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Subj: METEOROLOGICAL AND OCEANOGRAPHIC SERVICES TRAINING AND READINESS MANUAL

Ref: (a) NAVMC 3500.14C

Encl: (1) METOC T&R Manual

1. Purpose. In accordance with reference (a), enclosure (1) contains revised standards and regulations regarding the training of Meteorological and Oceanographic (METOC) Services communities within Marine Air Control Squadrons, Intel Battalions, and station units.

2. Cancellation. NAVMC 3500.38A

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

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

b. Realigned training to support Mission Essential Tasks for Intel Battalion, Marine Air Control squadrons, and station units.

c. Combined the METOC Operations Military Occupational Specialties (MOS) 6802 and 6842 with METOC Maintenance (MOS 5951).

d. Leveraged METOC enlisted training events to build and continue training for the METOC officer.

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e. Removed enlisted Weapons and Tactics Instructor requirement for MOS 5951 training.

f. Aligned MOS 5951 training to enhance training within the Marine Air Traffic Control Detachments.

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 466), 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.

J. W. LUKEMAN
By direction

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CHAPTER 1
METEOROLOGICAL AND OCEANOGRAPHIC (METOC) SERVICES TRAINING AND READINESS UNIT REQUIREMENTS

	PARAGRAPH	PAGE
METOC UNIT TRAINING AND READINESS REQUIREMENTS.	1.0	1-3
MISSION.	1.1	1-3
TABLE OF ORGANIZATION (T/O).	1.2	1-3
SIX FUNCTIONS OF MARINE AVIATION.	1.3	1-4
CORE/MISSION/CORE PLUS ABBREVIATIONS.	1.4	1-5
MISSION ESSENTIAL TASK LIST (METL).	1.5	1-7
MISSION ESSENTIAL TASK (MET) TO SIX FUNCTIONS OF MARINE AVIATION MATRIX.	1.6	1-7
CORE METL TO CORE SKILLS/MISSION SKILL MATRIX.	1.7	1-8
CORE METL TO CORE PLUS SKILLS/MISSION PLUS SKILL MATRIX. . .	1.8	1-9
CMMR CORE AND MISSION SKILLS PERSONNEL DEFINITIONS AND PROFICIENCY REQUIREMENTS.	1.9	1-10
CMMR CORE PLUS SKILL PERSONNEL DEFINITIONS AND PROFICIENCY REQUIREMENTS.	1.10	1-11
CMMR COMBAT LEADERSHIP REQUIREMENTS.	1.11	1-11
INSTRUCTOR REQUIREMENTS.	1.12	1-11
METOC EXTERNAL SYLLABUS RESOURCE REQUIREMENTS.	1.13	1-12

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METEOROLOGICAL AND OCEANOGRAPHIC (METOC) SERVICES
TRAINING AND READINESS UNIT REQUIREMENTS

1.0 TRAINING AND READINESS REQUIREMENTS. This manual serves as the Training and Readiness Manual for 68XX MOS. The METOC Community plays a crucial role in the MAGTF's ability to conduct Maneuver Warfare. The goal of Marine METOC is to attain the highest possible combat readiness to support Expeditionary Maneuver Warfare while preserving and conserving our Marines and equipment. Embedded within our combat readiness is the ability to rapidly, effectively, and efficiently deploy on short notice and to quickly and effectively plan for crises and/or contingency operations thereby ensuring the MAGTF remains ready for combat when and where the need arises. The T&R Program represents the collaborative effort of METOC Subject Matter Experts (SMEs) who designed training standards to maximize combat capabilities. These standards, intrinsic in the core competency readiness metric, describe and define unit capabilities and requirements necessary to maintain like-unit proficiency in core skills and combat leadership. Training events are based on specific requirements and performance standards that ensure METOC Marines maintain a common base of training and depth of combat capabilities. The T&R comprises a building block approach to ensure trained METOC personnel remain ready, relevant, and fully capable of supporting the MAGTF Commander.

1.1 MISSIONS. The METOC Community provides support across the MAGTF with the primary tactical capability being provided by the following units:

1.1.1 Marine Air Traffic Control Detachment (MATCD) supports the MAGTF Commander by providing continuous all-weather, RADAR/Non-RADAR approach, departure, enroute, tower air traffic control, and meteorological services to friendly aircraft. Within this mission, the Meteorological Section of the MATCD is responsible for providing meteorological surface sensing, meteorological upper air sensing, meteorological satellite receiving and meteorological product generations and information dissemination systems.

1.1.2 Intelligence Battalion (INTEL BN) supports the Marine Expeditionary Force (MEF) by planning, directing, collecting, processing, producing and disseminating intelligence, and by providing counterintelligence support to the MEF Command Element, MEF Major Subordinate Commands, subordinate Marine Air Ground Task Forces (MAGTF), and other commands, as directed. Within this mission, the METOC section characterizes the METOC environment through collection, analysis, and prediction; and then exploits this information with tailored and integrated METOC products.

1.1.3 Installation Services support all Marine Corps Air Station (MCAS), Marine Aircraft Wing (MAW), and transient aircraft in garrison by collecting, evaluating, interpreting, and disseminating METOC observations and forecasts; preparing and disseminating weather watches and advisories (WWAs); preparing and briefing aviation flight weather briefs; forecasting upper-level winds; preparing and disseminating yearly astronomical data; providing climatological data upon request; and completing all other METOC request for information (RFI) as requested.

1.2 TABLE OF ORGANIZATION (T/O). Refer to Marine Corps Total Force Division, CD&I, for current authorized organizational structure and personnel strength. Table 1-1 depicts the METOC T/O as of the date of this directive. The following paragraphs encompass a brief summary of each METOC unit mission requirements falling under three (3) broad

categories: METOC support to the Marine Air Ground Task Force (MAGTF) and Installations.

1.2.1 TABLE OF ORGANIZATION

T/O for MAGTF Support
1st Intel Battalions (INTEL M20736) Officer – 1 (6802) Enlisted – 25(6842) 3 (5951)
2nd Intel Battalions (INTEL M20368) Officer – 1 (6802) Enlisted – 17(6842) 3 (5951)
3rd Intel Battalion (INTEL M20782) Officer – 1 (6802) Enlisted – 21(6842) 3 (5951)
Marine Air Control Squadron ATC Detachments (MACS ATC Det M00863, M00864, M00874, M00875, M00876, M00882, M00883, M00884, M01236) Officer – 1 (6802) Enlisted – 12(6842) 3 (5951)
T/O for Installation Services
Regional METOC Production Center East (RMC M02207, M31001, M02209) Officer – 1 (6802) Enlisted – 17(6842)
Station Office(M02205, M02208, M00262, MS3510) Enlisted – 5 (6842)
Station Office (M02206 M02212) Enlisted – 4 (6842)
OCONUS METOC Office (M02211, M67420) Officer – 1 (6802) Enlisted – 15(6842)
OCONUS METOC Office (Futenma M02204) Officer – 1 (6802) Enlisted – 8 (6842)
OCONUS METOC Office (Iwakuni M02203) Officer – 1 (6802) Enlisted – 6 (6842)

1.3 SIX FUNCTIONS OF MARINE AVIATION

SIX FUNCTIONS OF MARINE AVIATION		
FUNCTION	**ABBREVIATION**	**DESCRIPTION**
Offensive Air Support	**OAS**	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.
Assault Support	**AS**	AS 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).
Anti-Air Warfare	**AAW**	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.
Electronic Warfare	**EW**	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.
Control of Aircraft & Missiles	**CoA&M**	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.
Aerial Reconnaissance	**AR**	AR 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.

