0	-	-	-	-	
SCHL	6025	Link 16 Unit Manager (LUM) Course (JT-220)	B	-	G	-	-	-	*	0	0	0	0	0.0	-	-	-	-	
<b>TOTAL SCHOOL CODES STAGE (SCHL)</b>										5	0	0	0	0	0.0				
<b>TOTAL REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS SKILLS PHASE (RCQD)</b>										5	0.0	0	0.0	7	16.0				

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3.19 ADDITIONAL MATRICES. None

3.20 ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS. None

3.21 AVIATION TRAINING FORMS (ATF). A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3 website,  
<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>

3.22 TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM). None

CHAPTER 4

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

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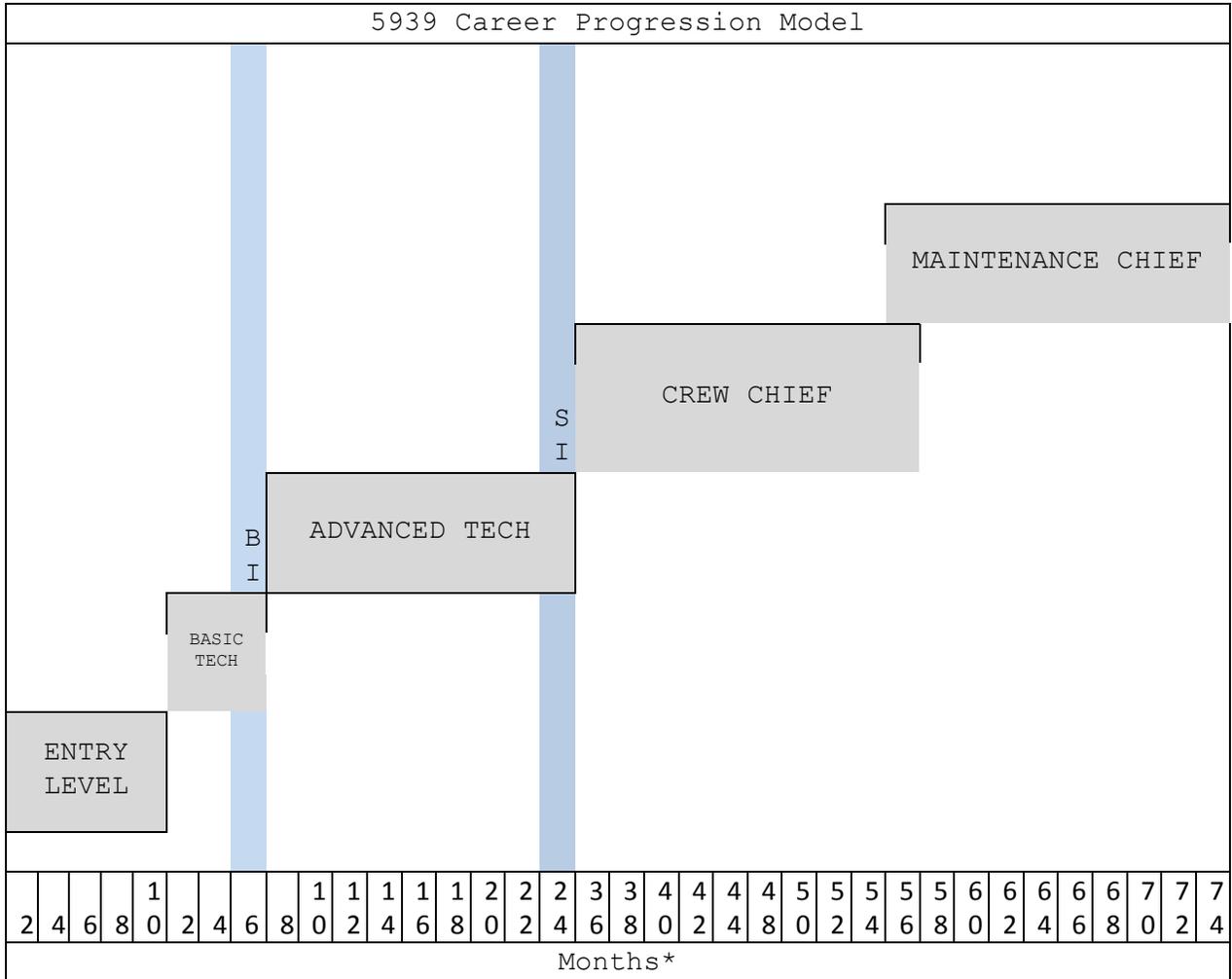
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CHAPTER 4

AVIATION COMMUNICATIONS SYSTEMS TECHNICIAN/5939  
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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

4.1 5939 TRAINING PROGRESSION MODEL. This model represents the recommended average training progression for the Aviation Communications Systems Technician crewmember. Units should use the model as a point of departure to generate individual training plans.



4.2 ABBREVIATIONS

<b>TAOC MAINTENANCE MOS 5939</b>	
<b>CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS</b>	
<b>CORE SKILL (2000 Phase)</b>	
CD	COLLATERAL DUTY
CMN	MACCS MAINTENANCE COMMON
COMSEC	COMMUNICATION SECURITY
EQUIP	EQUIPMENT
FAM	FAMILIARIZATION
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
MMGT	MAINTENANCE MANAGEMENT
OMGT	OPERATIONAL MANAGEMENT
TMDE	TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT
<b>MISSION SKILL (3000 Phase)</b>	
EWC	EARLY WARNING AND CONTROL SITE
EQUIP	EQUIPMENT
IAWFAT	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN
IAWFNT	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN
IAWFST	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN
MMGT	MAINTENANCE MANAGEMENT
MACG	MARINE AIR CONTROL GROUP
OMGT	OPERATIONAL MANAGEMENT
TAOC	TACTICAL AIR OPERATIONS CENTER
<b>CORE PLUS (4000 Phase)</b>	
EQUIP	EQUIPMENT
<b>INSTRUCTOR (5000 Phase)</b>	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
<b>CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)</b>	
ACSBT	AVIATION COMMUNICATIONS SYSTEM S BASIC TECHNICIAN
ACSAT	AVIATION COMMUNICATIONS SYSTEM ADVANCED TECHNICIAN
ACSCC	AVIATION COMMUNICATIONS SYSTEMS CREW CHIEF
ACSMC	AVIATION COMMUNICATIONS SYSTEMS MAINTENANCE CHIEF
CAT	COMPTIA A+ TECHNICIAN
CNT	COMPTIA NETWORK+ TECHNICIAN
CST	COMPTIA SAFETY+ TECHNICIAN
SAF CD	SAFETY COLLATERAL DUTY

HAZMAT CD	HAZARDOUS MATERIAL COLLATERAL DUTY
PUB CD	PUBLICATIONS COLLATERAL DUTY
TRNG CD	TRAINING COLLATERAL DUTY
TOOLS CD	TOOLS COLLATERAL DUTY
CAL CD	CALIBRATIONS COLLATERAL DUTY
MOD CD	MODIFICATIONS COLLATERAL DUTY
EMB CD	EMBARK COLLATERAL DUTY
MIMMS CD	MIMMS COLLATERAL DUTY
QC CD	QUALITY CONTROL COLLATERAL DUTY

#### 4.3 DEFINITIONS

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

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

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

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

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

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

**\*Note\***

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

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

**\*Note\***

See Chapter 2 for amplifying information on POI updating.

TAOC MAINTENANCE MOS 5939					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
CORE SKILL (2000 Phase)					
CMN	2150				
CMN	2151				
CMN	2152				
CMN	2153				
CMN	2154	CMN	2154		
CMN	2155				
CMN	2156				
CMN	2157				
CMN	2158				
CMN	2159	CMN	2159		
TMDE	2171	TMDE	2171		
TMDE	2172	TMDE	2172		
TMDE	2173	TMDE	2173		
TMDE	2175	TMDE	2175		
TMDE	2176	TMDE	2176		

TAOC MAINTENANCE MOS 5939					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
TMDE	2177	TMDE	2177		
TMDE	2178	TMDE	2178		
TMDE	2179	TMDE	2179		
COMSEC	2190	COMSEC	2190	COMSEC	2190
COMSEC	2191	COMSEC	2191	COMSEC	2191
COMSEC	2192	COMSEC	2192	COMSEC	2192
COMSEC	2193	COMSEC	2193	COMSEC	2193
COMSEC	2194	COMSEC	2194		
COMSEC	2195	COMSEC	2195	COMSEC	2195
COMSEC	2196				
COMSEC	2197				
COMSEC	2198				
COMSEC	2199	COMSEC	2199	COMSEC	2199
FAM	2211				
FAM	2213				
FAM	2214				
FAM	2215				
FAM	2216				
FAM	2218				
FAM	2219				
FAM	2220				
FAM	2221				
FAM	2222				
FAM	2223				
CD	2230	CD	2230		
CD	2231				
CD	2232				
CD	2233				
CD	2234				
CD	2235				
CD	2236				
CD	2237				
CD	2238				
CD	2239	CD	2239	CD	2239
CD	2243				

TAOC MAINTENANCE MOS 5939					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
IAWFAT	2250				
IAWFAT	2251				
IAWFAT	2252				
IAWFAT	2253				
IAWFAT	2254				
IAWFAT	2255				
IAWFAT	2256				
IAWFAT	2257				
IAWFAT	2258				
IAWFNT	2259				
IAWFNT	2260				
IAWFNT	2261				
IAWFNT	2262				
IAWFNT	2263				
IAWFST	2264				
IAWFST	2265				
IAWFST	2266				
IAWFST	2267				
IAWFST	2268				
IAWFST	2269				
EQUIP	2380				
EQUIP	2381				
EQUIP	2384				
EQUIP	2385				
EQUIP	2386				
EQUIP	2387				
EQUIP	2388				
EQUIP	2389				
EQUIP	2390	EQUIP	2390	EQUIP	2390
EQUIP	2391	EQUIP	2391	EQUIP	2391
EQUIP	2392	EQUIP	2392	EQUIP	2392
EQUIP	2393	EQUIP	2393	EQUIP	2393
EQUIP	2394	EQUIP	2394	EQUIP	2394
EQUIP	2395	EQUIP	2395	EQUIP	2395
EQUIP	2396	EQUIP	2396		
EQUIP	2397				

TAOC MAINTENANCE MOS 5939					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
EQUIP	2398				
EQUIP	2399				
EQUIP	2400				
EQUIP	2401				
EQUIP	2402				
EQUIP	2403	EQUIP	2403		
EQUIP	2404				
EQUIP	2405				
EQUIP	2406				
MMGT	2600				
MMGT	2601				
MMGT	2602	MMGT	2602		
MMGT	2603				
MMGT	2604				
MMGT	2605				
MMGT	2606				
MMGT	2607				
MMGT	2608	MMGT	2608		
MMGT	2609				
MMGT	2610				
MMGT	2611				
MMGT	2612				
MMGT	2613				
MMGT	2614				
OMGT	2680				
OMGT	2681	OMGT	2681	OMGT	2681
OMGT	2682	OMGT	2682	OMGT	2682
OMGT	2683				
OMGT	2684				
OMGT	2685				
OMGT	2686	OMGT	2686	OMGT	2686
OMGT	2687				
OMGT	2688	OMGT	2688	OMGT	2688
OMGT	2689				
OMGT	2690				
OMGT	2691				

TAOC MAINTENANCE MOS 5939					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
OMGT	2692				
OMGT	2694	OMGT	2694		
MISSION SKILL (3000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
TAOC	IWFAT-3280	TAOC	IWFAT-3280	TAOC	IWFAT-3280
	IWFAT-3281		IWFAT-3281		IWFAT-3281
	IWFNT-3282		IWFNT-3282		IWFNT-3282
	IWFST-3283		IWFST-3283		IWFST-3283
	EQUIP-3470		EQUIP-3470		EQUIP-3470
	EQUIP-3471		EQUIP-3471		EQUIP-3471
	MMGT-3660				
	MMGT-3661		MMGT-3661		MMGT-3661
	MMGT-3662				
	OMGT-3710		OMGT-3710		OMGT-3710
	OMGT-3711				
	OMGT-3712				
	OMGT-3713		OMGT-3713		OMGT-3713
	OMGT-3714				
	OMGT-3715				
	MACG-3750		MACG-3750		MACG-3750
	MACG-3751		MACG-3751		MACG-3751
	MACG-3752		MACG-3752		MACG-3752
	MACG-3753		MACG-3753		MACG-3753
	MACG-3754		MACG-3754		MACG-3754
MACG-3755	MACG-3755	MACG-3755			
MACG-3756	MACG-3756	MACG-3756			
EWC	IWFAT-3280	EWC	IWFAT-3280	EWC	IWFAT-3280
	IWFAT-3281		IWFAT-3281		IWFAT-3281
	IWFNT-3282		IWFNT-3282		IWFNT-3282
	IWFST-3283		IWFST-3283		IWFST-3283
	EQUIP-3470		EQUIP-3470		EQUIP-3470
	EQUIP-3471		EQUIP-3471		EQUIP-3471
	MMGT-3660				
	MMGT-3661		MMGT-3661		MMGT-3661
	MMGT-3662				
	OMGT-3710		OMGT-3710		OMGT-3710

TAOC MAINTENANCE MOS 5939					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
STAGE	CODE	STAGE	CODE	STAGE	CODE
	OMGT-3711				
	OMGT-3712				
	OMGT-3713		OMGT-3713		OMGT-3713
	OMGT-3714				
	OMGT-3715				
	MACG-3750		MACG-3750		MACG-3750
	MACG-3751		MACG-3751		MACG-3751
	MACG-3752		MACG-3752		MACG-3752
	MACG-3753		MACG-3753		MACG-3753
	MACG-3754		MACG-3754		MACG-3754
	MACG-3755		MACG-3755		MACG-3755
	MACG-3756		MACG-3756		MACG-3756
CORE PLUS (4000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
EQUIP	4111				
EQUIP	4114				
EQUIP	4426	EQUIP	4426	EQUIP	4426
EQUIP	4427	EQUIP	4427	EQUIP	4427
EQUIP	4466				
"S" PREFIX AND BLUE FONT = SIMULATOR EVENT					
"R" SUFFIX AND GREY HIGHLIGHT = R-CODED "REFRESHER" EVENT					

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

4.5.1 INSTRUCTOR DESIGNATIONS

<b>TAOC MAINTENANCE MOS 5939 INSTRUCTOR DESIGNATIONS (5000 Phase)</b>	
<b>INSTRUCTOR DESIGNATION</b>	<b>EVENTS</b>
BASIC INSTRUCTOR (BI)	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 5000, 5010, 5020, 6100
SENIOR INSTRUCTOR (SI)	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2216, 2218, 2219, 2220, 2221, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6101

4.5.2 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

<b>TAOC MAINTENANCE MOS 5939 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)</b>	
<b>RCQD</b>	<b>EVENTS</b>
AVIATION COMMUNICATION SYSTEM BASIC TECHNICIAN (ACSBT) (QUAL 6100)	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715
AVIATION COMMUNICATION SYSTEM ADVANCED TECHNICIAN (ACSA) (QUAL 6105)	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2216, 2218, 2219, 2220, 2221, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6100
COMPTIA A+ Technician (CAT) (CERT-6200)	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281
COMPTIA NETWORK+ Technician (CNT) (CERT-6201)	2259, 2260, 2261, 2262, 2263, 3282
COMPTIA SECURITY+ Technician (CST) (CERT-6202)	2264, 2265, 2266, 2267, 2268, 2269, 3283
Aviation Communication Systems Crew Chief (ACSCC) (DESG-6301)	2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2211, 2213, 2214, 2216, 2218, 2219, 2220, 2221, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2239, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3470, 3471, 3660, 3661, 3710, 3711, 3712, 3713, 3715, 6100, 6101

Aviation Communication Systems Maintenance Chief (ACSMC) (DESG- 6302)	2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2211, 2213, 2214, 2216, 2218, 2219, 2220, 2221, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2239, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 3470, 3471, 3660, 3662, 3710, 3711, 3712, 3713, 3714, 3715, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 6100, 6101
SAFETY COLLATERAL DUTY (SAF CD) (DESG 6340)	2230, 2235, 2236
HAZARDOUS MATERIAL COLLATERAL DUTY (HAZMAT CD) (DESG 6341)	2230, 2235, 2236
PUBLICATIONS COLLATERAL DUTY (PUB CD) (DESG 6342)	2230, 2234
TOOLS COLLATERAL DUTY (TOOLS CD) (DESG 6343)	2230, 2233
CALIBRATIONS COLLATERAL DUTY (CAL CD) (DESG 6344)	2230, 2231
MODIFICATIONS COLLATERAL DUTY (MOD CD) (DESG 6345)	2230, 2232, 2234
EMBARK COLLATERAL DUTY (EMB CD) (DESG 6346)	2230, 2237
MIMMS CD (DESG 6347)	2159, 2230, 2602
TRAINING COLLATERAL DUTY (TRNG CD) (DESG 6348)	2230
QUALITY CONTROL COLLATERAL DUTY (QC CD) (DESG 6349)	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2216, 2218, 2219, 2220, 2221, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6100, 6101

4.6 5939 PROGRAMS OF INSTRUCTION (POI). These tables reflect average time-to-train versus the minimum to maximum time-to-train parameters in the Training Progression Model.

4.6.1 Basic POI

TAOC MAINTENANCE 5939		
BASIC POI		
WEEKS <sup>1</sup>	PHASE OF INSTRUCTION	UNIT RESPONSIBLE
1-33	CORE SKILL INTRODUCTION TRAINING	MCCES
34-58	CORE SKILL TRAINING	TACTICAL SQUADRON
59-82	MISSION SKILL TRAINING	TACTICAL SQUADRON
83-88	CORE PLUS	TACTICAL SQUADRON

4.6.2 Refresher POI

TAOC MAINTENANCE MOS 5939		
REFRESHER POI		
WEEKS <sup>1</sup>	PHASE OF INSTRUCTION	UNIT RESPONSIBLE
VARIES	CORE SKILL TRAINING	TACTICAL SQUADRON
VARIES	MISSION SKILL TRAINING	TACTICAL SQUADRON
VARIES	CORE PLUS	TACTICAL SQUADRON

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

4.7 SYLLABUS NOTES

4.7.1 Environmental Conditions Matrix

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

4.7.2 Device Matrix

DEVICE	
Symbol	Meaning
L	Event shall be conducted live (conducted in the field/garrison, during an exercise, etc). Requires live (non-simulated) execution of the event.
L/S	Event performed live preferred/simulator optional.
S/L	Event performed in simulator preferred/live optional.
G	Ground/academic training. May include Distance Learning, CBT, lectures, self paced.
CBT	Computer Based Training
LAB	Laboratory
LEC	Lecture
CP	Command Post
TEN	Tactical Environment Network. Events designated as TEN require an approved tactical environment simulation capable of introducing both semi-autonomous threats and moving models controllable from the tactical operator station.
TEN+	Enhanced Tactical Environment Network. Events designated as TEN+ require an approved tactical environment simulation and at least one additional, networked, man-in-the-loop simulator to meet the training objectives. A moving model controlled from the operator station does not satisfy the man-in-the-loop requirement.
Note - If the event is to be flown in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	

4.7.3 Program of Instruction Matrix

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

4.7.4 Event Terms

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

4.8 ACADEMIC PHASE (0000)

4.8.1 Purpose. **RESERVED FOR FUTURE USE**

4.8.2 General

4.8.2.1 Admin Notes.

4.8.2.2 Prerequisites.

4.8.2.3 Stages.

4.9 CORE SKILL INTRODUCTION PHASE (1000)

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

4.9.2 General.

4.9.2.1 Prerequisite. Meet the requirement delineated in the MOS Manual (MCBul 1200).

4.9.2.2 Admin Notes. None

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

PAR NO.	STAGE NAME
4.9.3	AIR SCHOOLS (AIRS) STAGE

4.9.3 AIR SCHOOLS (AIRS) STAGE

4.9.3.1 Purpose. To provide entry-level instruction to develop the basic skills necessary to configure and setup communications equipment, conduct preventive maintenance and limited technical inspections on assigned equipment. This training phase is complete upon graduation from the Aviation Communication Systems Technician Course (ACSTC) when the Marine is designated MOS 5939, Aviation Communication Systems Technician (ACST).