METOC	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILLS (2000 PHASE)	
ACAD	ACADEMICS
ADM	ADMINISTRATION
ADPE	AUTOMATED DATA PROCESSING EQUIPMENT
AMS	APPLIED METEOROLOGICAL SCIENCE
ATD	ASTRONOMICAL /TIDAL DATA
COMM	COMMUNICATIONS
DEPL	DEPLOYMENT
EQPT	EQUIPMENT
FAM	FAMILIARIZATION
FAS	FIRST AID AND SAFETY
LFA	LITTORAL FORECASTING/ANALYSIS
MDA	METOC DATA ANALYSIS

MDN	METOC DOCTRINE
METEM	METEOROLOGICAL EQUIPMENT MAINTENANCE
METF	METEOROLOGICAL FORECASTING
MGT	MANAGEMENT
MIA	METOC IMPACT ASSESSMENT
MMGT	MAINTENANCE MANAGEMENT
MPB	METOC PRODUCT BRIEFING
MSO	METEOROLOGICAL SURFACE OBSERVATIONS
NAMP	NAVAL AVIATION MAINTENANCE PROGRAM
ORNT	ORIENTATION
SEC	COMMUNICATION SECURITY
TDL	TACTICAL DATA LINKS
TMDE	TEST MEASUREMENT DIAGNOSTIC EQUIPMENT
UAS	UPPER ATMOSPHERIC SENSING
MISSION SKILLS (3000 PHASE)	
ACAD	ACADEMICS
ADM	ADMINISTRATION
ADPE	AUTOMATED DATA PROCESSING EQUIPMENT
ATD	ASTRONOMICAL/TIDAL DATA
DEPL	DEPLOYMENT
EQPT	EQUIPMENT
LFA	LITTORAL FORECASTING/ANALYSIS
METEM	METEOROLOGICAL EQUIPMENT MAINTENANCE
METF	METEOROLOGICAL FORECASTING
MGT	MANAGEMENT
MGT	MANAGEMENT
MIA	METOC IMPACT ASSESSMENT
MMGT	MAINTENANCE MANAGEMENT
MPB	METOC PRODUCT BRIEFING
MPC	METOC PLANNING COORDINATION
MSO	METEOROLOGICAL SURFACE OBSERVATIONS
TDL	TACTICAL DATA LINKS
CORE PLUS SKILLS (4000 PHASE)	
ACAD	ACADEMICS
LFA	LITTORAL FORECASTING/ANALYSIS
MDN	METOC DOCTRINE
MGT	MANAGEMENT
MIA	METOC IMPACT ASSESSMENT
MMTM	MARINE ATC MOBILE TEAM
R,C,Q,D PHASE (6000 PHASE)	
AMAF	APPRENTICE METOC ANALYST FORECASTER

IMC	INTEL METOC CHIEF
JMAF	JOURNEYMAN METOC ANALYST FORECASTER
JMO	JOURNEYMAN METOC OFFICER
MMO	MASTER METOC OFFICER
MMC	MATCD METOC CHIEF
MAT	METEM ADVANCED TECH
MBT	METEM BASIC TECH
METEM WCS	METEM WORK CENTER SUPERVISOR
MO	METOC OBSERVER
MSTF	METOC SUPPORT TEAM FORECASTER
MSTL	METOC SUPPORT TEAM LEADER
MSTO	METOC SUPPORT TEAM OBSERVER

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

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

METOC		
MISSION ESSENTIAL TASK LIST (METL)		
CORE		
MET	**ABBREVIATION**	**MCT DESCRIPTION**
MCT 2.1.2.7	INTEL	Conduct METOC Support
MCT 4.6.3.10	IS	Provide Meteorological Services
MCT 5.3.5.8	C2	Provide METOC Services

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

METOC OPERATIONS							
MISSION ESSENTIAL TASK LIST (METL)							
CORE							
MET	**ABBREVIATION**	**SIX FUNCTIONS OF MARINE AVIATION**					
		OAS	**ASPT**	**AAW**	**EW**	**CoA&M**	**AR**
MCT 2.1.2.7	INTEL	X	X	X	X	X	X
MCT 4.6.3.10	IS	X	X	X	X	X	X
MCT 5.3.5.8	C2	X	X	X	X	X	X

1.7 MISSION ESSENTIAL TASK (MET) OUTPUT STANDARDS.

CORE MET OUTPUT STANDARDS									
			TOTAL CMMR CREWS						
			INTEL BN	INSTALLATION SUPPORT				MACS	
MET	ABBREVIATION	OUTPUT STANDARDS		RMC	STATION (CONUS)	STATION (OCONUS)	STATION (OCONUS) IWAKUNI	1/2/4	24
MCT 2.1.2.7	INTEL	Y/N METOC CAPABILITIES SUFFICIENT TO SUPPORT MISSION OR OPERATION.	5	-	-	-	-	-	
		Y/N ABLE TO EXECUTE METOC SUPPORT OPERATIONS.							
		Y/N ABLE TO PLAN AND CONDUCT JOINT METOC SUPPORT OPERATIONS.							
		Y/N CAPABLE OF MAINTAINING AND SUSTAINING ENVIRONMENTAL SUPPORT SYSTEMS.							
MCT 4.6.3.10	IS	Y/N CAPABLE OF AUGMENTING THE AUTOMATED SURFACE OBSERVATION SYSTEM (ASOS).	-	4	1	2	2	-	
		Y/N METEOROLOGICAL CAPABILITIES SUFFICIENT TO SUPPORT MISSION OR OPERATION.							
		Y/N ENVIRONMENTAL SUPPORT SYSTEMS AVAILABLE TO CONDUCT METEOROLOGICAL SUPPORT.							
MCT 5.3.5.8	C2	Y/N METOC CAPABILITIES SUFFICIENT TO SUPPORT MISSION OR OPERATION.	-	-	-	-	-	4	2
		Y/N ABILITY TO EXECUTE METOC SUPPORT OPERATIONS.							
		Y/N ABILITY TO PLAN AND CONDUCT JOINT METOC SUPPORT AND OPERATIONS.							
		Y/N CAPABILITY TO MAINTAIN AND SUSTAIN ENVIRONMENTAL SUPPORT SYSTEMS.							
		Y/N ABLE TO PROVIDE SUSTAINED METOC SERVICES AT 2 MAIN AIR BASE OR AN AIR FACILITY.							
		Y/N ABLE TO SUPPORT METOC SERVICES AT (4) REMOTE AIR SITES OR POINTS.							

1.8 MET TO CORE/MISSION/CORE PLUS SKILL MATRIX. Provides a pictorial view of the relationship between the Core MCT (Marine Corps Task) and each Core/Mission/Core Plus skill associated with the MCT. Shading indicates Core Plus.

MET	METOC																										
	MISSION ESSENTIAL TASK (MET) TO CORE/MISSION/CORE PLUS SKILL MATRIX																										
	CORE SKILL																										
	2000 PHASE																										
	ACAD	MSO	UAS	ATD	FAM	EQPT	AMS	MDA	METF	MPB	COMM	MDN	ADM	MGT	LFA	MIA	ORNT	FAS	EQPT	TMDE	SEC	MMGT	NAMP	ADPE	TDL	DEPL	METEM
MCT 2.1.2.7	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 4.6.3.10	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 5.3.5.8	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	MISSION SKILL															CORE PLUS					
	3000 PHASE															4000 PHASE					
	ACAD	MSO	ATD	EQPT	METF	MPB	LFA	MIA	MGT	MPC	MMGT	ADPE	TDL	DEPL	METEM	ACAD	LFA	MIA	MDN	MGT	MMTM
MCT 2.1.2.7	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	
MCT 4.6.3.10	X	X	X	X	X	X	X	X	X	X	X	X			X	X		X	X	X	
MCT 5.3.5.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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

METOC CMMR			
CMMR Positions	Intel BN		
	6802	6842	5951
MO	0	1	0
AMAF	0	2	0
JMAF	0	1	0
MSTF	0	2*	0
MSTL	0	1*	0
IMC	0	1	0
JMO	1	0	0
METEM WCS	0	0	1
MAT	0	0	1
MBT	0	0	1
*Note: These are additional quals for mission enhancement.			