4.9.3.2 General

Prerequisite. Graduate from the Basic Electronics Course (CID: M092721) and meet the 5939 requirements delineated in the MOS Manual.

Admin Notes. Hours are not utilized in the header information for each of the blocks of training provided by MCCES. Aviation Communication Systems Technician Course (CID: M09E2Z1), MCCES, located in 29 Palms, CA.

Crew Requirements. None.



Range. None.

External Syllabus Support. None.

Reference.

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

AIRS-1032                   \*           B   E   G

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

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

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

AIRS-1033                   \*           B   E   G

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

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

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

8. Integrate the CS with the PDS.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

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AIRS-1034                   \*           B   E   G

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Goal. Configure the CAC2S voice network.

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

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

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AIRS-1035                   \*           B   E   G

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Goal. Maintain the DSAN network.

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

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

AIRS-1036                    \*            B    E    G

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Goal. Configure the Distributed Scalable AccessNet (DSAN).

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

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

AIRS-1037                    \*            B    E    G

Goal. Configure AN/VRC-103.

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

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

AIRS-1038                    \*            B    E    G

Goal. Configure AN/VRC-104.

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



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

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

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

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

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AIRS-1041                    \*            B    E    G

Goal. Operate common fill devices.

Requirement. Given the references, communication security (COMSEC) material, and a fill device:

1. Describe the purpose of COMSEC.
2. Describe a cryptographic communication procedure.
3. Safeguard COMSEC material.
4. Describe characteristics of a fill device.
5. Initialize a fill device.
6. Fill cryptographic equipment.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1\_ CMS Policy and Procedures for Navy EKMS Tiers 2 & 3
2. OPNAVINST 5510.1\_ Department of the Navy Information and Personnel Security Program Regulation
3. Applicable fill device Technical Manual

AIRS-1042                   \*           B                                   E                                   G

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Goal. Describe the characteristics of antennas used within the Marine Air Command and Control Systems (MACCS).

Requirement. Given the references:

1. Describe antennas used for RF communications.
2. Describe the technical characteristics of antennas used for voice communications.
3. Describe the radio wave propagation characteristics of antennas used for RF communications.
4. Describe additional antennas used for RF communications in field environments.
5. Describe the radio wave propagation characteristics of additional antennas for RF communications in field environments.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 3-40.3B - Radio Operators Handbook
2. MCRP 3-40.3C - Antenna Handbook

#### 4.9.3 AVIATION MAINTENANCE (AIRM) STAGE

4.9.3.1 Purpose. To provide entry-level instruction to develop the common basic skills necessary for MACCS Maintenance Marines. This training phase is complete upon graduation from the Aviation Communication Systems Technician Course (ACSTC) when the Marine is designated MOS 5939, Aviation Communication Systems Technician (ACST).

#### 4.9.3.2 General

Prerequisite. Graduate from the Basic Electronics Course (CID: M092721) and meet the 5939 requirements delineated in the MOS Manual.

Admin Notes. Hours are not utilized in the header information for each of the blocks of training provided by MCCES. Aviation Communication Systems Technician Course (CID: M09E2Z1), MCCES, located in 29 Palms, CA.

Crew Requirements. None.

AIRM-1120                    \*            B    E    G

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Goal. Describe functions of the Marine Air Command and Control System (MACCS).

Requirement. Given the references:

1. Describe the purpose of a MACCS.
2. Describe the organization of a MACCS.
3. Describe the mission of the units comprising a MACCS.
4. Describe the function(s) of each agency comprising the MACCS.
5. Describe the six functions of Marine Aviation.

Performance Standard. Pass an exam.

Instructor. FLC instructor.

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Aviation Operations MCWP 3-2
2. Control of Aircraft and Missiles MCWP 3-25
3. Marine Air Command and Control System Handbook MCWP 3-25.3

#### 4.10 CORE SKILL TRAINING (2000)

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

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

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

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

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

will provide the maintenance chief the necessary skills to run a communications section.

4.10.2 General.

4.10.2.1 Prerequisite.

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

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

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

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

4.10.2.2 Admin Notes.

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

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

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

PAR NO.	STAGE NAME
4.10.3	MACCS MAINTENANCE COMMON (CMN)
4.10.4	TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE)
4.10.5	COMMUNICATION SECURITY (COMSEC)
4.10.6	FAMILIARIZATION (FAM)
4.10.7	COLLATERAL DUTY (CD)
4.10.8	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
4.10.9	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
4.10.10	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
4.10.11	EQUIPMENT (EQUIP)
4.10.12	MAINTENANCE MANAGEMENT (MMGT)
4.10.13	OPERATIONAL MANAGEMENT (OMGT)

4.10.3 MACCS MAINTENANCE COMMON (CMN) STAGE

4.10.3.1 Purpose. To teach the trainee common skills to all 5900 MOSS within the MACCS.

4.10.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

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CMN-2150    2.0    \*    B    L

Goal. Conduct an SL-3 inventory.

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

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

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO p4400.150\_
2. MCO P4790.2\_
3. Applicable equipment SL-3 or TM

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CMN-2151    1.5    \*    B    L

Goal. Identify the purpose of Preventive Maintenance Checks and Services (PMCS).

Requirement. Given an end item, completed NAVMC 10561, and applicable references, perform the following:

1. State the purpose of PMCS.
2. Identify the PM frequency.

3. Identify PM procedures.
4. Interpret the entries listed on the provided PMCS roster.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 4700-15/\_
2. NAVMC 10561
3. MCO P4790.2\_
4. Applicable technical manuals
5. UM 4400.125 (Draft)

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CMN-2152    2.0    \*    B    L

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

Requirement. Given the reference, equipment or a scenario:

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

Performance Standard. Submit to the evaluator a correctly formatted PQDR IAW the reference without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. Unit MMSOP
3. MCO 4855.10B PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
4. SECNAVINST 4855.5\_, Product Quality Deficiency Report Program
5. <http://www.logcom.usmc.mil/pqdr/files/PQDR%20Users%20Guide.pdf>.

6. [https://www.pdrep.csd.disa.mil/pdrep\\_files/training/online\\_train.htm](https://www.pdrep.csd.disa.mil/pdrep_files/training/online_train.htm)

CMN-2153 3.0 \* B Grnd Rod Kit/MK-2551A/U L

Goal. Demonstrate an earth ground installation.

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

1. Identify ground tolerances for equipment and personnel.
2. Identify methods of grounding.
3. Identify a method for improving a ground.
4. Identify proper location to test a ground.
5. Install an earth ground using a:
  - a. Grounding rod.
  - b. MK-2551A/U Grounding Kit (SWGS).
6. Verify proper grounding reading utilizing appropriate test equipment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2173

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 9406-15 Ground Procedures Manual
2. TC 11-6 Grounding Techniques

CMN-2154 2.0 \* B,R L

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

Requirement. Identify the following:

1. Frequency.
2. Voltage(s).
3. Load capacity.
4. Fuel consumption.

Performance Standard. With the aid of reference, pass an exam on the above list without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 12359A-OD/B Technical Characteristics Expeditionary Power Systems, Equipment

---

CMN-2155    1.0    \*    B    L

Goal. Describe T/E shelters.

Requirement. Given references and T/E shelters:

1. Identify the function of each.
2. Identify SL-3 components for each.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Shelter Technical Manuals

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CMN-2156    2.0    \*    B    Shelter    L

Goal. Emplace shelter.

Requirement. As a part of a crew, given a site diagram, Heavy Equipment, and a shelter, complete the following:

1. Place shelter according to site diagram.
2. Level shelter as required.

Performance Standard. Shelter is emplaced and leveled per the site diagram without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2155

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable Technical Manual

CMN-2157    2.0    \*    B    Shelter    L

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Goal. Cable shelter for power.

Requirement. As a part of a crew, given references, cables, shelter, and grounding kit, complete the following steps:

1. Ground Shelter.
2. Connect Power Cable.
3. Energize specified section.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2156

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable Technical Manual

CMN-2158    1.0    \*    B    Tool box    L

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Goal. Demonstrate how to maintain a tool box.

Requirement. Given the references and a tool box, complete the following steps to sustain tool accountability and serviceability:

1. State the purpose of a tool box and assigned responsibilities.
2. Ensure tool box record jacket is current.
3. Conduct an SL-3 inventory of all tools in the tool box.
4. PM each tool and ensure it is serviceable.
5. State the process for replacement of the unserviceable tools.
6. State the process for replacement of missing tools.

7. Ensure proper documentation.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MMO SOP
2. MCO P4790.2\_
3. MCO p4400.150\_
4. Supply instruction
5. Applicable SL-3 for tool box

CMN-2159    1.0    \*    B,R    \_\_\_\_\_    GCSS    L

Goal. Initiate a service request.

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

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

Performance Standard. With the aid of reference, complete the requirements IAW the references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. Appropriate GCSS access

Reference.

1. UM 4790.5
2. TM 4700-15/1\_
3. MCO P4790.2\_
4. MCBUL 3000
5. MCO P4400.16\_
6. Unit Maintenance Administration SOP

4.10.4 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) STAGE

4.10.4.1 Purpose. To teach the trainee how to use various test equipment that will be used in the performance of their assigned duties.

4.10.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

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TMDE-2171    2.0    \*    B,R    Oscilloscope    L

Goal. Utilize an oscilloscope.

Requirement. Given the references, an oscilloscope and a signal generator:

1. State the purpose of an oscilloscope.
2. Verify calibration is current.
3. Measure a signal.
4. Report the results.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2172

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 11277A-OI/1 OSCILLOSCOPE TDS 5054B-NV-AVTM 11277A-ID/2 OSCILLOSCOPE TDS 5054B-NV-AV

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TMDE-2172    2.0    \*    B,R    Signal generator    L

Goal. Demonstrate the use of a signal generator.

Requirement. Given a signal generator demonstrate the following:

1. Verify current calibration.
2. Configure signal generator for output.

3. Verify output.

Performance Standard. Report the results without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable signal generator manual and equipment TM

---

TMDE-2173    2.0    \*    B,R    R1L-C L

Goal. Utilize a Ground Tester.

Requirement. Given a ground tester, grounded equipment, and references:

1. State the purpose of a ground tester.
2. Verify calibration is current.
3. Measure resistance to ground in ohms.
4. State whether the ohm level is within tolerance.
5. Adhere to safety procedures.

Performance Standard. With the aid of reference, demonstrate proper use of the ground tester and measure ground resistance in ohms, report results without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 9406-15
2. TM 10069A-14 O&M w/IPB R1L-C

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TMDE-2175    1.0    \*    B,R    Multimeter L

Goal. Utilize a multimeter.

Requirement. Given a multimeter, cable, and references:

1. State the purpose of the multimeter.

2. Verify calibration is current.
3. Perform continuity check on a cable or wire.
4. Measure resistance.
5. Measure voltage (AC and DC).
6. Adhere to safety procedures.

Performance Standard. With the aid of reference, demonstrate the proper use of a multimeter by completing the requirements without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable user manual

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TMDE-2176 1.0 \* B,R Spectrum Analyzer L

Goal. Measure an RF signal with a spectrum analyzer.

Requirement. Given a spectrum analyzer and applicable reference, complete the following:

1. State the purpose of a spectrum analyzer.
2. Verify current calibration.
3. Set reference level.
4. Measure a signal.
5. Center the signal within the display.
6. Maximize the frequency span to best display the signal.

Performance Standard. Report the results without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Spectrum analyzer user's manual

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TMDE-2177 1.0 \* B,R Wattmeter L

Goal. Utilize a wattmeter.

Requirement. Given the reference, a watt meter, VSWR chart, a radio and required antenna or dummy load:

1. State the purpose of the watt meter.
2. Verify calibration is current.
3. Select appropriate configuration.
4. Measure forward power.
5. Measure reflected power.
6. Calculate voltage standing wave ratio (VSWR).

Performance Standard. With the aid of reference, utilize a watt meter by demonstrating the requirement without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 09916A-14&P/1 - Test Set, Radio Frequency Model 4410-030

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TMDE-2178 1.0 \* B,R OTDR L

Goal. Utilize an Optical Time Domain Reflectometer (OTDR).

Requirement. Given the reference, an OTDR and a fiber optical cable:

1. State the purpose of an OTDR.
2. Verify calibration is current.
3. Determine the length of the fiber cable using the OTDR.
4. Determine the amount of signal loss (dB) using the OTDR.

Performance Standard. With the aid of reference, utilize an Optical Time Domain Reflectometer by completing the requirements without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable OTDR Manual

TMDE-2179 1.0 \* B,R Radio Test Set L

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Goal. Utilize a radio test set.

Requirement. Given a radio, one radio test set, and applicable references, perform the following:

1. State the purpose of a radio test set.
2. Verify calibration is current.
3. Configure signal generator as required.
4. Configure Receiver as required.
5. Determine frequency accuracy of transmitted frequency.
6. Determine power out of a given transmitter.

Performance Standard. With the aid of reference, utilize a radio test set by using any unit organic radio to demonstrate requirement items without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 09311A-15/\_ Communications Service Monitor TS-4317 Operations Manual
2. Applicable radio TMs

#### 4.10.5 COMMUNICATION SECURITY (COMSEC) STAGE

4.10.5.1 Purpose. To teach the trainee safe handling and storage of classified material, use of common fill devices, crew changeover procedures, and provide familiarization with the EKMS COMSEC callout. Additionally, trainee learns to identify and load CCI devices.

#### 4.10.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

COMSEC-2190 2.0 365 B, R, M L

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Goal. Describe proper handling and storage of classified materials.

Requirement. Perform the following:

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

Performance Standard. With the aid of reference, state the above requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5510.18\_
2. EKMS-1\_
3. SECNAVINST 5510.36
4. UNIT SOP

COMSEC-2191 2.0 365 B, R, M L

Goal. State the physical security requirements for classified areas.

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

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

Performance Standard. With the aid of reference, pass an exam without error.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5530.14
2. FM 5-34\_

COMSEC-2192 2.0 365 B, R, M \_\_\_\_\_ L

Goal. Create a classified area physical security diagram.

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

1. Entry control point(s).
2. Perimeter barrier.
3. Communication lines.

Performance Standard. With the aid of reference, draw a diagram depicting the information listed in the requirement without error; instructor will validate that the diagram supports the scenario. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2191

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5530.14
2. FM 5-34\_

COMSEC-2193 2.0 365 B, R, M \_\_\_\_\_ L

Goal. Conduct classified material inventory.

Requirement. During a crew change over, perform the following:

1. Conduct classified material inventory.
2. Conduct EKMS inventory.
3. Destroy superseded key materials.

Performance Standard. With the aid of reference, conduct the requirements without discrepancy.

Instructor. BI, SI

Prerequisite. 2190

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1A
2. 5530

COMSEC-2194 2.0 \* B,R 

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 L

Goal. Extract key material information from EKMS COMSEC callout.

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

1. State the purpose of the EKMS COMSEC callout.
2. Identify the five main pieces of key information:
  - a. Short Title.
  - b. Edition.
  - c. Segment.
  - d. Classification.
  - e. Supersession date.
3. Identify segment roll over dates and time.

Performance Standard. With the aid of reference, state the purpose and identify the key information on the callout without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2190

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1\_
2. MCWP 3-40.3

COMSEC-2195 2.0 365 B, R, M 

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 L

Goal. Utilize a Common Fill Device.

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

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

7. Destroy superseded keying material within the cryptographic fill device.

Performance Standard. With the aid of reference, load keying material into appropriate COMSEC equipment using a fill device and destroy superseded keying material without error.

Instructor. BI, SI

Prerequisite. 2190

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1\_

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COMSEC-2196 2.0 \* B L

Goal. Ensure CMCC handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify classified material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify classified material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. SECNAV 5510.36\_
2. MCO 5510.18\_
3. UNIT SOP
4. EKMS-1\_

---

COMSEC-2197 2.0 \* B L

Goal. Ensure EKMS material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify EKMS material is stored IAW the reference.
2. Verify proper destruction of material IAW the reference.
3. Verify EKMS material is transported IAW the reference.

Performance Standard. With the aid of reference, validate EKMS material handling procedures are being implemented by completing the requirement items without error.

Instructor. BI, SI

Prerequisite. 2190

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1\_
2. UNIT SOP

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COMSEC-2198 1.0 \* B L

Goal. Ensure CCI material handling procedures are followed.

Requirement. Given the references, perform the following:

1. Verify CCI material is stored IAW the reference.
2. Verify SF-702s are completed IAW the reference.
3. Verify CCI material is transported IAW the reference.

Performance Standard. With the aid of reference, validate classified material handling procedures are being implemented by completing the requirement without error.

Instructor. BI, SI

Prerequisite. 2190

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. EKMS-1\_
2. UNIT SOP

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COMSEC-2199 2.0 365 B, R, M L

Goal. Ensure physical security of classified areas.

Requirement. Given references and a classified area, verify the following:

1. Guard schedule.
2. Access Control.
3. Perimeter barrier.

Performance Standard. Verify the physical security of the classified area IAW the references. Complete the requirements without error.

Instructor. BI, SI

Prerequisite. 2191, 2192

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P5530.14
2. FM 5-34\_

#### 4.10.6 FAMILIARIZATION (FAM) STAGE

4.10.6.1 Purpose. To familiarize the trainee on non-MOS equipment.

4.10.6.2 General

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Admin Notes. None

Crew Requirements. None

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FAM-2211    3.0    \*    B    L

Goal. State the purpose of Automated Data Processing Equipment (ADPE).

Requirement. Given references, Network Switch, Router, Server, and Workstation and complete the following:

1. State the purpose for each.
2. Identify software components for each.
3. Identify hardware components for each.

Performance Standard. Perform the requirement to a proficient level

(correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable user manuals

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FAM-2213      3.0      \*      B      L

Goal. Define Tactical Data Links characteristics.

Requirement. Given the references, perform the following:

1. State the capability of Link 11.
2. State the capability of Link 11B.
3. State the capability of Link 16.
  - a. JREAP A.
  - b. JREAP B.
  - a. JREAP C.
4. State the capability of Army Tactical Data Link-1 (ATDL).
5. State the capability of NATO Link 1.
6. State the capability of Intelligence Broadcast System (IBS).
7. State the capability of Common Operational Picture (COP) Synch Tool (CST).
8. State the capability of Ground Based Data Link Enhanced (GBDLE).
9. List the types of units that utilize each link.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CJCSI 6610.01D, Joint Multi-TADIL Operating Procedures
2. MIL-STD-6011, Link-11/11B
3. MIL-STD-6016, Link-16
4. STANAG 4175, Link 16 terminal (MIDS)

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FAM-2214    1.0    \*    B    L

Goal. Describe MTAOM equipment.

Requirement. Given the references:

1. Describe the purpose of the System Level Equipment.
2. Describe the purpose of the Digital communications Equipment.
3. Describe the Purpose of the Voice Communications Equipment.
4. Describe the Purpose of the Data Processing Equipment.
5. Describe the Purpose of the Internal Radio Equipment.
6. Describe the Purpose of the Operator interface Equipment.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 08611B-OI MTAOM Operations and Organizational Maintenance Manual

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FAM-2215    1.0    \*    B    L

Goal. Describe Commanders Tactical Terminal (CTT) equipment.

Requirement. Given the reference:

1. Describe the purpose of the CTT antenna equipment.
2. Describe the purpose of the CTT Host.
3. Describe the purpose of the CTT radio.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10389-12 CTT Operators & Unit Maintenance Manual
2. TM 10389-30 CTT Direct Support Maintenance Manual

FAM-2216    2.0    \*    B    \_\_\_\_\_    L

Goal. Identify the Intelligence Operations Workstation (IOW).

Requirement. Given the references and an IOW:

1. Describe the purpose of the IOW.
2. Describe the function of the IOW.
3. Describe software on the IOW.
4. Describe hardware components.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. IOS/IOW User's Manual

2. SL-3-10848D
3. MarineNet - C2PC Course Code C2P001

FAM-2218 1.0 \* B L

Goal. Describe C2 Applications.

Requirement. Given the references describe purpose of the following:

1. TBMCS.
2. AFATDS.
3. C2PC.
4. JADOCS.
5. Transverse (chat program).

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TBMCS SUMs

FAM-2219 1.0 \* B L

Goal. Familiarization with LRR equipment.