METOC CMMR								
CMMR Positions	Installation Services							
	RMC		STATION (CONUS)		STATION (OCONUS)		STATION (OCONUS) FUTENMA /IWAKUNI	
	6802	6842	6802	6842	6802	6842	6802	6842
MO	0	2	0	1	0	2	0	1
AMAF	0	2	0	1	0	2	0	1
JMAF	0	1	0	1	0	1	0	1
RMCC	0	1	0	0	0	0	0	0
JMO	0	0	0	0	1	0	1	0
MMO	1	0	0	0	0	0	0	0

METOC CMMR						
CMMR Positions	MACS 1/2			MACS 4		
	6802	6842	5951	6802	6842	5951
MO	0	4	0	0	2	0
AMAF	0	2	0	0	2	0
JMAF	0	1	0	0	1	0
MSTO	0	2*	0	0	2*	0
MSTF	0	1*	0	0	1*	0

MSTL	0	1*	0	0	1*	0
METEM WCS	0	0	1	0	1	1
MAT	0	0	1	0	1	1
MBT	0	0	1	0	1	1
MMC	0	1	0	0	1	0
JMO	1	0	0	1	0	0
*Note: These are additional quals for mission enhancement.						

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)

UNIT CMMR INSTRUCTORS						
INSTRUCTOR DESIGNATION	INTEL BN	INSTALLATION SUPPORT				MACS
		RMC	STATION (CONUS)	STATION (OCONUS)	STATION (OCONUS) FUTENMA /IWAKUNI	
BI	6	4	1	4	2	12
SI	4	2	1	2	1	9
WTI	1	2	0	1	1	3

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

METOC CMMR			
CMMR Positions	Intel BN		
	6802	6842	5951
MO	0	1	0
AMAF	0	2	0
JMAF	0	1	0
MSTF	0	2*	0
MSTL	0	1*	0
IMC	0	1	0
JMO	1	0	0
METEM WCS	0	0	1

MAT	0	0	1
MBT	0	0	1
*Note: These are additional quals for mission enhancement.			

METOC CMMR								
CMMR Positions	Installation Services							
	RMC		STATION (CONUS)		STATION (OCONUS)		STATION (OCONUS) FUTENMA /IWAKUNI	
	6802	6842	6802	6842	6802	6842	6802	6842
MO	0	2	0	1	0	2	0	1
AMAF	0	2	0	1	0	2	0	1
JMAF	0	1	0	1	0	1	0	1
RMCC	0	1	0	0	0	0	0	0
JMO	0	0	0	0	1	0	1	0
MMO	1	0	0	0	0	0	0	0

METOC CMMR						
CMMR Positions	MACS 1/2			MACS 4		
	6802	6842	5951	6802	6842	5951
MO	0	4	0	0	2	0
AMAF	0	2	0	0	2	0
JMAF	0	1	0	0	1	0
MSTO	0	2*	0	0	2*	0
MSTF	0	1*	0	0	1*	0
MSTL	0	1*	0	0	1*	0
METEM WCS	0	0	1	0	1	1
MAT	0	0	1	0	1	1
MBT	0	0	1	0	1	1
MMC	0	1	0	0	1	0
JMO	1	0	0	1	0	0
*Note: These are additional quals for mission enhancement.						

1.13 METOC EXTERNAL SYLLABUS RESOURCE REQUIREMENTS. None

CHAPTER 2

METEOROLOGICAL EQUIPMENT TECHNICIAN (MOS 5951)/INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

	PARAGRAPH	PAGE
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS.	2.0	2-3
TRAINING PROGRESSION MODEL.	2.1	2-3
ABBREVIATIONS.	2.2	2-3
DEFINITIONS.	2.3	2-4
INDIVIDUAL CORE/MISSION/CORE PLUS PROFICIENCY REQUIREMENTS.	2.4	2-5
CERTIFICATION, QUALIFICATION AND DESIGNATION TABLE.	2.5	2-8
PROGRAMS OF INSTRUCTION (POI).	2.6	2-9
SYLLABUS NOTES.	2.7	2-10
ACADEMIC PHASE (0000).	2.8	2-11
CORE SKILL INTRODUCTION PHASE (1000).	2.9	2-12
CORE SKILL PHASE (2000).	2.10	2-16
MISSION SKILL PHASE (3000).	2.11	2-71
CORE/MISSION PLUS SKILL PHASE (4000).	2.12	2-78
INSTRUCTOR TRAINING PHASE (5000).	2.13	2-78
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) PHASE (6000).	2.14	2-79
MET PHASE (7000).	2.15	2-90
AVIATION CAREER PROGRESSION MODEL (8000).	2.16	2-96
T&R ATTAIN AND MAINTAIN TABLE.	2.17	2-97
T&R SYLLABUS MATRIX.	2.18	2-102
ADDITIONAL MATRIX (ORDNANCE/RANGES).	2.19	2-118
ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS.	2.20	2-118
AVIATION TRAINING FORMS (ATF).	2.21	2-118
TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM). .	2.22	2-118

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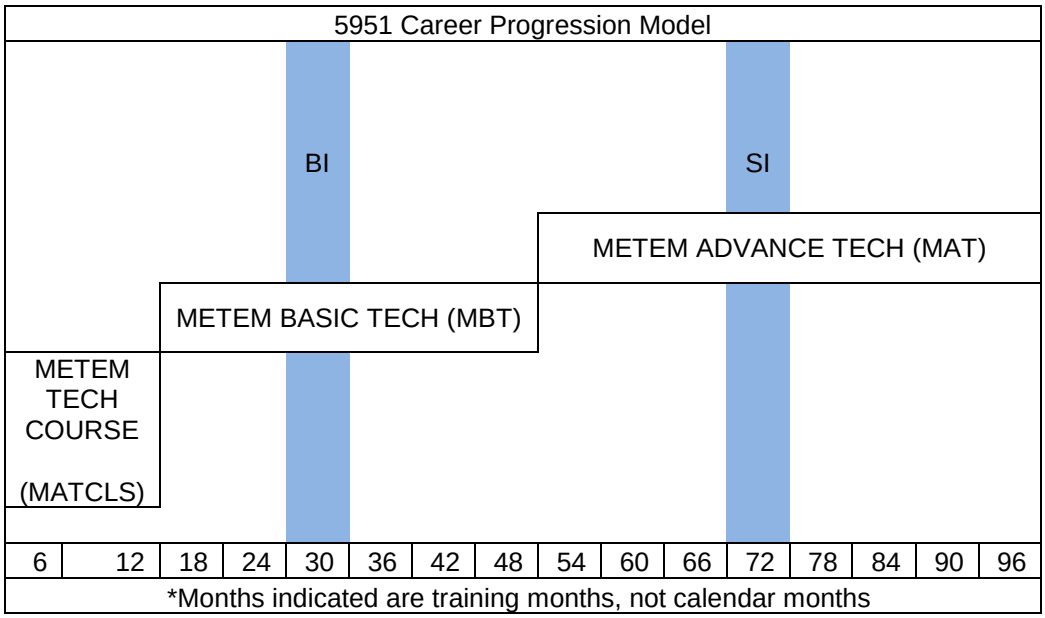
CHAPTER 2

METEOROLOGICAL EQUIPMENT TECHNICIAN (MOS 5951) INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

2.0 MOS 5951 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core, Mission, and Core Plus Skills. The goal of this chapter is to develop individual and unit war fighting capabilities.

2.1 5951 TRAINING PROGRESSION MODEL. This model represents the recommended average training progression for the 5951 crewmember. Units should use the model as a point of departure to generate individual training plans.



2.2 ABBREVIATIONS

METEM MAINTENANCE MOS 5951	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILL (2000 Phase)	
ORNT	ORIENTATION
FAS	FIRST AID AND SAFETY
EQPT	EQUIPMENT
TMDE	TEST MEASUREMENT DIAGNOSTIC EQUIPMENT
SEC	COMMUNICATION SECURITY
MMGT	MAINTENANCE MANAGEMENT
NAMP	NAVAL AVIATION MAINTENANCE PROGRAM
ADPE	AUTOMATED DATA PROCESSING EQUIPMENT
TDL	TACTICAL DATA LINKS
DEPL	DEPLOYMENT

METEM	METEOROLOGICAL EQUIPMENT MAINTENANCE
MISSION SKILLS (3000 PHASE)	
MMGT	MAINTENANCE MANAGEMENT
ADPE	AUTOMATED DATA PROCESSING EQUIPMENT
TDL	TACTICAL DATA LINKS
DEPL	DEPLOYMENT
METEM	METEOROLOGICAL EQUIPMENT MAINTENANCE
INSTRUCTOR (5000 Phase)	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)	
MBT	METEM BASIC TECH (MBT)
MAT	METEM ADVANCED TECH (MAT)
QAR	QUALITY ASSURANCE REPRESENTATIVE (QAR)
WCSUP	WORK CENTER SUPERVISOR (WCSUP)
CPR	CARDIO-PULMONARY RESUCITATION CERT (CPR)
AFLIC	AIRFIELD LICENSING CERT (AFLIC)
HAZMAT MGR	OSHA/HAZMAT MANAGER (HAZMAT MGR)
HAZMAT SUP	OSHA/HAZMAT SUPERVISOR (HAZMAT SUP)
CPCP	CORROSION PREVENTION AND CONTROL PROGRAM (CPCP)
NAQAR	NAVAL AVIATION QUALITY ASSURANCE ADMINISTRATIVE REPRESENTATIVE (QAR)
CTPL	CENTRAL TECHNICAL PUBLICATION LIBRARIAN (CTPL)
MSPC	MAINTENANCE SAFETY PROGRAM COORDINATOR (MSPC)

2.3 DEFINITIONS

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

Core Plus Skill Proficiency (CPSP)	CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP.
Core Plus Mission Proficiency (CPMP)	CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP.

2.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

2.4.2 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.

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

2.4.4 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.

2.4.5 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 Aviation T&R Program Manual Chapter 2 for amplifying information on POI updating.

METEM MAINTENANCE MOS 5951					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY		MAINTAIN PROFICIENCY			
BASIC POI		REFRESHER POI		MAINTAIN POI	
STAGE	CODE	STAGE	CODE	STAGE	CODE
CORE SKILL (2000 Phase)					
ORNT	2000R	ORNT	2000R		
ORNT	2005R	ORNT	2005R	ORNT	2005R
ORNT	2010R	ORNT	2010R	ORNT	2010R
FAS	2015R	FAS	2015R	FAS	2015R
FAS	2020R	FAS	2020R	FAS	2020R

EQPT	2050R	EQPT	2050R	EQPT	2050R
EQPT	2055R	EQPT	2055R	EQPT	2055R
TMDE	2100R	TMDE	2100R	TMDE	2100R
TMDE	2115R	TMDE	2115R	TMDE	2115R
SEC	2150R	SEC	2150R	SEC	2150R
SEC	2155R	SEC	2155R		
SEC	2160R	SEC	2160R		
SEC	2165R	SEC	2165R		
SEC	2170R	SEC	2170R		
SEC	2175R	SEC	2175R		
MMGT	2201R	MMGT	2201R		
MMGT	2202R	MMGT	2202R		
MMGT	2204R	MMGT	2204R		
MMGT	2205R	MMGT	2205R		
MMGT	S2206R	MMGT	S2206R		
MMGT	2207R	MMGT	2207R		
MMGT	S2208R	MMGT	S2208R		
MMGT	2209R	MMGT	2209R		
MMGT	2210R	MMGT	2210R	MMGT	2210R
MMGT	2211R	MMGT	2211R		
MMGT	2212R	MMGT	2212R	MMGT	2212R
MMGT	2213R	MMGT	2213R	MMGT	2213R
MMGT	2214R	MMGT	2214R		
MMGT	2215R	MMGT	2215R		
MMGT	2217R	MMGT	2217R	MMGT	2217R
MMGT	2218R	MMGT	2218R	MMGT	2218R
MMGT	2220R	MMGT	2220R		
MMGT	2221R	MMGT	2221R	MMGT	2221R
MMGT	2223R	MMGT	2223R		
MMGT	2232R	MMGT	2232R		
MMGT	2234				
NAMP	2250R	NAMP	2250R	NAMP	2250R
NAMP	2251R	NAMP	2251R		
NAMP	2252R	NAMP	2252R	NAMP	2252R
NAMP	2253R	NAMP	2253R		
NAMP	2254R	NAMP	2254R		
NAMP	2255R	NAMP	2255R		
NAMP	2256R	NAMP	2256R		
NAMP	2257R	NAMP	2257R		
NAMP	2258R	NAMP	2258R		
NAMP	2259R	NAMP	2259R		
NAMP	2260R	NAMP	2260R	NAMP	2260R
NAMP	2261R	NAMP	2261R		
NAMP	2262R	NAMP	2262R		
NAMP	2265R	NAMP	2265R		
ADPE	2300				
ADPE	2305				
ADPE	2310				

ADPE	2315				
ADPE	2320				
ADPE	2335				
ADPE	2340				
TDL	2350				
TDL	2355				
DEPL	2400R	DEPL	2400R	DEPL	2400R
DEPL	2405				
DEPL	2410R	DEPL	2410R	DEPL	2410R
METEM	2600				
METEM	2601				
METEM	2602				
METEM	2603				
METEM	2604R	METEM	2604R	METEM	2604R
METEM	2605R	METEM	2605R	METEM	2605R
METEM	2606R	METEM	2606R		
METEM	2607R	METEM	2607R	METEM	2607R
METEM	2608R	METEM	2608R	METEM	2608R
METEM	2609R	METEM	2609R	METEM	2609R
METEM	2610				
METEM	2611R	METEM	2611R	METEM	2611R
METEM	2612R	METEM	2612R	METEM	2612R
METEM	2613R	METEM	2613R	METEM	2613R
METEM	2614R	METEM	2614R		
METEM	2615R	METEM	2615R	METEM	2615R
METEM	2616R	METEM	2616R	METEM	2616R
METEM	2617R	METEM	2617R	METEM	2617R
METEM	2618R	METEM	2618R		
METEM	2619R	METEM	2619R	METEM	2619R
METEM	2620R	METEM	2620R	METEM	2620R
METEM	2621R	METEM	2621R	METEM	2621R
METEM	2622R	METEM	2622R		
METEM	2623R	METEM	2623R	METEM	2623R
METEM	2624R	METEM	2624R	METEM	2624R
METEM	2625R	METEM	2625R	METEM	2625R
METEM	2626R	METEM	2626R		
METEM	2627R	METEM	2627R	METEM	2627R
METEM	2628R	METEM	2628R		
METEM	2629R	METEM	2629R		
MISSION SKILL (3000 Phase)					
ATTAIN PROFICIENCY		MAINTAIN PROFICIENCY			
BASIC POI		REFRESHER POI		MAINTAIN POI	
STAGE	CODE	STAGE	CODE	STAGE	CODE
MMGT	3200R	MMGT	3200R	MMGT	3200R
ADPE	3300R	ADPE	3300R	ADPE	3300R
TDL	3350R	TDL	3350R	TDL	3350R
TDL	3355				
DEPL	3400R	DEPL	3400R	DEPL	3400R

METEM	3600R	METEM	3600R	METEM	3600R
METEM	3601R	METEM	3601R	METEM	3601R
METEM	3605R	METEM	3605R	METEM	3605R
S PREFIX AND BLUE FONT = SIMULATOR EVENT					
R SUFFIX AND GRAY HIGHLIGHT = R-CODED "REFRESHER" EVENT					

2.5 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.