Requirement. Given the reference:

1. Describe the purpose of the LRR.
2. Describe the major components of the LRR.
3. Describe the characteristics of the LRR.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07751C-OR Radar Set AN/TPS-59A(V)3

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FAM-2220      1.0      \*      B      L

Goal. Familiarization with MRR equipment.

Requirement. Given the reference:

1. Describe the purpose of the MRR.
2. Describe the major components of the MRR.
3. Describe the characteristics of the MRR.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 07736C-14/1-2 Radar Set AN/TPS-63 System Technical Description

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FAM-2221      1.0      \*      B      L

Goal. Describe the Identification Friend or Foe (IFF) MK XII interrogator system.

Requirement. Given the reference:

1. Describe the purpose of the MK VII IFF system.

2. Describe the major components of the AN/UPX-37 Interrogator system.
3. Describe the characteristics of the AN/UPX-37 Interrogator System.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.  
1. UM 2005

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FAM-2222    1.0    \*    B    L

Goal. Describe TACLAN.

Requirement. Given the references, perform the following:

1. Describe the purpose of the KG-175 TACLAN.
2. State the purpose of the KG-175 TACLAN.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

FAM-2223 1.0 \* B L

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Goal. Identify the major components of the Composite Tracking Network (CTN).

Requirement. Given the references, perform the following:

1. Describe the characteristics of the Cooperative Engagement Capability.
2. Describe the characteristics of the antenna.
3. Describe the characteristics of the AN/USG-4A.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Operational Tasking Cooperative Engagement Capability (OPTASKCEC)
2. TM 11406A-OR/2 Command System Tactical AN/MSQ-143
3. TM 11406A-ORG Command System Tactical AN/MSQ-143
4. TM 11406A-OI AN/USG-4A Composite Tracking Network
5. TM 08611B/10987A/11406A-OR/1 Telescopic Mast Family
6. TM 08611B/10987A/11406A-OR/2 Erection Instructions CSA Fanlite
7. TM 08611B/10987A/11406A-OR/3 Appendix G CSA Fanlite

#### 4.10.7 COLLATERAL DUTY (CD) STAGE

4.10.7.1 Purpose. To familiarize the trainee on the duties and responsibilities of each collateral duty in a maintenance shop.

#### 4.10.7.2 General

Prerequisite. None

Admin Notes. Familiarization of all maintenance collateral duties gives the technician an awareness of the different essential functions required within the maintenance section.

Crew Requirements. None

CD-2230      8.0      \*      B,R      L

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Goal. State the maintenance Collateral Duties (CD).

Requirement. Receive an overview from each collateral duty holder, and at a minimum must be able to state the following:

1. Calibration CD.
  - a. State the purpose of the TMDE program.
  - b. State the duty responsibilities.
2. Modification CD.
  - a. State the purpose of the modification program.
  - b. State the duty responsibilities.
3. Tool Control CD.
  - a. State the purpose of the tool control program.
  - b. State the duty responsibilities.
4. Publications CD.
  - a. State the purpose of the publications program.
  - b. State the duty responsibilities.
5. Safety CD.
  - a. State the purpose of the safety program.
  - b. State the duty responsibilities.
6. Hazmat CD.
  - a. State the purpose of the HAZMAT program.
  - b. State the duty responsibilities.
7. Embarkation.
  - a. State the purpose of the embarkation program.
  - b. State the duty responsibilities.
8. MIMMS.
  - a. State the purpose of the MIMMS program.
  - b. State the duty responsibilities.
9. Records.
  - a. State the purpose of the records program.
  - b. State the duty responsibilities.
10. Quality Control.
  - a. State the purpose of the quality control program.
  - b. State the duty responsibilities.
11. Training Program
  - a. State the purpose of the Training program.
  - b. State the duty responsibilities.

Performance Standard. verbally state the purpose and responsibilities of each CD without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 5210.11E
2. MCO P5125.17C
3. MCO 4790.2\_
4. TM 4700-15/1\_
5. Applicable CD Desktops
6. MCO 5100.29\_
7. MMO SOP
8. MCO 4790.1
9. MCO 5600.1

CD-2231      1.0      \*      B      L

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Goal. Identify the Maintenance Calibrations Program.

Requirement. Given three pieces of Test Measurement and Diagnostic Equipment (TMDE), verify the following:

1. TMDE is correctly marked with calibrations information.
2. Calibration date is current.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. MMO SOP

CD-2232      2.0      \*      B      L

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Goal. Identify the Maintenance Modifications Program.

Requirement. Given the references, perform the following:

1. Describe the purpose of the maintenance modification program.
2. Demonstrate how modifications are:
  - a. Identified.
  - b. Verified.
  - c. Recorded.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. PLMS
2. MCO P4790.2C
3. TM-4700-15/1H
4. Maintenance Modifications Program CD Desktop

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CD-2233      2.0      \*      B      L

Goal. Manage the Tool Control Program.

Requirement. Given the references, perform the following:

1. Identify elements in the Tool Control Desktop Procedures binder.
2. Describe tool control procedures:
  - a. Inventory schedule.
  - b. Check-in/Check-out.
  - c. Tool replacement.
2. Conduct serviceability inspection of tools and tool boxes.
3. Submit special tool allowance authorization request.
4. Identify tools with special calibration requirements and submit for inclusion in Calibrations Program.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2
2. TM 4795-OR/1A
3. MMSOP

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CD-2234      2.0      \*      B      L

Goal. Identify the Maintenance Publications Library.

Requirement. Given the references, perform the following:

1. Demonstrate how to locate required publications for specific equipment.
2. Demonstrate how to verify publications are up-to-date.
3. Describe the purpose of Publications Library Management System (PLMS).
4. Fill out a NAVMC 10772.

Performance Standard. With the aid of reference, demonstrate the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 5210.11E
2. MCO P5125.17C
3. PLMS
4. MCO P4790.2
5. MMO SOP
6. Maintenance Publications Library Desktop

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CD-2235      2.0      \*      B      L

Goal. Identify major Maintenance Safety Program elements.

Requirement. Given the references, perform the following:

1. Define and identify the purpose of Lock-out/Tag-out.
2. Demonstrate lock-out/tag-out procedures.
3. Eliminate the effects of ESD on electronic components.
  - a. Define ESD.
  - b. Setup ESD workstation.
  - c. Demonstrate proper use of ESD workstation during repair of ESD sensitive circuit.
  - d. Demonstrate proper packaging and handling of ESD sensitive material.
4. Describe hazard prevention as it applies to:
  - a. Electrical hazards.
  - b. Eye hazards.
  - c. Hearing hazards.
  - d. RF hazards.
  - e. Fire hazards.
5. Identify HAZMAT procedures.
  - a. State purpose of a Material Safety Data Sheets (MSDS).
  - b. Properly store and label HAZMAT materials.
  - c. Demonstrate proper usage of Personal Protective Equipment

(PPE).

- d. State the purpose of and locate and read safety board.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 5100.29
2. MCO 4450.12
3. MCO 5100.8
4. TM 07751B Series
5. TM 07736C Series
6. OSHA standard 29 CFR 1910.147
7. Electro Discharge Mgmt (ESD) TM-9999-15/2
8. Maintenance Safety Program Desktop

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CD-2236      2.0      \*      B      L

Goal. State the purpose of the Material Safety Data Sheet (MSDS) and the MSDS compliance center.

Requirement. Given an MSDS and references, perform the following:

1. State the purpose of MSDS.
2. List the section of an MSDS.
  - a. Chemical identity.
  - b. Manufactures name and contact information.
  - c. Hazardous ingredients/identity information.
  - d. Physical/chemical characteristics.
  - e. Fire and explosion hazard data.
  - f. Reactivity data.
  - g. Health hazard data.
  - h. Precautions for safe handling and use.
  - i. Control measures.
3. State the purpose of the MSDS center.
4. Locate the MSDS compliance center in the maintenance department.

Performance Standard. With the aid of the MSDS Binder, state the purpose and components of a Material Safety Data Sheet (MSDS) without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Maintenance Safety SOP
2. MSDS binder
3. 29 CFR 1910.1200
4. MCO 4450-12
5. MCO P4790.2\_
6. Associated Desktop
7. OSHA 29 CFR refer to  
[http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=standards  
&p\\_id=10099](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=standards&p_id=10099)

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CD-2237      3.0      \*      B      L

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

Requirement. Given the references, perform the following:

1. State the purpose of the maintenance embarkation program.
2. State the purpose of the equipment density list (EDL).
3. List length, width, height, and weight of major end items.
4. Identify ground equipment transportation requirements.
5. Identify Heavy Equipment (HE) requirements needed for systems movement.

Performance Standard. With the aid of reference, identify the five key elements listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 4-11.3\_ Unit Embarkation Handbook
2. MCO P4790.2\_
3. Technical Manuals
4. Maintenance Embarkation Program Desktop

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CD-2238      1.0      \*      B      L

Goal. Identify the equipment record jacket.

Requirement. Given the references and a record jacket, perform the following:

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

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2
2. TM-4700-15/1
3. MCO 5210.11E

CD-2239      2.0      1460      B, R, M      L

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Goal. Perform Quality Control Procedures.

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

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

- (6) Proper GCSS entries are annotated on the Service Request throughout the Maintenance Cycle.  
5. Write a report identifying discrepancies.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. MMO SOP
3. Applicable TMs
4. UM 4400-125 (Draft)

CD-2243      2.0      \*      B      L

Goal. Identify the Maintenance Training program.

Requirement. Given the references, perform the following:

1. Describe the purpose of the maintenance training program.
2. List annual training requirements.
3. List requirements for maintenance management training.
4. Explain the purpose of the Aviation T&R program.
5. Explain how training is tracked within the Aviation T&R program.

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP
2. MCO p4790.2\_
3. NAVMC 3500.14\_
4. MCRP 3-01\_

4.10.8 INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT) STAGE

4.10.8.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

4.10.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFAT-2250 4.0 \* B E L

Goal. Explain PC hardware.

Requirement. Without the aid of references, perform the following:

1. Explain and apply BIOS settings.
2. Differentiate between motherboard components, their purposes, and properties.
3. Compare RAM types and features.
4. Explain the installation and configuration of expansion cards.
5. Explain installation and configuration of storage devices and appropriate media.
6. Differentiate among various CPU types and features and select the appropriate cooling method.
7. Compare various connection interfaces and explain their purpose.
8. Identify the appropriate power supply based on a given scenario.
9. Evaluate and select appropriate components for a custom configuration, to meet customer specifications or needs.
10. Given a scenario, evaluate types and features of display devices.
11. Identify connector types and associated cables.
12. Explain the installation and configuration of various peripheral devices.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2251 4.0 \* B E L

Goal. Explain networking concepts.

Requirement. Without the aid of references, perform the following:

1. Identify types of network cables and connectors.
2. Categorize characteristics of connectors and cabling.
3. Explain properties and characteristics of TCP/IP.
4. Explain common TCP and UDP ports, protocols, and their purpose.
5. Compare wireless networking standards and encryption types.
6. Install, configure, and deploy a SOHO wireless/wired router using appropriate settings.
7. Compare Internet connection types and features.
8. Identify various types of networks.
9. Compare network devices their functions and features.
10. Given a scenario, use appropriate networking tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2252 4.0 \* B E L

Goal. Explain laptop features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Install and configure laptop hardware and components.
2. Compare the components within the display of a laptop.
3. Explain the differences between the various printer types and summarize the associated imaging process.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2253 4.0 \* B E L

Goal. Explain printer features and characteristics.

Requirement. Without the aid of references, perform the following:

1. Explain the differences between the various printer types and summarize the associated imaging process.
2. Given a scenario, install, and configure printers.
3. Given a scenario, perform printer maintenance.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2254 4.0 \* B E L

Goal. Explain operational procedures.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, use appropriate safety procedures.
2. Explain environmental impacts and the purpose of environmental controls.
3. Given a scenario, demonstrate proper communication and professionalism.
4. Explain the fundamentals of dealing with prohibited content/activity.

Performance Standard. Without the aid of reference, pass an exam with

80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2255 4.0 \* B E L

Goal. Explain operating systems.

Requirement. Without the aid of references, perform the following:

1. Compare the features and requirements of various Microsoft Operating Systems.
2. Given a scenario, install, and configure the operating system using the most appropriate method.
3. Given a scenario, use appropriate command line tools.
4. Given a scenario, use appropriate operating system features and tools.
5. Given a scenario, use Control Panel utilities (the items are organized by "classic view/large icons" in Windows).
6. Setup and configure Windows networking on a client/desktop.
7. Perform preventive maintenance procedures using appropriate tools.
8. Explain the differences among basic OS security settings.
9. Explain the basics of client-side virtualization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2256 4.0 \* B E L

Goal. Explain security.

Requirement. Without the aid of references, perform the following:

1. Apply and use common prevention methods.
2. Explain the implementation of security best practices to secure a workstation.
3. Given a scenario, use the appropriate data destruction/disposal method.
4. Given a scenario, secure a SOHO wireless network.
5. Given a scenario, secure a SOHO wired network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2257 4.0 \* B E L

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Goal. Explain Mobile Devices.

Requirement. Without the aid of references, perform the following:

1. Explain the basic features of mobile operating systems.
2. Establish basic network connectivity and configure email.
3. Compare methods for securing mobile devices.
4. Compare hardware differences in regards to tablets and laptops.
5. Execute and configure mobile device synchronization.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-2258 4.0 \* B E L

Goal. Explain Troubleshooting.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, explain the troubleshooting theory.
2. Given a scenario, troubleshoot common problems related to motherboards, RAM, CPU and power with appropriate tools.
3. Given a scenario, troubleshoot hard drives and RAID arrays with appropriate tools.
4. Given a scenario, troubleshoot common video and display issues.
5. Given a scenario, troubleshoot wired and wireless networks with appropriate tools.
6. Given a scenario, troubleshoot operating system problems with appropriate tools.
7. Given a scenario, troubleshoot common security issues with appropriate tools and best practices.
8. Given a scenario, troubleshoot, and repair common laptop issues while adhering to the appropriate procedures.
9. Given a scenario, troubleshoot printers with appropriate tools.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

4.10.9 INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT) STAGE

4.10.9.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

4.10.9.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-2259 4.0 \* B E L

Goal. Explain Networking Concepts.

Requirement. Without the aid of references, perform the following:

1. Compare the layers of the OSI and TCP/IP models.
2. Classify how applications, devices, and protocols relate to the OSI model layers.
3. Explain the purpose and properties of IP addressing.
4. Explain the purpose and properties of routing and switching.
5. Identify common TCP and UDP default ports.
6. Explain the function of common networking protocols.
7. Summarize DNS concepts and its components.
8. Given a scenario, implement the following network troubleshooting methodology.
9. Identify virtual network components.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2260 4.0 \* B E L

Goal. Explain Network Installation and Configuration.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, install and configure routers and switches.
2. Given a scenario, install and configure a wireless network.
3. Explain the purpose and properties of DHCP.
4. Given a scenario, troubleshoot common wireless problems.
5. Given a scenario, troubleshoot common router and switch problems.
6. Given a set of requirements, plan and implement a basic SOHO network.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2261 4.0 \* B E L

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Goal. Explain Network Media and Topologies.

Requirement. Without the aid of references, perform the following:

1. Categorize standard media types and associated properties.
2. Categorize standard connector types based on network media.
3. Compare different wireless standards.
4. Categorize WAN technology types and properties.
5. Describe different network topologies.
6. Given a scenario, troubleshoot common physical connectivity problems.
7. Compare different LAN technologies.
8. Identify components of wiring distribution.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2262 4.0 \* B E L

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Goal. Explain Network Management.

Requirement. Without the aid of references, perform the following:

1. Explain the purpose and features of various network appliances.
2. Given a scenario, use appropriate hardware tools to troubleshoot connectivity issues.
3. Given a scenario, use appropriate software tools to troubleshoot connectivity issues.
4. Given a scenario, use the appropriate network monitoring resource to analyze traffic.
5. Explain the purpose of configuration management documentation.
6. Explain different methods and rationales for network performance optimization.

Performance Standard. Without the aid of reference, pass an exam with

80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFNT-2263 4.0 \* B E L

Goal. Explain Network Security.

Requirement. Without the aid of references, perform the following:

1. Given a scenario, implement appropriate wireless security measures.
2. Explain the methods of network access security.
3. Explain methods of user authentication.
4. Explain common threats, vulnerabilities, and mitigation techniques.
5. Given a scenario, install and configure a basic firewall.
6. Categorize different types of network security appliances and methods.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

4.10.10 INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)  
STAGE

4.10.10.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

4.10.10.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-2264 4.0 \* B E L

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Goal. Explain Network Security.

Requirement. Without the aid of reference, perform the following:

1. Explain the security function and purpose of network devices and technologies.
2. Describe the implementation of secure network administration principles.
3. Describe between network design elements and components.
4. Describe the use common protocols.
5. Identify commonly used default network ports.
6. Describe the implementation of a wireless network in a secure manner.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2265 4.0 \* B E L

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Goal. Explain Operational Security.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2266 4.0 \* B E L

Goal. Explain threats and vulnerabilities.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2267 4.0 \* B E L

Goal. Explain cryptography.

Requirement. Without the aid of reference, perform the following:

1. Summarize general cryptography concepts.
2. Explain the appropriate cryptographic tools and products.

3. Explain the core concepts of public key infrastructure.
4. Explain the Implementation of PKI, certificate management and associated components.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2268 4.0 \* B E L

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Goal. Explain access control and identity management.

Requirement. Without the aid of reference, perform the following:

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFST-2269 4.0 \* B E L

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Goal. Explain application, data and host security.

Requirement. Without the aid of reference, perform the following:

1. Explain the importance of application security.

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

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

#### 4.10.11 EQUIPMENT (EQUIP) STAGE

4.10.11.1 Purpose. To instruct the trainee on MACCS unique electronic equipment.

#### 4.10.11.2 General

Prerequisites. None

Admin Notes. None

Crew Requirements. None

EQUIP-2380 4.0 \* B L

Goal. Conduct Maintenance on the AN/USQ-140(V)2 Multifunctional Information Distribution System (MIDS).

Requirement. Given the reference, AN/USQ-140(V)2, required component(s), TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct CM on the AN/USQ-140(V)2 and identify faulty component on the system.
2. Replace the faulty component(s), as required.
3. Complete all required administrative actions.
4. Return to operational readiness condition.
5. Conduct PM on the AN/USQ-140(V)2.
6. Document as required.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 11-5895-1592-12 MIDS OP/MAINT MAN
2. TM 11-5895-1592-23P Repair Parts and Special Tools
3. TM 11-5895-1592-30 Direct Support Maintenance Manual AN/USQ-140 (V) 2
4. MIL-STD-6016E

EQUIP-2381 4.0 \* B L

Goal. Identify the major components of the AN/USQ-140 (V) 2 Multifunctional Information Distribution System (MIDS).

Requirement. Given the references, perform the following:

1. Describe the characteristics of the MIDS Terminal.
2. Describe the characteristics of Link 16.
3. Describe subsystem interfaces.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 11-5895-1592-12 MIDS OP/MAINT MAN
2. TM 11-5895-1592-23P Repair Parts and Special Tools
3. TM 11-5895-1592-30 Direct Support Maintenance Manual AN/USQ-140 (V) 2
4. MIL-STD-6016E

EQUIP-2384 1.0 \* B L

Goal. Describe HF, VHF, UHF, SATCOM radio characteristics.

Requirement. Given a list of radio equipment, describe the following characteristics for each:

1. AN/VRC 103.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
2. AN/VRC 104.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
3. AN/VRC 110.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
4. AN/GRC 171B(V) 4.
  - a. Frequency range.
  - b. Power output.
  - c. Types of antennas.
5. AN/GRC-256
  - a. Frequency range
  - b. Power output
  - c. Types of antennas.
6. AN/USQ-140(V) 2
  - a. Frequency range
  - b. Power output
  - c. Types of antennas.