2.5.1 INSTRUCTOR DESIGNATIONS

METEOROLOGICAL EQUIPMENT MAINTENANCE MOS 5951 INSTRUCTOR DESIGNATIONS (5000 Phase)	
INSTRUCTOR DESIGNATION	**EVENTS**
BASIC INSTRUCTOR (BI)	5000, 5010, 5020
SENIOR INSTRUCTOR (SI)	5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320

2.5.2 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS

METEOROLOGICAL EQUIPMENT MAINTENANCE MOS 5951	
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)	
RCQD	**EVENTS**
Designation as the Basic Instructor (BI)	5000, 5010, 5020
Designation as the Senior Instructor (SI)	5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320
Designation as the METEM Work Center Supervisor (METEM WCS)	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2160, 2165, 2170, 2175, 2201, 2202, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2217, 2218, 2220, 2221, 2223, 2232, 2233, 2234, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2300, 2305, 2310, 2315, 2320, 2335, 2340, 2350, 2355, 2400, 2405, 2410, 2601, 2608, 2609, 2613, 2625, 3200, 3300, 3400, 3600, 3605, 8000, 8020
Designation as the Quality Assurance (QA) Audit Program Manager	2010, 2015, 2020, 2253
Designation as the Central Technical Publications Library (CTPL) Program Manager	2010, 2015, 2020, 2252
Designation as the Technical Directive (TD) Compliance Program Manager	2010, 2015, 2020, 2254
Designation as the Electrostatic Discharge (ESD/EMI) Program Manager	2010, 2015, 2020, 2261
Designation as the Foreign Object Damage (FOD) Prevention Program Manager	2010, 2015, 2020, 2259

Designation as the Corrosion Prevention and Control Program Manager	2010, 2015, 2020, 2250
Designation as the Naval Aviation Metrology and Calibration (METCAL) Program Manager	2010, 2015, 2020, 2257
Designation as the Maintenance Administration Program Manager	2010, 2015, 2020, 2266
Designation as the Naval Aviation Maintenance Discrepancy Reporting (NAMDRP) Program Manager	2010, 2015, 2020, 2258
Designation as the Aircraft Maintenance Material Readiness List (AMMRL) Program Manager	2010, 2015, 2020, 2256
Designation as the Maintenance Department/Division Safety Program Manager	2010, 2015, 2020, 2255
Designation as the Battery Maintenance Safety Program Manager	2010, 2015, 2020, 2262
Designation as the Tool Control Program Manager	2010, 2015, 2020, 2260
Obtain Naval Aviation Quality Assurance Administration Certification	MUST ATTEND FORMAL COURSE
Obtain CPR certification	MUST ATTEND FORMAL COURSE
Obtain Aeronautical Technical Publications Library certification	MUST ATTEND FORMAL COURSE
Obtain Hazard Material Program Manager Certification	MUST ATTEND FORMAL COURSE
Corrosion Control Certification	MUST ATTEND FORMAL COURSE
Obtain Maintenance Control certification	MUST ATTEND FORMAL COURSE
Qualification as a METEM Basic Technician (MBT)	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2165, 2175, 2201, 2202, 2204, 2205, 2207, 2209, 2210, 2214, 2215, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2405, 2410, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2610, 2611, 2612, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2626, 2627, 2628, 2629, 8000
Qualification as a METEM Advanced Technician (MAT)	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2160, 2165, 2170, 2175, 2201, 2202, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2217, 2218, 2220, 2221, 2223, 2232, 2233, 2234, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2300, 2305, 2310, 2315, 2320, 2335, 2340, 2350, 2355, 2400, 2405, 2410, 2601, 2608, 2609, 2613, 2625, 3200, 3300, 3605, 8000, 8020

2.6 5951 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.

2.6.1 Basic POI

METEM MAINTENANCE 5951

BASIC POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
0-28	CORE SKILL INTRODUCTION TRAINING	KEESLER AFB
29-52	CORE SKILL TRAINING	TACTICAL SQUADRON
29- 52	MISSION SKILL TRAINING	TACTICAL SQUADRON
VARIES	CORE PLUS	TACTICAL SQUADRON

2.6.2 Refresher POI

METEM MAINTENANCE MOS 5951 REFRESHER POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
VARIES	CORE SKILL TRAINING	TACTICAL SQUADRON
VARIES	MISSION SKILL TRAINING	TACTICAL SQUADRON
VARIES	CORE PLUS	TACTICAL SQUADRON

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

2.7 SYLLABUS NOTES

2.7.1 Environmental Conditions Matrix

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

2.7.2 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.

DEVICE	
Symbol	**Meaning**
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.	

2.7.3 Program of Instruction Matrix

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

2.7.4 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.)

2.8 ACADEMIC PHASE (0000)

2.8.1 Purpose. **RESERVED FOR FUTURE USE**

2.8.2 General

2.8.2.1 Prerequisite. None

2.8.2.2 Admin Notes. None

2.8.2.3 Stages. None

2.9 CORE SKILL INTRODUCTION PHASE (1000)

2.9.1 Purpose. To provide entry level instruction to develop the basic skills necessary to become a MOS 5951 METEOROLOGICAL EQUIPMENT TECHNICIAN (METEM). This training is completed upon graduation from the Meteorological Equipment Technician Course.

2.9.2 General

2.9.2.1 Prerequisite. Meet the requirement delineated in the MOS Manual (MCO 1200.17_).

2.9.2.2 Admin Notes. None

2.9.2.3 Stages. The following stage is included in the Core Skill Introduction Phase of training.

PAR NO.	STAGE NAME
2.9.3	MARINE AIR TRAFFIC CONTROL LANDING SYSTEMS (MATCLS)

2.9.3 MARINE AIR TRAFFIC CONTROL LANDING SYSTEMS (MATCLS) STAGE

2.9.3.1 Purpose. To provide the Marines assigned to MOS 5951 with the knowledge and skills necessary to install, test, maintain, and repair meteorological equipment used in support of MAGTF operations.

2.9.3.2 General

Prerequisite

a. Graduate from the Electronic Principles Course (CID: F02CWW1);

b. Meet the 5951 requirements delineated in the MOS Manual.

Admin Notes. Attend Meteorological Equipment Maintenance Course (CID: F022811), CNATTU, located at Keesler AFB Biloxi, MS.

Crew Requirements. None

MATCLS-1100 * B E G

Goal. Perform corrective maintenance to the LRU for the AN/UMK-4

Requirement. Given the references and inoperative meteorological sensing equipment, complete the following steps:

1. Adhere to safety requirements
2. Research applicable technical data pertaining to faulty equipment
3. Read schematic diagrams

4. Ensure proper handling of ESD components
5. Set up test equipment
6. Connect test equipment
7. Measure basic circuit performance
8. Trace signal paths
9. Trace current/voltage paths
10. Identify faulty subassembly(s)

Performance Standard. Pass an exam

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-010 Operations and Maintenance Instruction

MATCLS-1105 * B E G

Goal. Perform corrective maintenance to the LRU for the AN/TMQ-56

Requirement. Given the references and inoperative meteorological system, complete the following steps:

1. Adhere to safety requirements
2. Research applicable technical data pertaining to faulty equipment
3. Read schematic diagrams
4. Ensure proper handling of ESD components
5. Set up test equipment
6. Connect test equipment
7. Measure basic circuit performance
8. Trace signal paths
9. Trace current/voltage paths
10. Identify faulty subassembly(s)

Performance Standard. Pass an exam

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-010 Operations and Maintenance Instruction
2. 0222840_Interconnect Diagram
3. 7052526_Rev D Wiring Diagram

MATCLS-1110 * B E G

Goal. Setup the subsystems of the AN/TMQ-56

Requirement. As a member of a crew, given tools, the reference and AN/TMQ-56, setup each subsystem below:

1. Broad-band global area network
2. Meteorological satellite subsystem
3. Local sensor subsystem
4. Remote sensor subsystems
5. Upper Air Subsystem
6. Meteorological radar subsystem

Performance Standard. Pass an exam

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

MATCLS-1115 * B E G

Goal. Pack the AN/TMQ-56

Requirement. As a member of a crew, given tools, the reference and AN/TMQ-56, pack the subsystems:

1. Broad-band global area network
2. Meteorological satellite subsystem
3. Local sensor subsystem
4. Remote sensor subsystems
5. Upper Air Subsystem
6. Meteorological radar subsystem

Performance Standard. Pass an exam

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

MATCLS-1120 * B E G

Goal. Setup the subsystems of the AN/UMK-4

Requirement. Given the reference and AN/UMK-4, setup the system

Performance Standard. Pass an exam

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-010 Operation and Maintenance Instruction

MATCLS-1125 * B E G

Goal. Pack the AN/UMK-4

Requirement. Given the reference and AN/UMK-4, pack the system

Performance Standard. Pass an exam

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-01 Operation and Maintenance Instruction

MATCLS-1130 * B E G

Goal. Configure the data network of the tactical meteorological equipment to communicate with external networks

Requirement. Given the reference, perform the following:

1. Configure network devices
2. Configure workstations

Performance Standard. Pass an exam

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-PR-SAM-B1 System Administration Manual
2. 0222562 Network Administration Manual

2.10 CORE SKILL TRAINING (2000)

2.10.1 Purpose. To develop core skill proficiency for 5951 personnel to be able to perform duties while assigned to the METEM section.

2.10.1.1 Basic METEM Technicians (MBT) will gain core skill proficiency in basic operations and maintenance of unit-specific METOC sensing, radar, satellite receiving, communications, and product generation/dissemination systems as well as maintenance practices and procedures.

2.10.1.2 Advance METEM Technicians (AMT) will gain core skill proficiency in advanced system administrator functions and basic maintenance management supervisory roles.

2.10.2 General

2.10.2.1 Prerequisiste. All Core Skill Introduction Training must be completed prior to beginning this phase of training.

2.10.2.2 Admin Notes

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

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

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

PAR NO.	STAGE NAME
2.10.3	ORIENTATION (ORNT)
2.10.4	FIRST AID AND SAFETY (FAS)
2.10.5	EQUIPMENT (EQPT)
2.10.6	TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE)
2.10.7	COMMUNICATION SECURITY (SEC)
2.10.8	MAINTENANCE MANAGEMENT (MMGT)
2.10.9	NAVAL AVIATION MAINTENANCE PROGRAM (NAMP)
2.10.10	AUTOMATED DATA PROCESSING EQUIPMENT (ADPE)
2.10.11	TACTICAL DATA LINKS (TDL)
2.10.12	DEPLOYMENT (DEPL)
2.10.13	METEOROLOGICAL EQUIPMENT MAINTENANCE (METEM)

2.10.3 ORIENTATION (ORNT) STAGE

2.10.3.1 Purpose. To provide an overview of local site layout, procedures, equipment, and emergency conditions.

2.10.3.2 General

Prerequisite. None

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

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

ORNT-2000 3.0 * B,R E G

Goal. Describe the characteristics of the different types of power sources used by the MATCD

Requirement. Describe the following:

1. All organic tactical power sources within the MATCD
   a. Wattage
   b. Voltage
   c. Slaving
   d. Phases
   e. Frequency
2. Shore power requirements
   a. Wattage
   b. Voltage
   c. Slaving
   d. Phases
   e. Frequency

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM-9-6115-642-10

2. TM-9-6115-644-10
3. TM-9-6115-645-10
4. TM-9-6115-729-10
5. TM 12359A-OD/B
6. TM 12359A-OD/C
7. 16-70TSQ216-410

ORNT-2005 2.0 365 B,R,M E G

Goal. State the organizational destructive weather plan

Requirement. Given the references, state the following:

1. When to shift from shore power to auxiliary power
2. Equipment required to be packed and/or stored in order to prevent damage
3. Locations systems and equipment are to be stored during inclement weather
4. The precautions to take to prevent damage to equipment
5. Location of destructive weather prevention materials

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. OPNAVINST 3140.24_
2. Unit SOP
3. NAVAIR 00-80T-114

ORNT-2010 4.0 365 B,R,M E G

Goal. Complete NAMP indoctrination training

Requirement. Complete the following NAMP Indoctrination training:

1. Maintenance training
2. QA audit
3. Safety
4. NAMDRP
5. FOD
6. Tool Control
7. Corrosion
8. CTPL
9. METCAL
10. HAZMAT

11. Technical Directives
12. Maintenance Control
13. Material Control
14. AMMRL
15. Battery

Performance Standard. Pass a test (oral, practical, written) with 80% within 30 days of checking into an MATCD

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

2.10.4 FIRST AID AND SAFETY (FAS) STAGE

2.10.4.1 Purpose. This stage of training will provide training in safety and NAVOSH annual requirements.

2.10.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

FAS-2015 8.0 365 B,R,M L

Goal. Complete Naval Occupational Safety and Health (NAVOSH) initial/annual training

Requirement. Complete the following training within 30 days upon arrival to a unit and subsequently in accordance with the refly interval:

1. Identification of key personnel and chain of command
2. Mishap Reporting
3. HAZARD Identification
4. Safety Precautions and Standards
5. First Aid and Survival Training
6. Mishap Prevention
7. Back Injury Prevention
8. Hearing Conservation
9. Sight Conservation
10. Fire Prevention/Equipment

11. Radio Frequency Radiation
12. Asbestos Hazards
13. Lead
14. Man-Made Mineral Fiber
15. Confined Space Entry
16. Hazard Communication
17. Hazard Communication OJT (MSDS)
18. Cardiopulmonary Resuscitation (CPR)
19. First Aid
20. Battery Safety

Performance Standard. Complete all requirements

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. OPNAVINST 5100.23
2. COMNAVAIRFORINST 4790.2

FAS-2020 1.0 90 B,R,M L

Goal. Complete Naval Occupational Safety and Health (NAVOSH) initial/quarterly training

Requirement. Complete the following training within 30 days upon arrival to an unit and subsequently in accordance with the refly interval:

1. First Aid
2. Battery Safety

Performance Standard. Complete all requirements

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. OPNAVINST 5100.23
2. COMNAVAIRFORINST 4790.2

2.10.5 EQUIPMENT (EQPT) STAGE

2.10.5.1 Purpose. . This stage of training will build on core skills gained in the formal school environment by providing proficiency in system specific operations, maintenance, and configuration procedures.

2.10.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

EQPT-2050 2.0 1095 B,R,M E L

Goal. Operate the handheld GPS

Requirement. Perform the following:

1. State the purpose of the handheld GPS
2. State the characteristics of the handheld GPS
3. Find current location (coordinates including elevation)
   a. MGRS
   b. LAT/LONG
   c. UTM/UPS
4. Plot a way point
5. Given coordinates, navigate to a location
6. Load TOD into a radio
7. Fill the DAGR with the appropriate crypto for precision positioning system (PPS) operations

Performance Standard. Given a handheld GPS, complete the requirements without error. Navigation part of requirement will be three points within a one mile radius within one hour

Instructor. BI,SI

Prerequisite. 2150, 2175

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 11-5820-1172-13

EQPT-2055 1.0 365 B,R,M L

Goal. Demonstrate an earth ground installation

Requirement. Given a grounding kit and the reference:

1. Identify ground tolerances for equipment and personnel
2. Identify methods of grounding
3. Identify a method for improving a ground
4. Identify proper location to test a ground
5. Install an earth ground
6. Create grounding pits
7. Connect grounding braids/cables
8. Test grounds with TMDE

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2100

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 9406-15, Ground Procedures Manual

2.10.6 TEST MEASUREMENT DIAGNOSTIC EQUIPMENT (TMDE) STAGE

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

2.10.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

TMDE-2100 2.0 1095 B,R,M E L

Goal. Operate 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. Adhere to safety procedures

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 10069A-14, Ground Resistance Ohmmeter

TMDE-2115 1.0 1095 B,R,M L

Goal. Operate an oscilloscope

Requirement. Given the references and an oscilloscope:

1. State the purpose of an oscilloscope
2. Verify calibration is current
3. Measure voltage
4. Measure frequency

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Manufacturer's user's manual

2.10.7 COMMUNICATION SECURITY (SEC) STAGE

2.10.7.1 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.