Performance Standard. Without the aid of reference, describe HF, VHF, UHF, SATCOM radio characteristics without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM-09780A-13&P/1 Radio Set AN/GRC-171B(V) 4
2. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio
3. TM 11255A-OR/1 AN/VRC-103(V) 2 Vehicular Radio Communication System
4. TM-11496A-OI/4 AN/PRC-152 Multiband Handheld Radio System
5. TM 10255A-14/1 Falcon Series Tactical Communications System

EQUIP-2385 1.0 \* B L

Goal. Identify the characteristics of unit T/E communications systems.

Requirement. Identify the following:

1. Radio assets.
  - a. Frequency range.
  - b. Power output.

- c. Types of antennas.
2. Embarkation requirements.
3. Power requirements.
4. Antenna requirements.

Performance Standard. With the aid of reference, pass an exam on the above list with 100% accuracy.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 08611B-OI VOL1 of 3 REV 1, Mobile Tactical Air Operations Module
2. TM 08565A-14/11, Tactical Air Operations Module
3. TM-11406A-OR/1-1, Composite Tracking Network
4. TM 10200A-OI/1A, Air Defense Communications Platforms
5. TM 11228A-OI/1, AN/GRC-256, HF Radio Set
6. TM 10822A-OR AN/PRC-150, Advanced Tactical HF Radio
7. TM 11255A-OR/1, AN/VRC 103, Vehicular Radio Communications System
8. TM 12041A/12050A-OD/1, Common Aviation Command and Control System
9. TM 09780A-13&P/1, AN/GRC 171, UHF Radio Set

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EQUIP-2386 2.0 \* B L

Goal. Erect T/E antennas.

Requirement. Perform the following:

1. Erect ground antennas.
2. Erect antennas mounted to vehicles/shelters.
3. Erect antennas on antenna masts.

Performance Standard. With the aid of reference, assemble and erect ground based and vehicle mounted antennas without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

EQUIP-2387 2.0 \* B L

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Goal. Install radios in T/E communication systems.

Requirement. With the aid of reference, install each radio into the communication system:

Performance Standard. Properly install the radios IAW references without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio
2. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
3. DRAFT - TM 12041A/15050A-OD/2 CAC2S System User Manual
4. DRAFT - TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual

EQUIP-2388 2.0 \* B L

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Goal. Interface an external radio into T/E communication systems.

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

Performance Standard. With the aid of reference, interface a radio external to the communication system and conduct a communications check. Instructor shall verify the communication check was successful.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

EQUIP-2389 4.0 \* B L

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Goal. Setup the Processing Display System (PDS).

Requirement. Given a site layout and all associated equipment, setup and cable a PDS suite by performing the following steps:

1. Emplace Integrated Table Assembly, User Interface Devices (UID), foot pedals and headsets.
2. Emplace Dual Tent Switch.
3. Interconnect UID's, Integrated Table Assembly, and Dual Tent Switch.
4. Interconnect Dual Tent Switch and Processing Display System - Operations Trailer (PDS-OT).
5. Create Voice Network by interconnecting PDS-OT with the CS utilizing:
  - a. 500M Tactical Fiber Optic Cable Assembly II (TFOCA II).
  - b. 1.5KM TFOCA II.
  - c. Category 5e or Category 6e (preferred for when fiber optic is not available) networking cable.
6. Configure Voice Network with Digital Switching Unit (DSU).
7. Manipulate UID template, Net List and radio settings with DSU.
8. Monitor LAN with Voice System Operator Laptop (VSOL).

Performance Standard. With the aid of reference, complete the requirement items. The Instructor shall observe the trainee conducting the requirement items and verify all functions of DSU and all UIDs are operational and the LAN links are verified on the VSOL.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 12041A/12050A-OD/2 Common Aviation Command and Control System
2. Draft Distributed Scalable Access Net (DSAN) Systems Manual Software Build 5.13

EQUIP-2390 1.0 730 B, R, M L

Goal. Configure MBVR for plain text (PT) operations.

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

1. Identify the characteristics of the AN/VRC-103.
2. Identify the components of the AN/VRC-103.
3. Define the operation of the AN/VRC-103.
4. Identify the procedures to manually program the AN/VRC-103.
5. Program the AN/VRC-103.
6. Identify the procedures to program the AN/VRC-103 using the Radio

Programming application (RPA).

7. Program the AN/VRC-103 using Radio Programming Application (RPA).

8. Conduct a communications check.

Performance Standard. With the aid of reference, complete the requirement items and conduct a communications check using a second radio set. Instructor will verify communications check was successful.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set

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EQUIP-2391 1.0 730 B, R, M L

Goal. Configure AN/VRC-104 for plain text (PT) operations.

Requirement. Given an AN/VRC-104 perform the following:

1. Identify the characteristics of the AN/VRC-104.
2. Identify the components of the AN/VRC-104.
3. Identify the operation of the AN/VRC-104.
4. Identify the procedures to manually program the AN/VRC-104.
5. Manually program an AN/VRC-104.
6. Identify the procedures to program the AN/VRC-104 using the Radio Programming Operation (RPA).
7. Program the AN/VRC-104 using Radio Programming Application (RPA).
8. Conduct a communications check.

Performance Standard. Complete the requirement items IAW the reference without error; minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio

EQUIP-2392 1.0 730 B, R, M L

Goal. Configure the MBVR and the AN/VRC-104 for single channel operations, Cipher Text (CT).

Requirement. Given radios and common fill device with keying material, perform the following:

1. Set correct frequency.
2. Set power out.
3. Set mode of Operation (AM, FM, etc).
4. Load correct fill for the type of radio utilized.
5. Conduct an encrypted communications check.

Performance Standard. With the aid of reference, complete the requirement items and conduct an encrypted communications check. Instructor will verify communications check was successful.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
2. TM 11255A-OR/1 AN/VRC-103(V)2 Vehicular Radio Communication System
3. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio

EQUIP-2393 1.0 730 B, R, M L

Goal. Configure the MBVR for SATCOM operation.

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

1. Configure 5 KHz NB (dedicated) channel.
2. Configure 25 KHz WB (dedicated) channel.
3. Configure DAMA Channel.
4. Configure Integrated Waveform (IW).
4. Load correct fill for type of radio utilized.
5. Setup antenna.
6. Conduct an encrypted radio check.

Performance Standard. With the aid of reference, configure the requirement items and conduct an encrypted communications check.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set

EQUIP-2394 1.0 730 B, R, M L

Goal. Configure the MBVR radio for enhanced operation.

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

1. Configure for frequency hopping.
2. Configure for HAVEQUICK II.

Performance Standard. With the aid of reference, achieve two-way communications with another radio set.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set
2. TM 2010-10/A Principle Technical Characteristics of U.S. Marine Corps HAVEQUICK Employment

EQUIP-2395 1.0 730 B, R, M L

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

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

Performance Standard. With the aid of reference, achieve two-way communications with another radio set.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10822A-OR AN/PRC-150© Advanced Tactical HF Radio

EQUIP-2396 4.0 \* B, R L

Goal. Demonstrate field expedient antenna techniques.

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

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

Performance Standard. 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. The antenna shall be able to transmit and receive clear voice/data at determined frequency.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 3-40.3B Radio Operator's Handbook
2. MCRP 3-40.3C Antenna Handbook

EQUIP-2397 2.0 \* B L

Goal. Perform PMCS on AN/VRC 104.

Requirement. Given the reference, required TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct PMCS on an AN/VRC-104 IAW the reference.
2. Complete all required administrative actions.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio

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EQUIP-2398 2.0 \* B L

Goal. Perform PMCS on MBVR.

Requirement. Given the reference, required TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct PMCS on an AN/VRC-103 IAW the reference.
2. Complete all required administrative actions.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set

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EQUIP-2399 2.0 \* B L

Goal. Perform PMCS on the AN/VRC 110.

Requirement. Given the reference, required TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct PMCS on the AN/VRC-110 IAW the reference.
2. Complete all required administrative actions.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System

EQUIP-2400 4.0 \* B L

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Goal. Perform CM on AN/VRC-104.

Requirement. Given the reference, required component(s), TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct CM on the AN/VRC-104 and identify faulty component on the AN/VRC 104 system.
  - a. RF-382A, Coupler.
  - b. RF-5033H-PA, Vehicle Adapter Amplifier (VAA).
  - c. RT-1694D.
  - d. Antenna.
2. Replace the faulty component(s), as required.
3. Complete all required administrative actions.
4. Return to operational readiness condition.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio

EQUIP-2401 4.0 \* B L

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Goal. Perform CM on MBVR.

Requirement. Given the reference, required component(s), TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct CM on the AN/VRC-103 IAW the reference and identify faulty component on the AN/VRC 103 system.
  - a. AM-7588, Vehicle Adapter Unit (VAU).
  - b. RT-1796D.
  - c. Antenna.
2. Replace the faulty component(s), as required.
3. Complete all required administrative actions.
4. Return to operational readiness condition.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1(C)Radio Set

EQUIP-2402 4.0 \* B L

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Goal. Perform CM on AN/VRC-110.

Requirement. Given the reference, required component(s), TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct CM on the AN/VRC-110 IAW the reference and identify faulty component on the AN/VRC 110 system.
  - a. 0N689740-\_\_ (RT).
  - b. RF 300M-HV Vehicle Amplifier Adapter.
  - c. Antenna.
2. Replace the faulty component(s), as required.
3. Complete all required administrative actions.
4. Return to operational readiness condition.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation

requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM-11496A-OI RF-300M-HVXXX Multiband Vehicular Radio System

EQUIP-2403 4.0 \* B, R L

Goal. Perform CM on the CS system.

Requirement. Given the reference, required component(s), TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct CM on the CS and identify faulty systems.
  - a. Power Distribution System.
  - b. LongArm/DSAN.
  - c. Radio Systems.
    - (1) AN/VRC-103.
    - (2) AN/VRC-104.
2. Receive and replace the faulty component(s), as required.
3. Complete all required administrative actions.
4. Return to operational readiness condition.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. DRAFT - TM 12041A/15050A-OD/2 CAC2S System User Manual
2. DRAFT - TM 12041A/15050A-OD/1 CAC2S System Maintenance Manual
3. Draft - System User Manual DSAN 5.13
3. TM 10597A-OR/4 Manpack Radio Operation Manual AN/PRC-117F(V)1@Radio Set
4. TM 10822A-OR AN/PRC-150(C) Advanced Tactical HF Radio

EQUIP-2404 2.0 \* B L

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Goal. Conduct maintenance on the HF data radio set.

Requirement. Given the reference, HF data radio set, cleaning gear and PPE, perform the following:

1. Conduct PMCS.
2. Conduct Corrective maintenance.
3. Document as required.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Receiver Radio R-2420/URC
2. TYQ-23(V)4 TM 08565A-12/31
3. Exciter Unit TYQ-23 TM 08565A-12/32V1
4. Amplifier TYQ-23(V) TM 08565A-12/33
5. Power Supply TYQ-23(V) TM 08565A-12/34
6. TM-11228A-OI/1 - RT-9000 Operation and Maintenance Manual
7. TM-11228A-OI/2 - LPA-9500 Operation and Maintenance Manual

EQUIP-2405 2.0 \* B L

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Goal. Perform PMCS on AN/GRC-171.

Requirement. Given the reference, required TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct PMCS on an AN/GRC-171 IAW the reference.
2. Complete all required administrative actions.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 09780A-12/2 & TM 09780A-13&P/1 for the GRC-171

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EQUIP-2406 4.0 \* B L

Goal. Perform CM on AN/GRC-171.

Requirement. Given the reference, required component(s), TMDE and maintenance tools listed in the reference, perform the following:

1. Conduct CM on an AN/GRC-171 IAW the reference and identify faulty component on the AN/GRC-171 system.
2. Replace the faulty component(s), as required.
3. Complete all required administrative actions.
4. Return to operational readiness condition.
5. Document as required.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 09780A-12/2 & TM 09780A-13&P/1 for the GRC-171

#### 4.10.12 MAINTENANCE MANAGEMENT (MMGT) STAGE

4.10.12.1 Purpose. To train the trainee on the basic skills necessary to perform as a member of a maintenance shop.

#### 4.10.12.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-2600 3.0 \* B L

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Goal. Ensure preparatory measures are taken for disposition of equipment.

Requirement. Given a Phase out Plan (POP) and applicable references, ensure unserviceable/obsolete equipment is properly disposed.

1. Provide supply with disposition request.
2. Ensure final SL-3/LTI is performed.
3. Ensure record jackets are turned-in with equipment.
4. Provide supply with required documentation to remove from CMR.

Performance Standard. With the aid of reference, verbally describe the process to dispose of equipment according to the disposition instructions. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Equipment Disposition Instructions
2. Supply Instructions
3. SL-3 or other inventory documents.
4. MCO P4400.82F Regulated Controlled Item Management
5. UM 4400-125 (Draft)

MMGT-2601 1.0 \* B L

---

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

Requirement. Given a list of equipment requiring PMCS create a schedule.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2151

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM-4700-15/1H
2. MCO P4790.2\_

MMGT-2602 4.0 \* B, R GCSS L

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

Requirement. Given the reports listed in item 1 below:

1. Identify the purpose of:
  - a. Maintenance Production Report (MPR).
  - b. Equipment Status Report (ESR).
  - c. Preventative Maintenance Report.
  - d. Calibrations Report.
  - e. Modification Instruction report.
  - f. Maintenance Management Report (MMR).
  - g. Loaded unit balance file (LUBF).
  - h. Due and status file (DASF).
  - i. Service Request (SR).
    - (1) Tasks.
    - (2) Notes.
    - (3) Parts Requirements.
  - j. Inspection repair tag (NAVMC 1018).
  - k. Layette bin.
    - (1) Sub-Inventory.
    - (2) Stage.
  - l. Oracle Installed Base.
    - (1) Parent/Child Relationships.
2. Identify the type of information contained in each of the forms listed above.
3. Identify the status of a parts requisition.
4. Identify proper use of UMMIPS priorities.
5. State item requisition priorities.
6. State any errors found within each of the forms listed above.
7. Reconcile all items listed above and list all errors found in each form.
8. Explain how to maintain a layette bin.

Performance Standard. With the aid of reference, verbally identify errors on reports provided and identify corrective actions to the instructor without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2159

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. MCBUL 3000
3. MCO P4400.16-
4. DLA Handbook
5. Unit MMSOP
6. UM 4400-125 (Draft)

MMGT-2603 2.0 \* B L

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Goal. Identify the SECREP management process.

Requirement. Given the references, perform the following:

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

Performance Standard. Without the aid of reference, state (verbally or written) the requirement items to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 4790.2\_
2. MCO P4400.150\_
3. FEDLOG

MMGT-2604 2.0 \* B L

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Goal. Define RA with regards to O&M funds.

Requirement. Given the references, identify the following:

1. Requisition Authority Funds.
2. Identify regulations governing.
3. What can be purchased.

Performance Standard. With the aid of reference, define the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

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MMGT-2605    2.0    \*    B    L

Goal. Define PE with regards to O&M funds.

Requirement. Given the references, identify the following:

1. Planning Estimate funds.
2. Regulations governing.
3. What can be purchased.

Performance Standard. With the aid of reference, define the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

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

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MMGT-2606    2.0    \*    B    L

Goal. Induct new equipment into service.

Requirement. Given a Material Fielding Plans (MFP) or Users Logistics Support Summary (ULSS), and applicable references, demonstrate and validate the induction of new equipment into service.

1. Review the Users Logistics Support Summary (ULSS) or Material

Fielding Plan (MFP).

2. Validate new equipment is properly placed into service.
  - a. Ensure record jacket was created with proper documentation IAW the reference.
  - b. Ensure initial SL-3 was performed.
  - c. Ensure an initial LTI was performed.
  - d. Ensure induction of new equipment into calibration cycle as required.
  - e. Ensure equipment is accounted for within EKMS as required.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2159, 2231, 2238

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. SI 10510-OD
2. ULSS
3. Equipment SL-3
4. MCO P4400.82
5. UM 4400.124

MMGT-2607 2.0 \* B L

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Goal. Phase out equipment.

Requirement. Given a Phase out Plan (POP) and applicable references, demonstrate and validate phase out of obsolete equipment, to include at minimum:

1. Review the POP and applicable references.
2. State the purpose of:
  - a. Recoverable Items Report (WIR).
  - b. WIR Online Process Handler program (WOLPH).
  - c. Material Returns (MTR) program.
3. Validate obsolete equipment was disposed of properly by ensuring the following:
  - a. Ensure a final LTI was performed.
  - b. Ensure a final SL-3 was performed.
  - c. Ensure a Recoverable Items Report (WIR) - request for disposition - was submitted using the WOLPH.
  - d. Ensure equipment was disposed of IAW instructions in Phase out plan.
  - e. Ensure the record jackets were completed and accompanied equipment.
  - f. Ensure the equipment and proper documentation was sent to

Supply for turn-in.

g. Ensure supply received the proper documentation to remove equipment from the CMR.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Supply Instructions (SI)
2. Equipment SL-3
3. Initial Issuing Provision Inventories
4. MCO 5311.1C
5. MCO P4400.82

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MMGT-2608 16.0 \* B, R L

Goal. Inspect maintenance functional areas.

Requirement. Given the applicable references and inspection checklists, demonstrate the procedures for inspecting functional areas.

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

Performance Standard. With the aid of reference, conduct an inspection on three functional areas and submit the findings to the instructor without error. Minor errors corrected by the trainee are acceptable. The instructor will review the findings with the Marine.

Instructor. BI, SI

Prerequisite. 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. FSMAO Checklist

2. CGI Checklist
3. Unit SOP
4. MMOSOP

MMGT-2609 2.0 \* B L

Goal. State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).

Requirement. Given a scenario and applicable references:

1. Pull TO&E via the Total Force Structure Management System (TFSMS).
2. Validate the requirement for change.
3. Complete TOECR form, NAVMC 11355.
4. Identify compensation for T/O changes when possible.
5. Provide an explanation/reason for change request on the change request form in plain English.
6. Provide a copy of the NAVMC 11355 to the instructor for review and validation.

Performance Standard. Complete the requirement items to support the scenario without error. Minor errors corrected by the trainee are acceptable. Instructor will ensure the NAVMC 11355 supports the scenario requirement.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 5311.1\_
2. Unit TO&E

MMGT-2610 2.0 \* B L

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

Requirement. Given the references and an equipment requirement, complete the MCUNP form.

1. State the purpose of the MCUNP.
2. State the purpose of the urgent Universal Needs Statement (UNS).
3. State the purpose of the deliberate UNS.
4. Complete an Urgent UNS form.
5. Complete a deliberate UNS form.

Performance Standard. With the aid of reference, complete the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. NAVMC 11475
2. MCO 3900.17\_

MMGT-2611 40.0 \* B L

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Goal. Conduct a Consolidated Memorandum Receipt (CMR) Review.

Requirement. Given the references and a maintenance section's CMR, ensure equipment accountability and requirements by performing the following:

1. State the purpose of a CMR.
2. Review TE.
3. Conduct a CMR inventory.
  - a. Ensure SL-3 accountability for assumption and relief.
  - b. Determine Using Unit Responsibility (UURI)/Government Furnished Equipment (GFE) requirements.
  - c. Ensure equipment have record jackets.
  - d. Maintain equipment receipt/transfer documents.
  - e. Identify discrepancies, if any.
4. Write and submit a Request for Investigation IAW MCO 4400.150.

Performance Standard. With the aid of reference, complete a CMR review without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4400.150\_
2. CMR
3. MMO SOP

MMGT-2612 1.5 \* B L

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Goal. Verify inventory control procedures are implemented.

Requirement. Given an equipment record and SL-3:

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

Performance Standard. With the aid of reference, perform inventory control procedures without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2159

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4400.150\_
2. MCO P4790.2\_

MMGT-2613 13.0 \* B \_\_\_\_\_ L

Goal. Identify the functions of maintenance management.

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

1. Identify the references associated with the MIMMS.
2. Identify the objectives of MIMMS.
3. Identify equipment maintenance management procedures.
4. Identify the responsibilities of maintenance management personnel.
5. Identify the information contained in the Table of Organization and Equipment (T/O&E).
6. Identify the steps to submit a T/O&E change request.
7. Identify the purpose of supply reports used in Maintenance Management.
8. Identify the procedures to reconcile a Consolidated Memorandum Receipt (CMR).
9. Identify the purpose of maintenance support programs.
10. Identify that describes Repairable Issue Point (RIP) procedures.
11. Identify the RIP customer re-computation procedures.
12. Identify the steps in the Recoverable Item Report (WIR) procedures.

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

Instructor. BI, SI

Prerequisite. 2602, 2603, 2609, 2611

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_
2. MCO P4790.1\_
3. UM 4790.5
4. MCBUL 3000
5. MCO P4400.16\_
6. DLA Handbook
7. Unit MMSOP
8. UM 4400-125 (Draft)
9. MCO 5311.1\_
10. Unit TO&E
11. MCO P4400.150\_
12. CMR
13. MMO SOP
14. MCO 4400.151\_

MMGT-2614 1.0 \* B L

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Goal. Ensure equipment is inducted into maintenance cycle.

Requirement. Given an inoperative piece of equipment and references, complete the following:

1. Review service request.
2. Review Inspection Tag (NAVMC 1018).
3. Inspect equipment.
4. Forward request to next level IAW SOP.

Performance Standard. Complete the requirements with 100% accuracy.

Instructor. BI, SI

Prerequisite. 2159

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 4700-15/1\_
2. MCO P4790.2\_
3. MCO P4400.16\_
4. Unit SOP
5. UM 4400-125 (draft)

4.10.13 OPERATIONAL MANAGEMENT (OMGT) STAGE

4.10.13.1 Purpose. To provide the trainee basic skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

4.10.13.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

OMGT-2680 2.0 \* B L

Goal. Identify the purpose of communication planning documents.

Requirement. Given the documents below, identify their purpose:

1. Guard Chart.
2. Communication Electronic Operating Instruction (CEOI).
3. Operations Order.
4. Annex K of the Operations Order.
5. Annex S of the Operations Order.
6. Site Diagram.
7. Operational Tasking Data Link (OPTASKLINK).
8. EKMS Callout.
9. Operational Tasking Cooperative Engagement Capability (OPTASKCEC).

Performance Standard. Without the aid of reference, state (verbally or written) the requirement items to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCWP 5-1
2. MCWP 3-40.3

OMGT-2681 2.0 365 B, R, M L

Goal. Determine required equipment to support a mission.

Requirement. Given a mission, a list of end items, create a list of equipment that supports all aspects and requirements of the mission, to include the following:

1. Support equipment.
2. EKMS.
3. TMDE.
4. Tools.
5. Utilities support equipment.
6. Supply support items.
7. Logistics/movement support items.
8. Personnel equipment.

Performance Standard. With the aid of reference, produce a list of equipment needed to support the mission by completing the requirement without error. Minor errors corrected by the trainee are acceptable. The instructor will confirm the list supports the mission.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCWP 3-25
2. SECNAVINST 5510.36,
3. EKMS-1

OMGT-2682 4.0 1460 B, R, M L

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Goal. Conduct communications portion of a site survey.

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

1. Utilize planning tools to determine terrain masking and line of sight connectivity.
2. Determine a primary and secondary site location.
3. Identify obstructions and hazards.
4. Determine tactical orientation and equipment emplacement.
  - a. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Fuels (HERF) regulations.
  - b. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Ordinance (HERO) regulations.
  - c. Ensure emitters are emplaced IAW Hazardous Electronic Radiation to Personnel (HERP) regulations.
  - d. Ensure emitters are emplaced to support working area.

5. Identify the placement for vehicles.
6. Identify the placement for antennas.
7. Determine communications obstacles.
8. Determine system grounding requirements.
9. Identify power and fuel requirements.
10. Determine protection from the elements.
11. Determine Terrain Masking.
12. Determine operational footprint.
13. Design a site layout and submit to the instructor.
14. Develop a brief that addresses all event requirement items.

Performance Standard. With the aid of reference, 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. Brief the instructor on the considerations taken for each decision.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCDP 6
2. MCWP 3-25.4
3. MCWP 5-1
4. TM 10576D-OI Communications Interface System AN/MRQ-12(V) 4
5. DRAFT - TM 12041A/15050A-OD/2 CAC2S System User Manual
6. IEEE C95.1-1991
7. NAVSHIPS 0967-317-7010
8. TM 9406-15
9. DODINST 6055.11
10. BUMED 6470.23
11. OPNAVINST 5100.23 Series
12. NAVSEA OP 3565/NAVAIR 16-1-529/NAVELEX 0967-LP-624-6010/Volume II
13. MCO 5100.29A W/CH 1
14. MCO 5104.2
15. MCO 5104.3A

OMGT-2683 2.0 \* B L

Goal. Identify crew requirements and write a crew schedule.

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

1. Determine the duration of operations.
2. Determine total crews required to support the mission.
3. Determine the crew composition/requirements.
4. Write the crew schedule.

5. Submit the crew schedule to the instructor.
6. Describe the process to publish crew schedule once validated.

Performance Standard. With the aid of reference, determine crew requirements and write a crew schedule that supports the mission without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. T&R Manual
2. MCWP 3-25
3. MCWP 3-25.7

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OMGT-2684    3.0    \*    B    L

Goal. Determine supply support requirements.

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

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

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2691

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable TM

OMGT-2685 1.0 \* B L

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Goal. Develop an embarkation plan.

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

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

Performance Standard. With the aid of reference, complete the requirement and develop an embarkation plan to support the scenario. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2687

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable TM
2. Unit SOP

OMGT-2686 8.0 1460 B, R, M L

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Goal. Write a packing list.

Requirement. Given the references, perform the following:

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

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 4-11.3G Unit Embarkation Handbook
2. Local SOP

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OMGT-2687 8.0 \* B L

Goal. Write an Equipment Density List (EDL).

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

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

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 4-11.3G Unit Embarkation Handbook
2. Local SOP
3. Applicable TM

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OMGT-2688 4.0 365 B, R, M L

Goal. Identify power requirements.

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

1. List all PEIs required to support the scenario.
2. Determine power requirements for each piece PEI.
3. Determine total power requirements to support all PEIs listed.

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Refer to equipment applicable TMs

OMGT-2689 1.0 \* B \_\_\_\_\_ L

Goal. Identify spectrum management procedures.

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

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

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 3-40B
2. MCO 2400.2

OMGT-2690 1.0 \* B \_\_\_\_\_ L

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

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

1. Transportation.
2. Material Handling Equipment (MHE).
3. Supplies.
4. Personnel.

Performance Standard. With the aid of reference, submit a completed LSR to the instructor. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP

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OMGT-2691    2.0    \*    B    L

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

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

1. Collect requests from communications maintenance sections.
2. Consolidate required materials into a BOM request.
3. Verify the request is sufficient to support 24-hour operations for the length of the exercise.
4. Validate the content to ensure it meets the requirement.
5. Submit the BOM to the instructor for review.

Performance Standard. With the aid of reference, submit a BOM that supports the scenario to the instructor for review and validation. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Applicable TM
2. Unit SOP

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OMGT-2692    1.0    \*    B    L

Goal. Describe common agency doctrinal nets.

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

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

Performance Standard. With the aid of reference, perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCWP 3-40.3

OMGT-2694 2.0 \* B, R L

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Goal. Draw a site diagram for the TAOC.

Requirement. Given the references and operational documents, draw a site diagram depicting locations and connectivity of the following equipment:

1. MTAOM(s).
3. CTN.
4. CAC2S.
5. Generators.
5. ECUs.

Performance Standard. Draw a site diagram that supports the given scenario without error. Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCWP 3-2
2. MCWP 3-25.4

4.11 MISSION SKILL TRAINING (3000)

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

4.11.2 General.

4.11.2.1 Prerequisite.

4.11.2.2 Admin Notes.

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

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

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

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

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

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

PAR NO.	STAGE NAME
4.11.3	INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT)
4.11.4	INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT)
4.11.5	INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST)
4.11.6	EQUIPMENT (EQUIP)

4.11.7	MAINTENANCE MANAGEMENT (MMGT)
4.11.8	OPERATIONAL MANAGEMENT (OMGT)
4.11.9	MARINE AIR CONTROL GROUP (MACG)

4.11.3 INFORMATION ASSURANCE WORK FORCE A+ TECHNICIAN (IAWFAT) STAGE

4.11.3.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

4.11.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFAT-3280 4.0 1095 B, R, M E L

Goal. Explain concepts included in A+ exam 220-801.

Requirement. Without the aid of references, explain:

1. PC Hardware.
2. Networking.
3. Laptop.
4. Printers.
5. Operational Procedures.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

IAWFAT-3281 4.0 1095 B, R, M E L

Goal. Explain concepts included in A+ exam 220-802.

Requirement. Without the aid of references, explain:

1. Operating Systems.
2. Security.

3. Mobile Devices.
4. Troubleshooting.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2255, 2256, 2257, 2258

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

#### 4.11.4 INFORMATION ASSURANCE WORK FORCE NETWORK+ TECHNICIAN (IAWFNT) STAGE

4.11.4.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

#### 4.11.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFNT-3282 4.0 1095 B, R, M E L

Goal. Explain concepts included in Network+ exam N10-005.

Requirement. Without the aid of references, explain:

1. Networking Concepts.
2. Network Installation and Configuration.
3. Network Media and Topologies.
4. Network Management.
5. Network Security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

4.11.5 INFORMATION ASSURANCE WORK FORCE SECURITY+ TECHNICIAN (IAWFST) STAGE

4.11.5.1 Purpose. To train the trainee on basic concepts of information systems/assurance to facilitate industry standard certification.

4.11.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

IAWFST-3283 4.0 1095 B, R, M E L

Goal. Explain concepts included in Security+ exam SY0-301.

Requirement. Without the aid of reference, explain:

1. Network Security.
2. Operational Security.
3. Threats and vulnerabilities.
4. Cryptography.
5. Access control and identity management.
6. Application, data and host security.

Performance Standard. Without the aid of reference, pass an exam with 80% accuracy.

Instructor. BI, SI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CompTIA Approved Quality Content (CAQC) program reference material

4.11.6 EQUIPMENT (EQUIP) STAGE

4.11.6.1 Purpose. To instruct the trainee on MACCS unique electronic equipment.

4.11.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQUIP-3470 4.0 730 B, R, M L

Goal. Set-up the CS.

Requirement. Given required communications system(s) and a core capable crew, perform the following:

1. Emplace the communications system(s).
2. Safely ground equipment.
3. Test the grounds.
4. Erect and cable antennas.
5. Ensure power is connected to the shelter.
6. Apply power.
  - a. Verify inputs and phases.
  - b. Hook up NATO slave cable.
  - c. Power up shelter and all ancillary equipment in proper sequence.
7. Configure communication nets.
8. Perform system check.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

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

Reference.

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

EQUIP-3471 6.0 730 B, R, M L

Goal. Troubleshoot faulty system component in a CS.

Requirement. With the aid of references and a faulty CS, perform the following:

1. Identify faulty component.
2. Open service request.
3. Receive and install component.
4. Perform communications check to verify systems return to operational status.
5. Document as required.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2C
2. TM-4700-15/1\_
3. MCBUL 3000
4. Associated equipment TM

#### 4.11.7 MAINTENANCE MANAGEMENT (MMGT) STAGE

4.11.7.1 Purpose. To instruct the trainee on MACCS unique electronic equipment.

4.11.7.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-3660 2.0 \* B \_\_\_\_\_ L

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

Requirement. With the aid of references, ensure the timely performance of all corrective maintenance actions per the references by performing the following:

1. Verify the induction process is followed.
2. Ensure correctness of the service request and NAVMC 1018.
3. Determine availability of resources.
4. Ensure proper troubleshooting of faulty item.
5. Ensure repair parts are ordered.
6. Ensure faulty item is repaired.
7. Ensure safety measures are adhered to during repair process.
8. Ensure quality control procedures are followed.
9. Verify Modification Instruction (MI) and Technical Instruction (TI).
10. Verify proper closeout of service request.
11. Ensure equipment record is updated.

Performance Standard. With the aid of references, conduct each step of the requirement without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2C
2. TM-4700-15/1\_
3. UM-4790.5
4. MCO P4400.16G
5. MCBUL 3000
6. Associated Equipment TM

MMGT-3661 2.0 1095 B, R, M L

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Goal. Validate SECREP assets.

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

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

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 4790.2C w/ch.1-2
2. MCO P4400.150E W/ERRATUM CH 1-2
3. FEDLOG

MMGT-3662 2.0 \* B L

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Goal. Assess maintenance funding requirements.

Requirement. With the aid of references and given equipment maintenance history, projected TEEP, and anticipated maintenance shortfalls, propose funding allocations for maintenance activities.

1. Identify and prioritize funding requirements.
2. Provide a maintenance funding request based on requirements and prior year utilization.
3. Provide an anticipated maintenance funding request based on the unit's TEEP.

Performance Standard. With the aid of reference, submit a budget request with justification to the Instructor for final approval without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4400.150\_
2. MCO P7100.8\_

#### 4.11.8 OPERATIONAL MANAGEMENT (OMGT) STAGE

4.11.8.1 Purpose. To provide the trainee advanced skills to be able to deploy TAOC and EW/C equipment to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

#### 4.11.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

OMGT-3710 1.0 1095 B, R, M L

Goal. Provide input to the operational plan.

Requirement. Given a simulation/operation and command guidance, provide input for the operation plan by performing the following:

1. Verify mission requirements.
2. Determine mission essential equipment.
3. Provide input for the Equipment Density List.
4. Assign maintenance personnel to meet mission requirements.
5. Verify communications plan supports mission execution.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Operations Order
2. MCRP 5.11.1

OMGT-3711 2.0 \* B L

Goal. Organize and assign crews for deployment.

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

1. Review an MSHARP report to determine individual Marine CMMR standing.
2. Assign maintenance personnel to crews dependent upon mission requirements. Factors include, but are not limited to:
  - Tactical licenses.
  - Active clearance.
  - Courier designations.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCWP 3-25.5
2. Unit TO

OMGT-3712 1.0 \* B L

---

Goal. Verify communications with external agencies.

Requirement. With the aid of reference and an operational system, verify communications with external agencies by performing the following:

1. Analyze guard chart.
2. Confirm radio assignment based on NET priority.
3. Verify radio checks are conducted IAW NET priority.
4. Pass control of operational NETs to operations crew.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. DASC CC, External agencies with radio assets to participate in training

Reference.

1. MCWP 3-25.5
2. ACEOI

OMGT-3713 8.0 1095 B, R, M MTAOM or CAC2S L

---

Goal. Deploy a communications system ISO operations.

Requirement. Given an operational requirement and commander's guidance, conduct the following:

1. Review operational requirements and develop an EDL.

2. Coordinate for support equipment as required.
3. Verify and complete Bill of Materials.
4. Establish float requirements as required.
5. Supervise pack-up of equipment and validate EDL accuracy.
6. Ensure correct execution of the load plan for equipment handling and safety.
7. Ensure maintenance crews are formed and prepared for deployment.
8. Emplace equipment IAW operational requirement/plan.
9. Integrate systems IAW the operational requirement/plan.
10. Verify communications as required.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 3120.6\_
2. Applicable TMs/UMs

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OMGT-3714 8.0 \* B L

Goal. Deploy a maintenance capability.

Requirement. Given an operational requirement and commander's guidance, conduct the following:

1. Review operational requirements and develop an EDL.
2. Coordinate for support equipment as required.
3. Verify and complete Bill of Materials.
4. Establish float requirements as required.
5. Supervise pack-up of equipment and validate EDL accuracy.
6. Ensure correct execution of the load plan for equipment handling and safety.
7. Ensure maintenance crews are formed and prepared for deployment.

Performance Standard. With the aid of references, complete each step listed above without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 3120.6\_
2. Applicable TMs/UMs

---

OMGT-3715 8.0 \* B L

Goal. Prepare system for embark.

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

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

Performance Standard. With the aid of reference, complete the requirement items without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO 3120.6\_ (Standard Embarkation Management System)
2. TM 12041A/15050A-OD/2 CAC2S System User Manual

#### 4.11.9 MARINE AIR CONTROL GROUP (MACG) STAGE

4.11.9.1 Purpose. To teach the trainee common communication and data flow within the MACG.

##### 4.11.9.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

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MACG-3750 1.0 \* B L

Goal. Identify TACC Communications information exchange requirements.

Requirement. Given the references, identify the following:

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

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3751 1.0 \* B L

---

Goal. Identify TAOC and EW/C communications information exchange requirements.

Requirement. Given the references, identify the following:

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

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3752 1.0 \* B L

---

Goal. Identify DASC communications information exchange requirements.

Requirement. Given the references, identify the following:

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

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3753 1.0 \* B L

---

Goal. Identify UAS Communications information exchange requirements.

Requirement. Given the references, identify the following:

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

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit

4. MCBUL 3000

MACG-3754 1.0 \* B L

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Goal. Identify LAAD Communications information exchange requirements.

Requirement. Given the references, identify the following:

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

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4
3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3755 1.0 \* B L

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Goal. Identify MATC communications information exchange requirements.

Requirement. Given the references, identify the following:

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

Performance Standard. Pass an exam with 80% accuracy.

Instructor. SI, WTI

Prerequisite. None.

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCRP 5-12D
2. MCWP 3-25.4

3. Approved Core METL applicable to the unit
4. MCBUL 3000

MACG-3756 2.0 1095 B, R, M \_\_\_\_\_ L

Goal. Draw a Communications Diagram for the agencies within the MACG.

Requirement. Given the references and operational diagrams, draw a communications diagram depicting the information exchange requirements for the following agencies:

1. TACC.
2. TAOC.
3. DASC.
4. MATC.
5. UAS.
6. LAAD.

Performance Standard. Pass an exam. Draw a communications diagram without error. Minor errors corrected by the trainee are acceptable.

Instructor. SI, WTI

Prerequisite. 3750, 3751, 3752, 3753, 3754, 3755

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

- 1.MCWP 3-2
- 2.MCWP 3-25.4

#### 4.12 CORE PLUS TRAINING (4000)

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

#### 4.12.2 General.

4.12.2.1 Prerequisiste. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

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





for the Command System Tactical, AN/MSQ-143  
6. TM 11406A-QRG Quick Reference Guide, AN/MSQ-143

EQUIP-4426 6.0 730 B, R, M L

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Goal. Set-up the Composite Tracking Network (CTN).

Requirement. As a member of a CTN crew, given a CTN, PPE, and the reference, complete the following steps:

1. Unpack CTN.
2. Ground CTN and generator.
3. Connect power cables. .
4. Employ generator.
5. Erect antennas and connect RF cables.
6. Connect fiber optic cables.
7. Energize the system.
8. Configure CTN for operations.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 9406-15 Grounding Procedures Manual
2. MTAOM Operations Maintenance Manual

EQUIP-4427 6.0 730 B, R, M L

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Goal. Tear-down the Composite Tracking Network (CTN).

Requirement. As a member of a CTN crew, given a CTN, PPE, and the reference, complete the following steps:

1. Shutdown CTN.
2. Remove and store classified hardware.
3. Remove Grounding cables/braids.
4. Disconnect Air Conditioners.
5. Disconnect power cables. .

6. Take down antennas and disconnect RF cables.
7. Disconnect fiber optic cables.
8. pack-up CTN.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Instructor. BI, SI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. TM 9406-15 Grounding Procedures Manual
2. MTAOM Operations Maintenance Manual

EQUIP-4466 6.0 \* B L

Goal. Perform maintenance within the CTN.

Requirement. Given the references, one CTN, appropriate tools, and proper TMDE, isolate and repair one fault for each of the equipment groups listed below within the CTN:

1. Sensor Fusion Subsystem,.
2. Communications Subsystem,.
3. Power Subsystem.

Performance Standard. Perform the requirement to a proficient level (correct, efficient and skillful execution of tasks without hesitation requiring minimal input from the instructor). Minor errors corrected by the trainee are acceptable.

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. CTN manual

4.13 INSTRUCTOR UNDER TRAINING (IUT) (5000)

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

4.13.2 General.

4.13.2.1 Prerequisiste. None

4.13.2.2 Admin Notes.

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

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

(1) Basic Instructor (BI)

(2) Senior Instructor (SI)

(3) The MAWTS-1 C3 Course catalog contains the training requirements for the above listed instructors. The catalog is located at the MAWTS-1 website, <https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>.