2.10.7.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

SEC-2150 2.0 365 B,R,M E G

Goal. State the requirements for 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 purpose of Standards Forms related to the handling and storage of classified materials
7. Identify the approved security containers for storage
8. Identify the procedures for handling Controlled Cryptographic Items (CCIs)
9. Review the unit's Emergency Action Plan

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P5510.18_
2. EKMS-1_
3. SECNAVINST 5510.36
4. Unit SOP

SEC-2155 1.0 * B,R E G

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. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2150

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P5530.14_

SEC-2160 2.0 * B,R E 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. 2150, 2155

Ordnance. None

Range. None

External Syllabus Support. None

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

SEC-2165 1.0 * B,R 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 inventories and destroy key materials without discrepancy

Instructor. BI,SI

Prerequisite. 2150

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EKMS-1_
2. SECNAVINST 5510
3. Local SOP

SEC-2170 2.0 * B,R 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. 2150

Ordnance. None

Range. None

External Syllabus Support. None

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

SEC-2175 2.0 * B,R L

Goal. Operate a common fill device

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

1. Describe the purpose of a 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 key material within the cryptographic fill device

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

Instructor. BI,SI

Prerequisite. 2150

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EKMS-1_

2.10.8 MAINTENANCE MANAGEMENT (MMGT) STAGE

2.10.8.1 Purpose. To provide the technician with the basic skills necessary to perform basic and intermediate maintenance shop section functions.

2.10.8.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-2201 3.0 * B,R L/S

Goal. Open a Maintenance Action Form (MAF)

Requirement. Given the reference, perform the following:

1. State the purpose of the sections of a MAF
2. Validate the unit and contact section
3. Enter equipment data
4. Enter maintenance data
5. Enter parts data
6. Enter man-hour data
7. Save MAF

Performance Standard. With the aid of reference, complete the

requirements. Minor errors are acceptable

Instructor. BI,SI

Prerequisite. 2205, 2207, 2210

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MAF-IA OMI
2. COMNAVAIRFORINST 4790.2_
3. Applicable TMs

MMGT-2202 1.0 * B,R L

Goal. Close an existing MAF

Requirement. Given the reference, perform the following:

1. Verify the accuracy of all data entered into the MAF
2. Enter man-hour data
3. Sign MAF
4. Enter close date

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

Instructor. BI,SI

Prerequisite. 2201, 2204, 2205, 2207, 2210

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MAF-IA OMI
2. COMNAVAIRFORINST 4790.2_
3. Applicable TMs
4. NAVSUP Publication P-485, Afloat Supply Procedures
5. SPCCINST 4441.170A, COSAL Use and Maintenance Manual

MMGT-2204 1.0 * B,R E G

Goal. State the purpose of each specialty MAF in the Maintenance Action Form In Access (MAF-IA) Program

Requirement. State the purpose of each specialty MAF:

1. Cancelled MAF
2. Canabalization MAF
3. FSTSD Payback MAF
4. Shop Overhead Restock MAF
5. Funds transfers MAF
6. Tools MAF
7. Transfer and acceptance MAF
8. Technical Directive MAF

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2201, 2205, 2207, 2210

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MAF-IA OMI

MMGT-2205 2.0 * B,R E G

Goal. Identify parts data from Coordinated Shipboard Allowance List (COSAL)

Requirement. Perform the following:

1. Discuss the purpose of the COSAL
2. Research parts using the COSAL
   a. Part number
   b. Nomenclature
   c. NIIN
3. Identify Source Maintenance and Recoverability (SMR) codes for system components and explain what level of maintenance is authorized
4. Identify operating space items and store room items

Performance Standard. With the aid of reference, given part number, nomenclature, or NIIN, identify parts data from COSAL without error

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. NAVICPINST 4441.170_
2. Unit COSAL
3. NAVSUPINST 4423.29

MMGT-2206 1.0 * B,R S/L

Goal. Submit a COSAL Feedback report

Requirement. Given the reference, perform the following:

1. State the purpose of the COSAL feedback report
2. Draft a COSAL feedback report
3. State the procedures for submitting a COSAL feedback report

Performance Standard. With the aid of reference, submit a COSAL feedback report to the instructor without error

Instructor. BI,SI

Prerequisite. 2205

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVICPINST 4441.170_
2. Unit COSAL

MMGT-2207 2.0 * B,R E G

Goal. Identify parts data from sources other than COSAL

Requirement. Given the reference, perform the following:

1. State sources other than COSAL that can be used to obtain parts data
2. Research parts using sources other than COSAL
   a. Part number
   b. Nomenclature
   c. NIIN
3. Identify Source Maintenance and Recoverability (SM & R) codes for system components and explain what level of maintenance is authorized

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2205

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVICPINST 4441.170_
2. FEDLOG
3. NAVSUP P-485
4. NAVSUPINST 4423.29
5. NAVSUP P-409 MILSTRIP/MILSTRAP DESKTOP GUIDE

MMGT-2208 2.0 * B,R S/L

Goal. Draft a Naval Message

Requirement. Given a scenario and references, draft a Naval Message including the following:

1. Provide standard subject line identification
2. Provide accurate PLADs for intended recipients
3. Provide actions required for outside assistance
4. Assign Security Label
5. Submit a draft Naval Message to the instructor
6. State the process for release of a Naval Message

Performance Standard. With the aid of reference, draft a Naval Message without error and submit to the instructor

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NWP 1-03.1
2. Local SOP
3. SECNAVINST 5216.5

MMGT-2209 1.0 * B,R E G

Goal. Explain the information contained in the logs and records maintained in production control

Requirement. Given a historical record and reference, explain the following:

1. Custody and maintenance history record
2. Transfer and acceptance checklist
3. Shortage records

4. Inventory record

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2

MMGT-2210 1.0 730 B,R,M E G

Goal. Determine the readiness status from the Mission Essential Subsystem Matrix (MESM)

Requirement. Given the reference, and a scenario of a subsystem failure, determine the Equipment Operational Capability using the MESM for the correlating T/M/S:

1. State the purpose of the MESM
2. Determine the Equipment Operational Capability (EOC)

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. OPNAVINST 5542.4

MMGT-2211 2.0 * B,R E G

Goal. State the information contained in the allowance lists

Requirement. State the information contained in the following:

1. Users Logistics Support Summary
2. Table of Basic Allowance
3. Marine Air Traffic Control and Landing Systems (MATCALS) equipment

allowance list

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVAIR ATC-37-02
2. TM 3125-OI/1
3. Fleet Marine Forces Air Traffic Control (FMFATC) Systems and Marine Air Traffic Control and Landing Systems (MATCALS) Equipment Allowance List

MMGT-2212 2.0 365 B,R,M E G

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. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCRP 3-40B
2. MCO 2400.2

MMGT-2213 1.0 365 B,R,M L

Goal. Record equipment readiness using Aviation Management Supply and

Readiness Reporting (AMSRR) system

Requirement. Given user access and MAF, complete the following:

1. Create a maintenance discrepancy
2. Create a supply discrepancy
3. Input and update data to the required fields

Performance Standard. Complete the requirements without error

Instructor. BI,SI

Prerequisite. 2201, 2202, 2204, 2205, 2207, 2210

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AMSRR Web 3.01 Software User Manual (SUM)