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

INSTRUCTOR	Event Training, Evaluation and Approval
BI	Core Skill events in which current and proficient.
SI	Core Skill, Mission Skill, and Core Plus events in which current and proficient.

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

PAR NO.	STAGE NAME
4.13.3	INSTRUCTOR UNDER TRAINING (IUT)

4.13.3 INSTRUCTOR UNDER TRAINING (IUT) STAGE

4.13.3.1 Purpose. To train Aviation Communication System Technicians in the

fundamentals of instructing and training processes.

4.13.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

T&R CODE	EVENT DESCRIPTION	INSTRUCTOR
5000	Introduce principles of instruction	BI
5010	Understand the structure of an event	BI
5020	Conduct a period of instruction on a core skill event	BI
5100	Understand the Aviation Training and Readiness (T&R) Program	SI
5110	Understand the applicable community T&R program	SI
5120	Understand T&R administration	SI
5130	Develop a training plan	SI

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

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

4.14.2 General.

4.14.2.1 Prerequisiste. None

4.14.2.2 Admin Notes.

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

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

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

PAR NO.	STAGE NAME
4.14.3	QUALIFICATION (QUAL)

4.14.4	CERTIFICATIONS (CERT)
4.14.5	DESIGNATION (DESG)
4.14.6	SCHOOL CODES (SCHL)

4.14.3 QUALIFICATIONS (QUAL) STAGE

4.14.3.1 Purpose. To provide for basic and advanced technician qualifications.

4.14.3.2 General

Prerequisite. Refer to the Core Skill and Mission Skill phases for qualification events.

Admin Notes. Policies and rules for attaining and maintaining qualifications are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. None

QUAL-6100 0.5 \* B L

Goal. Qualification as an Aviation Communications Systems Basic Technician (ACSBT).

Requirement. Complete required Aviation Communication Systems Basic Technician training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit TO/E

QUAL-6101 0.5 \* B L

Goal. Qualification as an Aviation Communications Systems Advanced Technician (ACSAT).

Requirement. Complete required Aviation Communications Systems

Advanced Technician training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit TO/E

#### 4.14.4 CERTIFICATIONS (CERT) STAGE

4.14.4.1 Purpose. To provide for certifications of Information Assurance Work Force personnel. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a certification are current prior to approving that certification. If prerequisite R-coded events are delinquent, the individual shall update those events.

#### 4.14.4.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining certification are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. NONE.

CERT-6200    4.0    \*    B    L

Goal. Certification as a COMPTIA A+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA 220-801 and COMPTIA 220-802. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. DOD 8570.\_

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CERT-6201 4.0 \* B L

Goal. Certification as a COMPTIA Network+ Technician.

Requirement. Complete the required industry certification exam, COMPTIA N10-005. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2259, 2260, 2261, 2262, 2263, 3282

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. DOD 8570.\_

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CERT-6202 4.0 \* B L

Goal. Certification as a COMPTIA Security+ Technician.

Requirement. Complete the required industry certification exams, COMPTIA SY0-301. Be recommended for certification by an SI or WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2264, 2265, 2266, 2267, 2268, 2269, 3283

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. DOD 8570.\_

4.14.5 DESIGNATIONS (DESG) STAGE

4.14.5.1 Purpose. To provide for designation of combat leaders and instructors. Designations are command specific and expire when an individual transfers out of a command. In order to ensure proficiency is maintained, specific events throughout this syllabus have been R-coded. The gaining command shall review the IPR to ensure prerequisite R-coded events for a designation are current prior to approving that designation. If prerequisite R-coded events are delinquent, the individual shall update those events.

4.14.5.2 General

Prerequisite. None

Admin Notes. Policies and rules for attaining and maintaining designations are detailed in the Aviation T&R Program Manual and this Manual.

Crew Requirements. None

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DESG-6301    1.0    \*    B    L

Goal. Designation as a Tactical Data Systems Crew Chief (TDSCC).

Requirement. Complete required Tactical Data Systems Crew Chief training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2243, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2694, 3470, 3471, 3660, 3661, 3710, 3711, 3712, 3713, 3715, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit TO/E

DESG-6302 1.0 \* B L

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Goal. Designation as a Tactical Data Systems Maintenance Chief (ACSMC).

Requirement. Complete required Tactical Data Systems Maintenance Chief training POI. Be recommended for qualification by a WTI and approved in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2243, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2694, 3470, 3471, 3660, 3662, 3710, 3711, 3712, 3713, 3714, 3715, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit TO/E

DESG-6320 1.0 \* B L

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Goal. Designation as a Basic Instructor (BI).

Requirement. Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 5000, 5010, 5020, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14\_

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DESG-6321 1.0 \* B L

Goal. Designation as a Senior Instructor (SI).

Requirement. Be recommended for designation by a WTI and designated in writing by the commanding officer.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2243, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference. NAVMC 3500.14\_

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DESG-6340 1.0 \* B L

Goal. Designation as a Maintenance Safety NCO.

Requirement. Perform all duties associated with the Maintenance Safety NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2235, 2236

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP

DESG-6341 1.0 \* B L

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Goal. Designation as a Maintenance HAZMAT NCO.

Requirement. Perform all duties associated with the Hazmat NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2235, 2236

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP

DESG-6342 1.0 \* B L

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Goal. Designation as a Maintenance Publications NCO.

Requirement. Perform all duties associated with the Publications NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2234

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_

DESG-6343 1.0 \* B L

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Goal. Designation as a Maintenance Tools NCO.

Requirement. Perform all duties associated with the Tools NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2233

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_

DESG-6344 1.0 \* B L

Goal. Designation as a Maintenance Calibrations NCO.

Requirement. Perform all duties associated with the Calibrations NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2231

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_

DESG-6345 1.0 \* B L

Goal. Designation as a Maintenance Modifications NCO.

Requirement. Perform all duties associated with the Modifications NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2232, 2234

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_

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DESG-6346 1.0 \* B L

Goal. Designation as a Maintenance Embarkation NCO.

Requirement. Perform all duties associated with the Embarkation NCO IAW the reference for a period no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230, 2237

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP

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DESG-6347 1.0 \* B L

Goal. Designation as a Marine Corps Integrated Maintenance Management System (MIMMS) NCO.

Requirement. Perform all duties associated with the Marine Corps Integrated Maintenance Management System (MIMMS) NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2159, 2230, 2602

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. MCO P4790.2\_

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DESG-6348 1.0 \* B L

Goal. Designation as a Maintenance Training NCO.

Requirement. Perform all duties associated with the Training NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2230

Ordinance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP

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DESG-6349 1.0 \* B L

Goal. Designation as a Maintenance Quality Control (QC) NCO.

Requirement. Perform all duties associated with the Quality Control NCO IAW the reference for a period of no less than 90 days. Be recommended for designation by the SI or WTI and designated by Commanding Officer or Maintenance Officer.

Performance Standard. N/A

Instructor. SI, WTI

Prerequisite. 2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028

Ordnance. None.

Range. None.

External Syllabus Support. None.

Reference.

1. Unit SOP

#### 4.14.6 SCHOOL CODES (SCHL) STAGE

4.14.6.1 Purpose. To provide tracking codes for schools that are pertinent to the training of the 5939 in the skill progression of the Marine.

#### 4.14.6.2 General

Prerequisite. NONE.

Admin Notes. Policies and prerequisites for attending the listed schools are maintained within MCTIMS.

Crew Requirements. NONE.

T&R CODE	COURSE NAME	LOCATION	CID/CIN
SCHL-6020	Link 16 Basics Course (JT-100)	Joint Knowledge Online (JKO)	
SCHL-6021	Intro to Multi TDL Network (JT-101)	Fort Bragg, NC	N/A
SCHL-6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	Fort Bragg, NC	A36L6Z1
SCHL-6023	Link 16 Joint Interoperability Course (US-109)	Joint Knowledge Online (JKO)	N/A
SCHL-6024	Multi TDL Planner Course (JT-201)	Fort Bragg, NC	A05KHY1
SCHL-6025	Link 16 Unit Manager (LUM) Course (JT-220)	Fort Bragg, NC	N/A

#### 4.15 MISSION ESSENTIAL TASK (MET) PHASE (7000)

4.15.1 Purpose. This phase takes CMMR proficient Marines from multiple PMOS, puts them in CMMR representative crews, and trains them as combat effective teams in combined events.

#### 4.15.2 General

4.15.2.1 Prerequisite. Marines must either be CMMR crew position or non-aviation PMOS proficient to train in this phase. For those events requiring combat leaders, only Marines currently designated as such can train in this phase.

4.15.2.2 Admin Notes. Prerequisites for this phase of training cannot be waived. Multiple events can be trained at the same time as long as separate evaluations are being conducted.

4.15.2.3 Stages. The following stages are included in the Mission Essential Task (MET) Phase of training.

PAR NO.	STAGE NAME

4.15.3	CONDITION (COND)
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4.15.3 CONDITION (COND) STAGE

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

4.15.3.2 General

Prerequisite. If an event requires prerequisites in addition to those listed for the MET Phase, they will be covered in the individual event.

Admin Notes. All events in this stage will require the following administrative/operational documents to be identified or created:

1. Letter Of Intent (LOI)
2. Personnel Roster
3. Bill Of Material (BOM)
4. Equipment Density List (EDL)

Crew Requirements. This stage requires that all crew members and combat leaders be qualified/designated and proficient (current) in the position they are assigned for the following events. Crews shall be task organized to meet the mission.

COND-7500 50.0 365 B, R, M C2 System L/S

Goal. Employ a TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, and an operation plan's initiating order, employ a TAOC to include the following:

1. Conduct Mission Analysis
2. Review Operational Planning Documents
3. Identify required support personnel
4. Identify equipment requirements
5. Conduct an RSOP
6. Identify, create, and finalize administrative documents supporting the operation
7. Coordinate with external agencies
8. Conduct embarkation, and retrograde of personnel and equipment
9. Maintain accountability of personnel
10. Conduct TAOC operations
11. Conduct crew evaluations
12. Compile After-Action items

Performance Standard. Perform the requirement items listed and conduct TAOC operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. Minimum of two CMMR TAOC Crews

Ordnance. None.

Range. Range space capable of hosting itinerant air traffic, combat air patrols, air-to-air refueling tracks, HVAA tracks

External Syllabus Support. TAOC Detachment Commander and representatives from the S-1, S-2, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets.

Reference.

1. U-TAOC-PCL-03862, TAOC Pocket Checklist
2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

COND-7505 10.0 365 B, R, M L/S

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Goal. Conduct a Reconnaissance, Selection, and Occupation of Position (RSOP) for the TAOC.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL) and an operation plan's initiating order, conduct a RSOP for TAOC operations to include the following:

1. Conduct a Map Survey selecting primary and alternate sites
2. Identify environmental concerns that may affect TAOC communication
3. Coordinate with higher to provide TAOC requirements
4. Coordinate site security, camouflage, dispersion, and trafficability
5. Identify locations for emplacement of communications and support equipment
6. Coordinate priorities for equipment emplacement
7. Identify echelon considerations
8. Identify Advanced Party/RSOP Team
9. Occupy the site
10. Emplace the TAOC

Performance Standard. Perform the requirement items. The RSOP team will be prepared to discuss decisions/actions.

Instructor. C3 WTI

Prerequisite. None.

Ordnance. None.

Range. None.

External Syllabus Support. TAOC Detachment Commander, TAOC Crew Chief, security team, Representatives from the S-2, S-4, S-6

Reference.

1. U-TAOC-PCL-03862 TAOC Pocket Checklist
2. MCWP 3-25.7, TAOC Handbook
3. Squadron SOP

4.16 AVIATION CAREER PROGRESSION MODEL (8000).

4.16.1 Purpose. To enhance professional understanding of Marine Aviation and the MAGTF, and to ensure individuals possess the requisite skills to fill battle command and battle staff positions in support of the ACE and the MAGTF in a joint environment. The focus of training in the Aviation Career Progression Model (ACPM) is on academic events in the following areas:

Marine Air Command and Control System (MACCS)  
Aviation Ground Support  
Joint Air Operations  
ACE Battle Staff  
MAGTF  
Seabased Operations  
Combatant Commander Organizations

4.16.2 General. The ACPM is intended to be an integrated series of academic events contained within each phase of training. Accordingly, ACPM academic events are like any other academic event in that they serve as pre-requisites to selected flight events or stages. Additionally, several ACPM academic events are integrated as prerequisites for flight leadership syllabi.

ACPM events may be conducted in group session with an assigned instructor teaching the period of instruction or they may be accomplished by self-paced instruction.

MAWTS-1 is responsible for the update and validity of the ACPM periods of instruction. In the future, courses may be consolidated or revised to meet changing requirements. Refer to the MAWTS-1 ACPM link for the current ACPM program of instruction:

<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/Aviation%20Career%20Progression%20Model/Forms/AllItems.aspx>

Completed events shall be manually logged and tracked in M-SHARP.

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

STAGE	TRNG CODE	T&R DESCRIPTION		ACAD TIME	TO BE COMPLETED DURING
ACPM	8000	<b>MACCS</b>		1	2000 PHASE
ACPM	8001	MARINE AIR COMMAND AND CONTROL SYSTEM		4	2000 PHASE
ACPM	8002	TACTICAL AIR COMMAND CENTER (TACC)		4	2000 PHASE
ACPM	8003	DIRECT AIR SUPPORT CENTER (DASC)		4	2000 PHASE
ACPM	8004	TACTICAL AIR OPERATIONS CENTER (TAOC)		4	2000 PHASE
ACPM	8005	MARINE AIR TRAFFIC CONTROL (MATC)		4	2000 PHASE
ACPM	8006	LOW ALTITUDE AIR DEFENSE (LAAD)		4	2000 PHASE
ACPM	8007	Marine Unmanned Aerial Vehicle Squadron (VMU)		4	2000 PHASE
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)		4	2000 PHASE
ACPM	8020	<b>ACE</b>		1	2000 PHASE
ACPM	8021	AVIATION OPERATIONS		4	2000 PHASE
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES		4	2000 PHASE
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)		4	2000 PHASE
ACPM	8024	ASSAULT SUPPORT		4	2000 PHASE
ACPM	8025	AIR RECONNAISSANCE		4	2000 PHASE

ACPM	8026	ELECTRONIC WARFARE		4	2000 PHASE
ACPM	8027	ANTI-AIR WARFARE		4	2000 PHASE
ACPM	8028	AVIATION GROUND SUPPORT		4	2000 PHASE
ACPM	8040	<b>THREAT</b>		1	3000 PHASE
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	3000 PHASE
ACPM	8060	<b>MAGTF</b>		1	4000 PHASE
ACPM	8061	GROUND COMBAT OPERATIONS		4	4000 PHASE
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	4000 PHASE
ACPM	8063	MAGTF COMMAND AND CONTROL		4	4000 PHASE
ACPM	8064	MAGTF COMMUNICATIONS		4	4000 PHASE
ACPM	8065	PHASING CONTROL ASHORE		4	4000 PHASE
ACPM	8066	INFORMATION MANAGEMENT		4	4000 PHASE
ACPM	8067	UAS SUPPORT OF THE MAGTRF		4	4000 PHASE
ACPM	8080	<b>JOINT AIR OPERATIONS</b>		1	4000 PHASE
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	4000 PHASE
ACPM	8082	THEATER AIR CROUND SYSTEM (TAGS)		4	4000 PHASE
ACPM	8083	JOINT FIRE SUPPORT		4	4000 PHASE
ACPM	8084	CLOSE AIR SUPPORT		4	4000 PHASE
ACPM	8085	JOINT TARGETING		4	4000 PHASE
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	4000 PHASE
ACPM	8087	JOINT AIRSPACE CONTROL		4	4000 PHASE
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	4000 PHASE
TOTAL ACPM STAGE				40	145

4.17 T&R ATTAIN AND MAINTAIN TABLES

TAOC MAINTENANCE MOS 5939											
CORE/MISSION/CORE PLUS ATTAIN AND MAINTAIN MATRIX											
CORE SKILL (2000 Phase)											
T&R EVENT INFORMATION				BASIC POI		REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Conduct an SL-3 inventory.	CMN	2150	*	CMN	2150					-	-
Identify the purpose of Preventive Maintenance Checks and Services (PMCS).	CMN	2151	*	CMN	2151					-	-

Submit a Product Quality Deficiency Report (PQDR).	CMN	2152	*	CMN	2152						-	-
Demonstrate an earth ground installation.	CMN	2153	*	CMN	2153					2173		-
Describe the characteristics of unit T/E generators.	CMN	2154	*	CMN	2154						-	-
Describe T/E shelters.	CMN	2155	*	CMN	2155						-	-
Emplace shelter.	CMN	2156	*	CMN	2156					2155		-
Cable shelter for power.	CMN	2157	*	CMN	2157					2156		-
Demonstrate how to maintain a tool box.	CMN	2158	*	CMN	2158					2150, 2151		-
Initiate a service request.	CMN	2159	*	CMN	2159						-	-
Utilize an oscilloscope.	TMDE	2171	*	TMDE	2171					2172		-
Demonstrate the use of a signal generator.	TMDE	2172	*	TMDE	2172						-	-
Utilize a Ground Tester.	TMDE	2173	*	TMDE	2173						-	-
Utilize a multimeter.	TMDE	2175	*	TMDE	2175						-	-
Measure an RF signal with a spectrum analyzer.	TMDE	2176	*	TMDE	2176						-	-
Utilize a wattmeter.	TMDE	2177	*	TMDE	2177						-	-
Utilize an Optical Time Domain Reflectometer (OTDR).	TMDE	2178	*	TMDE	2178						-	-
Utilize a radio test set.	TMDE	2179	*	TMDE	2179						-	-
Describe proper handling and storage of classified materials.	COMSEC	2190	365	COMSEC	2190	COMSEC	2190	COMSEC	2190		-	-
State the physical security requirements for classified areas.	COMSEC	2191	365	COMSEC	2191	COMSEC	2191	COMSEC	2191		-	-
Create a classified area physical security diagram.	COMSEC	2192	365	COMSEC	2192	COMSEC	2192	COMSEC	2192	2191		-

Conduct classified material inventory.	COMSEC	2193	365	COMSEC	2193	COMSEC	2193	COMSEC	2193	2190	-
Extract key material information from EKMS COMSEC callout.	COMSEC	2194	*	COMSEC	2194					2190	-
Utilize a Common Fill Device.	COMSEC	2195	365	COMSEC	2195	COMSEC	2195	COMSEC	2195	2190	-
Ensure CMCC handling procedures are followed.	COMSEC	2196	*	COMSEC	2196					2190	-
Ensure EKMS material handling procedures are followed.	COMSEC	2197	*	COMSEC	2197					2190	-
Ensure CCI material handling procedures are followed.	COMSEC	2198	*	COMSEC	2198					2190	-
Ensure physical security of classified areas.	COMSEC	2199	365	COMSEC	2199	COMSEC	2199	COMSEC	2199	2191, 2192	-
State the purpose of Automated Data Processing Equipment (ADPE).	FAM	2211	*	FAM	2211					2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Define Tactical Data Links characteristics.	FAM	2213	*	FAM	2213					2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-

Describe MTAOM equipment.	FAM	2214	*	FAM	2214				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Describe Commanders Tactical Terminal (CTT) equipment.	FAM	2215	*	FAM	2215				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Identify the Intelligence Operations Workstation (IOW).	FAM	2216	*	FAM	2216				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Describe C2 Applications.	FAM	2218	*	FAM	2218				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-

Familiarization with LRR equipment.	FAM	2219	*	FAM	2219				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Familiarization with MRR equipment.	FAM	2220	*	FAM	2220				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Describe the Identification Friend or Foe (IFF) MK XII interrogator system.	FAM	2221	*	FAM	2221				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Describe TACLAN.	FAM	2222	*	FAM	2222				2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-

Identify the major components of the Composite Tracking Network (CTN).	FAM	2223	*	FAM	2223					2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
State the maintenance Collateral Duties (CD).	CD	2230	*	CD	2230					-	-
Identify the Maintenance Calibrations Program.	CD	2231	*	CD	2231					2230	-
Identify the Maintenance Modifications Program.	CD	2232	*	CD	2232					2230	-
Manage the Tool Control Program.	CD	2233	*	CD	2233					2230	-
Identify the Maintenance Publications Library.	CD	2234	*	CD	2234					2230	-
Identify major Maintenance Safety Program elements.	CD	2235	*	CD	2235					2230	-
State the purpose of the Material Safety Data Sheet (MSDS) and the MSDS compliance center.	CD	2236	*	CD	2236					2230	-
Identify the key elements of the Maintenance Embarkation Program.	CD	2237	*	CD	2237					2230	-
Identify the equipment record jacket.	CD	2238	*	CD	2238					2230	-

Perform Quality Control Procedures.	CD	2239	1460	CD	2239	CD	2239	CD	2239	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-
Identify the Maintenance Training program.	CD	2243	*	CD	2243					2230	-
Explain PC hardware.	IAWFAT	2250	*	IAWFAT	2250					-	-
Explain networking concepts.	IAWFAT	2251	*	IAWFAT	2251					-	-
Explain laptop features and characteristics.	IAWFAT	2252	*	IAWFAT	2252					-	-
Explain printer features and characteristics.	IAWFAT	2253	*	IAWFAT	2253					-	-
Explain operational procedures.	IAWFAT	2254	*	IAWFAT	2254					-	-
Explain operating systems.	IAWFAT	2255	*	IAWFAT	2255					-	-
Explain security.	IAWFAT	2256	*	IAWFAT	2256					-	-
Explain Mobile Devices.	IAWFAT	2257	*	IAWFAT	2257					-	-
Explain Troubleshooting.	IAWFAT	2258	*	IAWFAT	2258					-	-
Explain Networking Concepts.	IAWFNT	2259	*	IAWFNT	2259					-	-
Explain Network Installation and Configuration.	IAWFNT	2260	*	IAWFNT	2260					-	-
Explain Network Media and Topologies.	IAWFNT	2261	*	IAWFNT	2261					-	-

Explain Network Management.	IAWFNT	2262	*	IAWFNT	2262						-	-
Explain Network Security.	IAWFNT	2263	*	IAWFNT	2263						-	-
Explain Network Security.	IAWFST	2264	*	IAWFST	2264						-	-
Explain Operational Security.	IAWFST	2265	*	IAWFST	2265						-	-
Explain threats and vulnerabilities.	IAWFST	2266	*	IAWFST	2266						-	-
Explain cryptography.	IAWFST	2267	*	IAWFST	2267						-	-
Explain access control and identity management.	IAWFST	2268	*	IAWFST	2268						-	-
Explain application, data and host security.	IAWFST	2269	*	IAWFST	2269						-	-
Conduct Maintenance on the AN/USQ-140(V)2 Multifunctional Information Distribution System (MIDS).	EQUIP	2380	*	EQUIP	2380						-	-
Identify the major components of the AN/USQ-140(V)2 Multifunctional Information Distribution System (MIDS).	EQUIP	2381	*	EQUIP	2381						-	-
Describe HF, VHF, UHF, SATCOM radio characteristics.	EQUIP	2384	*	EQUIP	2384						-	-
Identify the characteristics of unit T/E communications systems.	EQUIP	2385	*	EQUIP	2385						-	-
Erect T/E antennas.	EQUIP	2386	*	EQUIP	2386						-	-
Install radios in T/E communication systems.	EQUIP	2387	*	EQUIP	2387						-	-

Interface an external radio into T/E communication systems.	EQUIP	2388	*	EQUIP	2388						-	-
Setup the Processing Display System (PDS).	EQUIP	2389	*	EQUIP	2389						-	-
Configure MBVR for plain text (PT) operations.	EQUIP	2390	730	EQUIP	2390	EQUIP	2390	EQUIP	2390		-	-
Configure AN/VRC-104 for plain text (PT) operations.	EQUIP	2391	730	EQUIP	2391	EQUIP	2391	EQUIP	2391		-	-
Configure the MBVR and the AN/VRC-104 for single channel operations, Cipher Text (CT).	EQUIP	2392	730	EQUIP	2392	EQUIP	2392	EQUIP	2392		-	-
Configure the MBVR for SATCOM operation.	EQUIP	2393	730	EQUIP	2393	EQUIP	2393	EQUIP	2393		-	-
Configure the MBVR radio for enhanced operation.	EQUIP	2394	730	EQUIP	2394	EQUIP	2394	EQUIP	2394		-	-
Configure AN/VRC-104 radio for Automatic Link Establishment (ALE).	EQUIP	2395	730	EQUIP	2395	EQUIP	2395	EQUIP	2395		-	-
Demonstrate field expedient antenna techniques.	EQUIP	2396	*	EQUIP	2396						-	-
Perform PMCS on AN/VRC 104.	EQUIP	2397	*	EQUIP	2397						-	-
Perform PMCS on MBVR.	EQUIP	2398	*	EQUIP	2398						-	-
Perform PMCS on the AN/VRC 110.	EQUIP	2399	*	EQUIP	2399						-	-
Perform CM on AN/VRC-104.	EQUIP	2400	*	EQUIP	2400						-	-
Perform CM on MBVR.	EQUIP	2401	*	EQUIP	2401						-	-
Perform CM on AN/VRC-110.	EQUIP	2402	*	EQUIP	2402						-	-
Perform CM on the CS system.	EQUIP	2403	*	EQUIP	2403						-	-

Conduct maintenance on the HF data radio set.	EQUIP	2404	*	EQUIP	2404						-	-
Perform PMCS on AN/GRC-171.	EQUIP	2405	*	EQUIP	2405						-	-
Perform CM on AN/GRC-171.	EQUIP	2406	*	EQUIP	2406						-	-
Ensure preparatory measures are taken for disposition of equipment.	MMGT	2600	*	MMGT	2600					2150		-
Create a Preventive Maintenance Checks and Services (PMCS) schedule.	MMGT	2601	*	MMGT	2601					2151		-
Reconcile Global Combat Supply System (GCSS) reports.	MMGT	2602	*	MMGT	2602					2159		-
Identify the SECREP management process.	MMGT	2603	*	MMGT	2603						-	-
Define RA with regards to O&M funds.	MMGT	2604	*	MMGT	2604						-	-
Define PE with regards to O&M funds.	MMGT	2605	*	MMGT	2605						-	-
Induct new equipment into service.	MMGT	2606	*	MMGT	2606					2150, 2159, 2231, 2238		-
Phase out equipment.	MMGT	2607	*	MMGT	2607					2150		-
Inspect maintenance functional areas.	MMGT	2608	*	MMGT	2608					2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238		-
State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	MMGT	2609	*	MMGT	2609						-	-
Identify the Marine Corps Urgent Needs Process (MCUNP).	MMGT	2610	*	MMGT	2610						-	-

Conduct a Consolidated Memorandum Receipt (CMR) Review.	MMGT	2611	*	MMGT	2611					-	-
Verify inventory control procedures are implemented.	MMGT	2612	*	MMGT	2612					2150, 2159	-
Identify the functions of maintenance management.	MMGT	2613	*	MMGT	2613					2602, 2603, 2609, 2611	-
Ensure equipment is inducted into maintenance cycle.	MMGT	2614	*	MMGT	2614					2159	-
Identify the purpose of communication planning documents.	OMGT	2680	*	OMGT	2680					-	-
Determine required equipment to support a mission.	OMGT	2681	365	OMGT	2681	OMGT	2681	OMGT	2681	-	-
Conduct communications portion of a site survey.	OMGT	2682	1460	OMGT	2682	OMGT	2682	OMGT	2682	-	-
Identify crew requirements and write a crew schedule.	OMGT	2683	*	OMGT	2683					-	-
Determine supply support requirements.	OMGT	2684	*	OMGT	2684					2691	-
Develop an embarkation plan.	OMGT	2685	*	OMGT	2685					2687	-
Write a packing list.	OMGT	2686	1460	OMGT	2686	OMGT	2686	OMGT	2686	-	-
Write an Equipment Density List (EDL).	OMGT	2687	*	OMGT	2687					-	-
Identify power requirements.	OMGT	2688	365	OMGT	2688	OMGT	2688	OMGT	2688	-	-
Identify spectrum management procedures.	OMGT	2689	*	OMGT	2689					-	-

Fill out a Logistics Support Request (LSR).	OMGT	2690	*	OMGT	2690					-	-
Submit a Bill of Material (BOM) request.	OMGT	2691	*	OMGT	2691					-	-
Describe common agency doctrinal nets.	OMGT	2692	*	OMGT	2692					-	-
Draw a site diagram for the TAOC.	OMGT	2694	*	OMGT	2694					-	-
MISSION SKILL (3000 Phase)											
T&R EVENT INFORMATION	BASIC POI					REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		
Explain concepts included in A+ exam 220-801.	IAWFAT	3280	1095	IAWFAT	3280	IAWFAT	3280	IAWFAT	3280	2250, 2251, 2252, 2253, 2254	-
Explain concepts included in A+ exam 220-802.	IAWFAT	3281	1095	IAWFAT	3281	IAWFAT	3281	IAWFAT	3281	2255, 2256, 2257, 2258	-
Explain concepts included in Network+ exam N10-005.	IAWFNT	3282	1095	IAWFNT	3282	IAWFNT	3282	IAWFNT	3282	2259, 2260, 2261, 2262, 2263	-
Explain concepts included in Security + exam SY0-301.	IAWFST	3283	1095	IAWFST	3283	IAWFST	3283	IAWFST	3283	2264, 2265, 2266, 2267, 2268, 2269	-
Set-up the CS.	EQUIP	3470	730	EQUIP	3470	EQUIP	3470	EQUIP	3470	-	-
Troubleshoot faulty system component in a CS.	EQUIP	3471	730	EQUIP	3471	EQUIP	3471	EQUIP	3471	-	-
Ensure the corrective maintenance repair process is being conducted.	MMGT	3660	*	MMGT	3660					-	-
Validate SECREP assets.	MMGT	3661	1095	MMGT	3661	MMGT	3661	MMGT	3661	-	-
Assess maintenance funding requirements.	MMGT	3662	*	MMGT	3662					-	-
Provide input to the operational plan.	OMGT	3710	1095	OMGT	3710	OMGT	3710	OMGT	3710	-	-
Organize and assign crews for deployment.	OMGT	3711	*	OMGT	3711					-	-

Verify communications with external agencies.	OMGT	3712	*	OMGT	3712					-	-
Deploy a communications system ISO operations.	OMGT	3713	1095	OMGT	3713	OMGT	3713	OMGT	3713	-	-
Deploy a maintenance capability.	OMGT	3714	*	OMGT	3714					-	-
Prepare system for embark.	OMGT	3715	*	OMGT	3715					-	-
Identify TACC Communications information exchange requirements.	MACG	3750	1095	MACG	3750	MACG	3750	MACG	3750	-	-
Identify TAOC and EW/C communications information exchange requirements.	MACG	3751	1095	MACG	3751	MACG	3751	MACG	3751	-	-
Identify DASC communications information exchange requirements.	MACG	3752	1095	MACG	3752	MACG	3752	MACG	3752	-	-
Identify UAS Communications information exchange requirements.	MACG	3753	1095	MACG	3753	MACG	3753	MACG	3753	-	-
Identify LAAD Communications information exchange requirements.	MACG	3754	1095	MACG	3754	MACG	3754	MACG	3754	-	-
Identify MATC communications information exchange requirements.	MACG	3755	1095	MACG	3755	MACG	3755	MACG	3755	-	-
Draw a Communications Diagram for the agencies within the MACG.	MACG	3756	1095	MACG	3756	MACG	3756	MACG	3756	3750, 3751, 3752, 3753, 3754, 3755	-
CORE PLUS SKILL (4000 Phase)											
T&R EVENT INFORMATION	BASIC POI					REFRESHER POI		MAINTAIN PROFICIENCY		PREREQS	CHAINING
T&R DESCRIPTION	STAGE	CODE	REFLY	STAGE	CODE	STAGE	CODE	STAGE	CODE		

Perform operator/crew maintenance on the Composite Tracking Network (CTN)	EQUIP	4111	*	ADST	4111					2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Configure the AN/MSQ-143 Composite Tracking Network (CTN) for Operation	EQUIP	4114	*	ADST	4114					2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Set-up the Composite Tracking Network (CTN)	EQUIP	4426	730	EQUIP	4426	EQUIP	4426	EQUIP	4426	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Tear-down the Composite Tracking Network (CTN)	EQUIP	4427	730	EQUIP	4427	EQUIP	4427	EQUIP	4427	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-
Perform maintenance within the CTN	EQUIP	4466	*	EQUIP	4466					2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-

4.18 T&R SYLLABUS MATRIX

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
<b>CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)</b>																			
<b>AIR SCHOOLS (AIRS) STAGE</b>																			
AIRS	1030	Maintain the Communication System (CS).	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1031	Maintain voice circuits within the Common Aviation Command and Control System (CAC2S)	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1032	Set-up the Communication System (CS) for operation.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1033	Initialize voice circuits within the Common Aviation Command and Control System (CAC2S).	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1034	Configure the CAC2S voice network.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1035	Maintain the DSAN network.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1036	Configure the Distributed Scalable AccessNet (DSAN).	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1037	Configure AN/VRC-103.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1038	Configure AN/VRC-104.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1039	Maintain the AN/GRC-256.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1040	Maintain the AN/GRC-171B(V)4.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1041	Operate common fill devices.	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1042	Describe the characteristics of antennas used within the Marine Air Command and Control Systems (MACCS).	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
AIRS	1120	Describe functions of the Marine Air Command and Control System (MACCS).	B	E	G	-	-	D	*	0	0	0.0	-	-	-	-	-	-	
<b>TOTAL AIR SCHOOLS (AIRS) STAGE</b>										14	0	0	0	0	0.0				
<b>TOTAL CORE SKILL INTRODUCTION PHASE TRAINING (1000 PHASE)</b>										14	0	0	0	0	0.0				

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION												
<b>MACCS MAINTENANCE COMMON (CMN)</b>																			
CMN	2150	Conduct an SL-3 inventory.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
CMN	2151	Identify the purpose of Preventive Maintenance Checks and Services (PMCS).	B	-	L	-	-	-	*	0	0	0	0	1.5	-	-	-	-	-
CMN	2152	Submit a Product Quality Deficiency Report (PQDR).	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
CMN	2153	Demonstrate an earth ground installation.	B	-	L	-	-	-	*	0	0	0	0	3.0	2173	-	-	-	-
CMN	2154	Describe the characteristics of unit T/E generators.	B,R	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
CMN	2155	Describe T/E shelters.	B	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
CMN	2156	Emplace shelter.	B	-	L	-	-	-	*	0	0	0	0	2.0	2155	-	-	-	-
CMN	2157	Cable shelter for power.	B	-	L	-	-	-	*	0	0	0	0	2.0	2156	-	-	-	-
CMN	2158	Demonstrate how to maintain a tool box.	B	-	L	-	-	-	*	0	0	0	0	1.0	2150, 2151	-	-	-	-
CMN	2159	Initiate a service request.	B,R	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
<b>TOTAL MACCS MAINTENANCE COMMON (CMN) STAGE</b>										0	0	0	0	10	17.5				
<b>TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE)</b>																			
TMDE	2171	Utilize an oscilloscope.	B,R	-	L	-	-	-	*	0	0	0	0	2.0	2172	-	-	-	-
TMDE	2172	Demonstrate the use of a signal generator.	B,R	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
TMDE	2173	Utilize a Ground Tester.	B,R	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
TMDE	2175	Utilize a multimeter.	B,R	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
TMDE	2176	Measure an RF signal with a spectrum analyzer.	B,R	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
TMDE	2177	Utilize a wattmeter.	B,R	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
TMDE	2178	Utilize an Optical Time Domain Reflectometer (OTDR).	B,R	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
TMDE	2179	Utilize a radio test set.	B,R	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
<b>TOTAL TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE) STAGE</b>										0	0	0	0	8	11.0				
<b>COMMUNICATION SECURITY (COMSEC)</b>																			
COMSEC	2190	Describe proper handling and storage of classified materials.	B,R,M	-	L	-	-	-	365	0	0	0	0	2.0	-	-	-	-	-
COMSEC	2191	State the physical security requirements for classified areas.	B,R,M	-	L	-	-	-	365	0	0	0	0	2.0	-	-	-	-	-
COMSEC	2192	Create a classified area	B,R,M	-	L	-	-	-	365	0	0	0	0	2.0	2191	-	-	-	-

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
		physical security diagram.																	
COMSEC	2193	Conduct classified material inventory.	B,R,M	-	L	-	-	-	365	0	0	0	0	2.0	2190	-	-	-	
COMSEC	2194	Extract key material information from EKMS COMSEC callout.	B,R	-	L	-	-	-	*	0	0	0	0	2.0	2190	-	-	-	
COMSEC	2195	Utilize a Common Fill Device.	B,R,M	-	L	-	-	-	365	0	0	0	0	2.0	2190	-	-	-	
COMSEC	2196	Ensure CMCC handling procedures are followed.	B	-	L	-	-	-	*	0	0	0	0	2.0	2190	-	-	-	
COMSEC	2197	Ensure EKMS material handling procedures are followed.	B	-	L	-	-	-	*	0	0	0	0	2.0	2190	-	-	-	
COMSEC	2198	Ensure CCI material handling procedures are followed.	B	-	L	-	-	-	*	0	0	0	0	1.0	2190	-	-	-	
COMSEC	2199	Ensure physical security of classified areas.	B,R,M	-	L	-	-	-	365	0	0	0	0	2.0	2191, 2192	-	-	-	
TOTAL COMMUNICATION SECURITY (COMSEC) STAGE										0	0	0	0	10	19.0				
FAMILIARIZATION (FAM)																			
FAM	2211	State the purpose of Automated Data Processing Equipment (ADPE).	B	-	L	-	-	-	*	0	0	0	0	3.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
FAM	2213	Define Tactical Data Links characteristics.	B	-	L	-	-	-	*	0	0	0	0	3.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
FAM	2214	Describe MTAOM equipment.	B	-	L	-	-	-	*	0	0	0	0	1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
FAM	2215	Describe Commanders Tactical Terminal (CTT) equipment.	B	-	L	-	-	-	*		0		0		1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
FAM	2216	Identify the Intelligence Operations Workstation (IOW).	B	-	L	-	-	-	*		0		0		2.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
FAM	2218	Describe C2 Applications.	B	-	L	-	-	-	*		0		0		1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
FAM	2219	Familiarization with LRR equipment.	B	-	L	-	-	-	*		0		0		1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
FAM	2220	Familiarization with MRR equipment.	B	-	L	-	-	-	*		0		0		1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
FAM	2221	Describe the Identification Friend or Foe (IFF) MK XII interrogator system.	B	-	L	-	-	-	*		0		0		1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
FAM	2222	Describe TACLAN.	B	-	L	-	-	-	*		0		0		1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
FAM	2223	Identify the major components of the Composite Tracking Network (CTN).	B	-	L	-	-	-	*		0		0		1.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-
TOTAL FAMILIARIZATION (FAM) STAGE										0	0	0	0	11	16.0				
COLLATERAL DUTY (CD)																			
CD	2230	State the maintenance Collateral Duties (CD).	B,R	-	L	-	-	-	*		0		0		8.0	-	-	-	
CD	2231	Identify the Maintenance Calibrations Program.	B	-	L	-	-	-	*		0		0		1.0	2230	-	-	-
CD	2232	Identify the Maintenance Modifications Program.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2233	Manage the Tool Control Program.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2234	Identify the Maintenance Publications Library.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2235	Identify major Maintenance Safety Program elements.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
CD	2236	State the purpose of the Material Safety Data Sheet (MSDS) and the MSDS compliance center.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
CD	2237	Identify the key elements of the Maintenance Embarkation Program.	B	-	L	-	-	-	*		0		0		3.0	2230	-	-	-
CD	2238	Identify the equipment record jacket.	B	-	L	-	-	-	*		0		0		1.0	2230	-	-	-
CD	2239	Perform Quality Control Procedures.	B,R,M	-	L	-	-	-	1460		0		0		2.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-
CD	2243	Identify the Maintenance Training program.	B	-	L	-	-	-	*		0		0		2.0	2230	-	-	-
TOTAL COLLATERAL DUTY (CD) STAGE										0	0	0	0	11	27.0				
INFORMATION ASSURANCE WORK FORCE A+(IAWFAT)																			
IAWFAT	2250	Explain PC hardware.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2251	Explain networking concepts.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2252	Explain laptop features and characteristics.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2253	Explain printer features and characteristics.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2254	Explain operational procedures.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2255	Explain operating systems.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2256	Explain security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2257	Explain Mobile Devices.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFAT	2258	Explain Troubleshooting.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFA) STAGE										0	0	0	0	9	36.0				
INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT)																			
IAWFNT	2259	Explain Networking Concepts.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2260	Explain Network Installation	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
		and Configuration.																	
IAWFNT	2261	Explain Network Media and Topologies.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2262	Explain Network Management.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFNT	2263	Explain Network Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0	0	0	5	20.0				
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST)																			
IAWFST	2264	Explain Network Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2265	Explain Operational Security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2266	Explain threats and vulnerabilities.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2267	Explain cryptography.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2268	Explain access control and identity management.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
IAWFST	2269	Explain application, data and host security.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0	0	0	6	24.0				
EQUIPMENT (EQUIP)																			
EQUIP	2380	Conduct Maintenance on the AN/USQ-140(V)2 Multifunctional Information Distribution System (MIDS).	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	2381	Identify the major components of the AN/USQ-140(V)2 Multifunctional Information Distribution System (MIDS).	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-
EQUIP	2384	Describe HF, VHF, UHF, SATCOM radio characteristics.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
EQUIP	2385	Identify the characteristics of unit T/E communications systems.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
EQUIP	2386	Erect T/E antennas.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2387	Install radios in T/E communication systems.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2388	Interface an external radio into T/E communication systems.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
EQUIP	2389	Setup the Processing Display	B	-	L	-	-	-	*		0		0		4.0	-	-	-	-

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
					System (PDS).														
EQUIP	2390	Configure MBVR for plain text (PT) operations.	B,R,M	-	L	-	-	-	730	0	0	0	0	1.0	-	-	-	-	-
EQUIP	2391	Configure AN/VRC-104 for plain text (PT) operations.	B,R,M	-	L	-	-	-	730	0	0	0	0	1.0	-	-	-	-	-
EQUIP	2392	Configure the MBVR and the AN/VRC-104 for single channel operations, Cipher Text (CT).	B,R,M	-	L	-	-	-	730	0	0	0	0	1.0	-	-	-	-	-
EQUIP	2393	Configure the MBVR for SATCOM operation.	B,R,M	-	L	-	-	-	730	0	0	0	0	1.0	-	-	-	-	-
EQUIP	2394	Configure the MBVR radio for enhanced operation.	B,R,M	-	L	-	-	-	730	0	0	0	0	1.0	-	-	-	-	-
EQUIP	2395	Configure AN/VRC-104 radio for Automatic Link Establishment (ALE).	B,R,M	-	L	-	-	-	730	0	0	0	0	1.0	-	-	-	-	-
EQUIP	2396	Demonstrate field expedient antenna techniques.	B,R	-	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
EQUIP	2397	Perform PMCS on AN/VRC 104.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
EQUIP	2398	Perform PMCS on MBVR.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
EQUIP	2399	Perform PMCS on the AN/VRC 110.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
EQUIP	2400	Perform CM on AN/VRC-104.	B	-	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
EQUIP	2401	Perform CM on MBVR.	B	-	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
EQUIP	2402	Perform CM on AN/VRC-110.	B	-	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
EQUIP	2403	Perform CM on the CS system.	B,R	-	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
EQUIP	2404	Conduct maintenance on the HF data radio set.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
EQUIP	2405	Perform PMCS on AN/GRC-171.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
EQUIP	2406	Perform CM on AN/GRC-171.	B	-	L	-	-	-	*	0	0	0	0	4.0	-	-	-	-	-
<b>TOTAL EQUIPMENT (EQUIP) STAGE</b>										<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>60.0</b>				

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
<b>MAINTENANCE MANAGEMENT (MMGT)</b>																			
MMGT	2600	Ensure preparatory measures are taken for disposition of equipment.	B	-	L	-	-	-	*		0		0		3.0	2150	-	-	-
MMGT	2601	Create a Preventive Maintenance Checks and Services (PMCS) schedule.	B	-	L	-	-	-	*		0		0		1.0	2151	-	-	-
MMGT	2602	Reconcile Global Combat Supply System (GCSS) reports.	B,R	-	L	-	-	-	*		0		0		4.0	2159	-	-	-
MMGT	2603	Identify the SECREP management process.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2604	Define RA with regards to O&M funds.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2605	Define PE with regards to O&M funds.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2606	Induct new equipment into service.	B	-	L	-	-	-	*		0		0		2.0	2150, 2159, 2231, 2238	-	-	-
MMGT	2607	Phase out equipment.	B	-	L	-	-	-	*		0		0		2.0	2150	-	-	-
MMGT	2608	Inspect maintenance functional areas.	B,R	-	L	-	-	-	*		0		0		16.0	2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238	-	-	-
MMGT	2609	State the process to submit a Table of organization and equipment (TO&E) Change Request (TOECR).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2610	Identify the Marine Corps Urgent Needs Process (MCUNP).	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	2611	Conduct a Consolidated Memorandum Receipt (CMR) Review.	B	-	L	-	-	-	*		0		0		40.0	-	-	-	-
MMGT	2612	Verify inventory control procedures are implemented.	B	-	L	-	-	-	*		0		0		1.5	2150, 2159	-	-	-
MMGT	2613	Identify the functions of maintenance management.	B	-	L	-	-	-	*		0		0		13.0	2602, 2603, 2609, 2611	-	-	-
MMGT	2614	Ensure equipment is inducted into maintenance cycle.	B	-	L	-	-	-	*		0		0		1.0	2159	-	-	-
<b>TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE</b>										<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>93.5</b>				

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION												
<b>OPERATIONAL MANAGEMENT (OMGT)</b>																			
OMGT	2680	Identify the purpose of communication planning documents.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
OMGT	2681	Determine required equipment to support a mission.	B,R,M	-	L	-	-	-	365	0	0	0	0	2.0	-	-	-	-	-
OMGT	2682	Conduct communications portion of a site survey.	B,R,M	-	L	-	-	-	1460	0	0	0	0	4.0	-	-	-	-	-
OMGT	2683	Identify crew requirements and write a crew schedule.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
OMGT	2684	Determine supply support requirements.	B	-	L	-	-	-	*	0	0	0	0	3.0	2691	-	-	-	-
OMGT	2685	Develop an embarkation plan.	B	-	L	-	-	-	*	0	0	0	0	1.0	2687	-	-	-	-
OMGT	2686	Write a packing list.	B,R,M	-	L	-	-	-	1460	0	0	0	0	8.0	-	-	-	-	-
OMGT	2687	Write an Equipment Density List (EDL).	B	-	L	-	-	-	*	0	0	0	0	8.0	-	-	-	-	-
OMGT	2688	Identify power requirements.	B,R,M	-	L	-	-	-	365	0	0	0	0	4.0	-	-	-	-	-
OMGT	2689	Identify spectrum management procedures.	B	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
OMGT	2690	Fill out a Logistics Support Request (LSR).	B	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
OMGT	2691	Submit a Bill of Material (BOM) request.	B	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
OMGT	2692	Describe common agency doctrinal nets.	B	-	L	-	-	-	*	0	0	0	0	1.0	-	-	-	-	-
OMGT	2694	Draw a site diagram for the TAOC.	B,R	-	L	-	-	-	*	0	0	0	0	2.0	-	-	-	-	-
<b>TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE</b>										0	0	0	0	0	41.0				
<b>TOTAL CORE SKILL PHASE (2000 PHASE)</b>										0	0.0	0	0.0	110	365.0				
<b>MISSION SKILL TRAINING (3000 PHASE EVENTS)</b>																			
<b>INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE</b>																			
IAWFAT	3280	Explain concepts included in A+ exam 220-801.	B,R,M	E	L	-	-	-	1095	0	0	0	0	4.0	2250, 2251, 2252, 2253, 2254	-	-	-	-
IAWFAT	3281	Explain concepts included in A+ exam 220-802.	B,R,M	E	L	-	-	-	1095	0	0	0	0	4.0	2255, 2256, 2257, 2258	-	-	-	-
<b>TOTAL INFORMATION ASSURANCE WORK FORCE A+(IAWFAT) STAGE</b>										0	0	0	0	2	8.0				
<b>INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE</b>																			

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
IWFNT	3282	Explain concepts included in Network+ exam N10-005.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2259, 2260, 2261, 2262, 2263	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE NETWORK+(IAWFNT) STAGE										0	0	0	0	1	4.0				
INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE																			
IWFST	3283	Explain concepts included in Security + exam SY0-301.	B,R,M	E	L	-	-	-	1095		0		0		4.0	2264, 2265, 2266, 2267, 2268, 2269	-	-	-
TOTAL INFORMATION ASSURANCE WORK FORCE SECURITY+(IAWFST) STAGE										0	0	0	0	1	4.0				
EQUIPMENT (EQUIP)																			
EQUIP	3470	Set-up the CS.	B,R,M	-	L	-	-	-	730		0		0		4.0	-	-	-	-
EQUIP	3471	Troubleshoot faulty system component in a CS.	B,R,M	-	L	-	-	-	730		0		0		6.0	-	-	-	-
TOTAL EQUIPMENT (EQUIP) STAGE										0	0	0	0	2	10.0				
MAINTENANCE MANAGEMENT (MMGT)																			
MMGT	3660	Ensure the corrective maintenance repair process is being conducted.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
MMGT	3661	Validate SECREP assets.	B,R,M	-	L	-	-	-	1095		0		0		2.0	-	-	-	-
MMGT	3662	Assess maintenance funding requirements.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										0	0	0	0	3	6.0				
OPERATIONAL MANAGEMENT (OMGT)																			
OMGT	3710	Provide input to the operational plan.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
OMGT	3711	Organize and assign crews for deployment.	B	-	L	-	-	-	*		0		0		2.0	-	-	-	-
OMGT	3712	Verify communications with external agencies.	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
OMGT	3713	Deploy a communications system ISO operations.	B,R,M	-	L	-	-	-	1095		0		0		8.0	-	-	-	-
OMGT	3714	Deploy a maintenance capability.	B	-	L	-	-	-	*		0		0		8.0	-	-	-	-
OMGT	3715	Prepare system for embark.	B	-	L	-	-	-	*		0		0		8.0	-	-	-	-
TOTAL OPERATIONAL MANAGEMENT (OMGT) STAGE										0	0	0	0	6	28.0				
MARINE AIR CONTROL GROUP (MACG)																			
MACG	3750	Identify TACC Communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
MACG	3751	Identify TAOC and EW/C communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-
MACG	3752	Identify DASC	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-	-

TAOC MOS 5939 T&R SYLLABUS MATRIX																				
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV	
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME					
		communications information exchange requirements.																		
MACG	3753	Identify UAS Communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-		
MACG	3754	Identify LAAD Communications information exchange requirements.	B,R,M	-	L	-	-	-	1095		0		0		1.0	-	-	-		
MACG	3755	Identify MATC communications information exchange requirements.	B, M	-	L	-	-	-	1095		0		0		1.0	-	-	-		
MACG	3756	Draw a Communications Diagram for the agencies within the MACG.	B, R, M	-	L	-	-	-	1095		0		0		2.0	3750, 3751, 3752, 3753, 3754, 3755	-	-	-	
TOTAL MARINE AIR CONTROL GROUP (MACG) STAGE										0	0	0	0	5	8.0					
TOTAL MISSION SKILL PHASE (3000 PHASE)										0	0.0	0	0.0	20	68.0					
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)																				
EQUIPMENT (EQUIP)																				
EQUIP	4111	Perform operator/crew maintenance on the Composite Tracking Network (CTN)	B	E	G	-	-	-	*				0		0.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
EQUIP	4114	Configure the AN/MSQ-143 Composite Tracking Network (CTN) for Operation	B	E	G	-	-	-	*				0		0.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
EQUIP	4426	Set-up the Composite Tracking Network (CTN)	B,R,M	-	L	-	-	-	730		0		0		6.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004,	-	-	-	

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
															8005, 8006, 8007, 8008				
EQUIP	4427	Tear-down the Composite Tracking Network (CTN)	B,R,M	-	L	-	-	-	730	0	0	0	0	6.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
EQUIP	4466	Perform maintenance within the CTN	B	-	L	-	-	-	*	0	0	0	0	6.0	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
TOTAL EQUIPMENT (EQUIP) STAGE										0	0	0	0	3	18.0				
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)										2	0.0	0	0.0	3	18.0				
TOTAL 2000, 3000, AND 4000 PHASE										2	0.0	0	0.0	133	451.0				
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																			
INSTRUCTOR UNDER TRAINING (IUT)																			
BASIC INSTRUCTOR (BI)																			
IUT	5000	Introduce principles of instruction	B	-	G	-	-	D	*	0	0	0	0	2.0	Recommended by SI or WTI	-	-	-	
IUT	5010	Understand the structure of an event	B	-	G	-	-	D	*	0	0	0	0	1.0	Recommended by SI or WTI	-	-	-	
IUT	5020	Conduct a period of instruction on a T&R event	B	-	G	-	-	D	*	0	0	0	0	2.0	Recommended by SI or WTI	-	-	-	
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										0	0	0	0	3	5.0				
SENIOR INSTRUCTOR (SI)																			
IUT	5100	Understand Aviation T&R program	B	-	G	-	-	D	*	0	0	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
IUT	5110	Understand Applicable Community T&R	B	-	G	-	-	D	*	0	0	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
IUT	5120	Understand T&R Administration	B	-	G	-	-	D	*	0	0	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
IUT	5130	Develop a training plan	B,R,M	-	G	-	-	D	365	0	0	0	0	2.0	5000, 5010, 5020, 6320	-	-	-	
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										0	0	0	0	4	8.0				
TOTAL INSTRUCTOR UNDER TRAINING SKILLS PHASE (IUT)										0	0	0	0	7	13.0				
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																			

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
										#	TIME	#	TIME	#	TIME				
	CODE	TITLE			TYPE	#	OPTION												
<b>QUALIFICATIONS (QUAL)</b>																			
QUAL	6100	ACSBT	B	-	L	-	-	-	*	0	0	0	0	0.5	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2238, 2243, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
QUAL	6101	ACSAT	B	-	L	-	-	-	*	0	0	0	0	0.5	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2216, 2218, 2219, 2220, 2221, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6100	-	-	-	
<b>TOTAL QUALIFICATIONS STAGE (QUAL)</b>										0	0	0	0	2	1.0				
<b>CERTIFICATION (CERT)</b>																			
CERT	6200	Certification as a COMPTIA A+ Technician.	B	-	L	-	-	L	*	0	0	0	0	4	2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 3280, 3281		3280, 3281		
CERT	6201	Certification as a COMPTIA Network+ Technician.	B	-	L	-	-	L	*	0	0	0	0	4	2259, 2260, 2261, 2262, 2263, 3282		3282		
CERT	6202	Certification as a COMPTIA Security+ Technician.	B	-	L	-	-	L	*	0	0	0	0	4	2264, 2265, 2266, 2267, 2268, 2269, 3283		3283		
<b>TOTAL CERTIFICATION STAGE (CERT)</b>										0	0	0	0	2	12.0				
<b>DESIGNATIONS (DESG)</b>																			

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
DESG	6301	Designation as a Tactical Data Systems Crew Chief (TDSCC).	B	-	L	-	-	L	*	0	0	1			2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2243, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2601, 2602, 2603, 2606, 2607, 2612, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2694, 3470, 3471, 3660, 3661, 3710, 3711, 3712, 3713, 3715, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-	
DESG	6302	Designation as a Tactical Data Systems Maintenance Chief (ACSMC).	B	-	L	-	-	L	*	0	0	1			2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2243, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2694, 3470, 3471, 3660, 3662, 3710, 3711, 3712, 3713, 3714, 3715, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044	-	-	-	

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
DESG	6320	Designation as a Basic Instructor (BI).	B	-	L	-	-	L	*	0	0	0	0	1	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2195, 2230, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2397, 2398, 2399, 2403, 2404, 2405, 2692, 3470, 3712, 3715, 5000, 5010, 5020, 6100, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008	-	-	-	
DESG	6321	Designation as a Senior Instructor (SI).	B	-	L	-	-	L	*	0	0	0	0	1	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2243, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-	
DESG	6340	Designation as a Maintenance Safety NCO.	B	-	L	-	-	L	*	0	0	0	0	1	2230, 2235, 2236	-	-	-	
DESG	6341	Designation as a Maintenance HAZMAT NCO.	B	-	L	-	-	L	*	0	0	0	0	1	2230, 2235, 2236	-	-	-	
DESG	6342	Designation as a Maintenance Publications NCO.	B	-	L	-	-	L	*	0	0	0	0	1	2230, 2234	-	-	-	
DESG	6343	Designation as a Maintenance Tools NCO.	B	-	L	-	-	L	*	0	0	0	0	1	2230, 2233	-	-	-	
DESG	6344	Designation as a Maintenance Calibrations NCO.	B	-	L	-	-	L	*	0	0	0	0	1	2230, 2231	-	-	-	
DESG	6345	Designation as a Maintenance Modifications NCO.	B	-	L	-	-	L	*	0	0	0	0	1	2230, 2232, 2234	-	-	-	
DESG	6346	Designation as a Maintenance Embarkation NCO.	B	-	L	-	-	L	*	0	0	0	0	1	2230, 2237	-	-	-	

TAOC MOS 5939 T&R SYLLABUS MATRIX																			
STAGE	EVENT		POI	E	DEVICE			COND	REFLY	GROUND/ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS		PREREQ	NOTES	CHAIN	EVENT CONV
	CODE	TITLE			TYPE	#	OPTION			#	TIME	#	TIME	#	TIME				
DESG	6347	Designation as a Marine Corps Integrated Maintenance Management System (MIMMS) NCO.	B	-	L	-	-	L	*		0		0		1	2159, 2230, 2602	-	-	-
DESG	6348	Designation as a Maintenance Training NCO.	B	-	L	-	-	L	*		0		0		1	2230	-	-	-
DESG	6349	Designation as a Maintenance Quality Control (QC) NCO.	B	-	L	-	-	L	*		0		0		1	2150, 2151, 2153, 2155, 2156, 2157, 2158, 2159, 2171, 2172, 2173, 2175, 2176, 2177, 2178, 2179, 2190, 2191, 2193, 2194, 2195, 2211, 2213, 2214, 2215, 2216, 2218, 2219, 2220, 2221, 2222, 2223, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2380, 2381, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2606, 2614, 2687, 2688, 2690, 2692, 3470, 3471, 3660, 3712, 3715, 6101, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028	-	-	-
<b>TOTAL DESIGNATIONS STAGE (DESG)</b>										0	0	0	0	14	14.0				
<b>SCHOOL CODES (SCHL)</b>																			
SCHL	6020	Link 16 Basics Course (JT-100)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	
SCHL	6021	Intro to Multi TDL Network (JT-101)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	
SCHL	6022	Multi-TDL Advanced Joint Interoperability Course (MAJIC) (JT-102)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	
SCHL	6023	Link 16 Joint Interoperability Course (US-109)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	
SCHL	6024	Multi TDL Planner Course (JT-201)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	
SCHL	6025	Link 16 Unit Manager (LUM) Course (JT-220)	B	-	G	-	-	L	*		0		0		0.0	-	-	-	
<b>TOTAL SCHOOL CODES STAGE (SCHL)</b>										0	0	0	0	0	0.0				
<b>TOTAL REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS SKILLS PHASE (RCQD)</b>										0	0.0	0	0.0	18	27.0				

4.19 ADDITIONAL MATRICES. None

4.20 ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS. None

4.21 AVIATION TRAINING FORMS (ATF). A syllabus evaluation form is required for any initial or subsequent event training. The MACCS Training Form (MTF) is located in the C3 Course Catalog and available online at the MAWTS-1 C-3 website,  
<https://vcepub.tecom.usmc.mil/sites/msc/magtftc/mawts1/departments1/newc3/default.aspx>

4.22 TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM). None