MMGT-2214 3.0 * B,R E G

Goal. Describe the Planned Maintenance System (PMS)

Requirement. State the following:

1. Organizational structure
   a. Key billets
   b. Responsibilities of key billets
2. Contents of the Work Center PMS Manual
   a. List of Effective Pages (LOEP)
   b. Maintenance Index Page (MIP)
   c. Maintenance Requirement Card (MRC)
   d. SCAT code
   e. SPMIG
   f. Equipment Guide List (EGL)
   g. Tagged Guide List (TGL)
   h. Technical Feedback Reports log (TFR)
   i. Supersede Log (SL)

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVSEAINST 4790.8_

MMGT-2215 1.0 * B,R L

Goal. Document the completion of preventive maintenance using the 13-Week Accountability log

Requirement. Perform the following:

1. State the purpose of the schedules
   a. Weekly
   b. Quarterly
   c. Cycle
2. State the purpose of the 13-Week Accountability log
3. Document the completion of PMs on the 13-Week Accountability log
4. Review situational requirements
5. Identify PMS discrepancies/issues that require Work Center Supervisor notification

Performance Standard. Given an example weekly schedule (with at least two pieces of equipment), document the completion of preventive maintenance without error

Instructor. BI,SI

Prerequisite. 2214

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVSEAINST 4790.8_
2. COMNAVAIRFORINST 4790.2_

MMGT-2217 3.0 1095 B,R,M L/S

Goal. Perform a PMS revision

Requirement. Perform the following:

1. Force revision
2. Administrative revision
3. Advance Change Notice
4. Verify the accuracy of the TGL and EGL from the Work Center file
   a. Identify the location of a TGL and EGL
   b. Define the purpose of a TGL and EGL
   c. Identify the proper steps to updating the Work Center file from the accuracy of the TGL and EGL

Performance Standard. Complete the requirement without error

Instructor. BI,SI

Prerequisite. 2214, 2215

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVSEAINST 4790.8_

MMGT-2218 3.0 1095 B,R,M L/S

Goal. Build a Work Center

Requirement. Given the SKED program and the current PMS CD perform the following:

1. Build a work center using SKED
   a. Verify that all MIPS listed on the LOEP are installed in SKED
   b. Add components/equipped systems under the Listed MIPS
   c. Ensure that the appropriate MRCs are added/deleted under the component in accordance with the scheduling aids
   d. Start Semiannual and above MRCs in a particular quarter
   e. Verify that all MRCs are within the required periodicity range
   f. Schedule PMS
      (1) Cycle PMS Schedule
      (2) Quarterly PMS schedule
      (3) Weekly PMS schedule
   g. Using the SKED program, generate/update a crew list
   h. Finalize the quarter

Performance Standard. Complete the requirement without error

Instructor. BI,SI

Prerequisite. 2214, 2215, 2217

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVSEAINST 4790.8_

MMGT-2220 1.0 * B,R L

Goal. Submit PMS feedback reports

Requirement. Perform the following:

1. State the purpose of a Feedback reports (FBR)
2. Prepare a Non-technical feedback report
3. Prepare Technical Feedback report

Performance Standard. Complete the requirement without error

Instructor. BI,SI

Prerequisite. 2214, 2215

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVSEAINST 4790.8_

MMGT-2221 2.0 730 B,R,M L

Goal. Develop an embarkation plan

Requirement. Given the references and an 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
5. Identify the modes of transportation required

Performance Standard. With the aid of reference, complete the requirement and develop an embarkation plan to support the scenario. Minor corrections by the trainee are acceptable

Instructor. BI,SI

Prerequisite. 2205, 2232, 2234, 3200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable TM
2. Unit SOP

MMGT-2223 4.0 * B,R L

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

Requirement. Given Training Exercise and Employment Plan (TEEP) documents and reference, 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 required 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. With the aid of reference, perform the requirements. Minor corrections 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

MMGT-2232 1.0 * B,R L

Goal. Write an Equipment Density List (EDL)

Requirement. Given the references, perform the following:

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

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

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
3. Applicable TM

MMGT-2234 4.0 * B E G

Goal. Explain MATCD Supply Functions

Requirement. Explain the following supply functions in accordance with the references:

1. Operation of the Navy Supply System
2. Functions of the Aviation Supply Departments (ASD, within a Marine Aviation Logistic Squadron (MALS)
3. Federal Logistic Data (FEDLOG) operations in management of supply support
4. Military Standard Requisitioning and Issue Procedures (MILSTRIP)
5. Product Quality Deficiency Reports
6. Supply Discrepancy Reports

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVSUP PUB P-485 VOL. I, II, III
2. NAVSUP PUB P-719
3. NAVSUP INSTR-4423.29
4. NAVSUP PUB P-409
5. MCO P4400.177_
6. SPCCINST 4441.170_

2.10.9 NAVAL AVIATION MAINTENANCE PROGRAM (NAMP) STAGE

2.10.9.1 Purpose. To familiarize the trainee with the COMNAVAIRFORINST 4790.2_, Naval Aviation Maintenance Program (NAMP).

2.10.9.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

NAMP-2250 3.0 90 B,R,M E G

Goal. State the responsibilities of the Corrosion Control Program within the Work Center

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2251 3.0 * B,R E G

Goal. State the responsibilities of the Hazmat Program within the Work Center

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2252 2.0 90 B,R,M E G

Goal. State the responsibilities of the CTPL Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2253 3.0 * B,R E G

Goal. State the responsibilities of the Quality Assurance Audit Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2254 2.0 * B,R E G

Goal. State the responsibilities of the TD compliance Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2255 4.0 * B,R E G

Goal. State the responsibilities of the Safety Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2256 1.0 * B,R E G

Goal. State the responsibilities of the AMMRL Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2257 1.0 * B,R E G

Goal. State the responsibilities of the METCAL Program

Requirement. State the following:

1. Purpose of the billet
2. Chapters/pages within the references which are applicable to the

program
3. Purpose of the CSEC
   a. Explain the purpose of each question within the CSEC
   b. Identify the pages within the reference where more information can be found regarding the CSEC question

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2258 2.0 * B,R E G

Goal. State the responsibilities of the NAMDRP

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2259 2.0 * B,R E G

Goal. State the responsibilities of the FOD Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2

NAMP-2260 2.0 180 B,R,M E G

Goal. State the responsibilities of the Tool Control Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. COMNAVAIRFORINST 4790.2_

NAMP-2261 2.0 * B,R E G

Goal. State the responsibilities of the ESD/EMI Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2262 2.0 * B,R E G

Goal. State the responsibilities of the Battery Maintenance Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

NAMP-2265 2.0 * B,R E G

Goal. State the responsibilities of the Maintenance In-Service Training Program

Requirement. State the following:

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

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

2.10.10 AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) STAGE

2.10.10.1 Purpose. To provide training to the Marine in ADP Equipment available to the METOC section.

2.10.10.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

ADPE-2300 16.0 * B L

Goal. Configure Networks

Requirement. Given a network, perform the following:

1. Acquire appropriate Internet Protocol (IP) address settings from external communication agency
2. Configure internet protocol address settings
3. Ensure proper node to node communication
4. Ensure external internet based communications via default gateway
5. Configure ACL within router

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

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. 0222562 Network Administration Manual
2. EE100-PR-SAM-B10 System Administration Manual

ADPE-2305 2.0 * B E G

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

Requirement. Given references, network switch, router, server, and workstation complete the following:

1. State the purpose for each to include firmware and hardware components
2. State the characteristics of the operating system
3. State the connectivity and association of the user interface

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable user manuals
2. 0222562 Network Administration Manual

3. EE100-PR-SAM-B10 System Administration Manual

ADPE-2310 4.0 * B L

Goal. Setup network equipment

Requirement. Given a site diagram, required preconfigured equipment, and references, perform the following:

1. Emplace components
2. Make a straight through Ethernet cable as required
3. Make a crossover Ethernet cable as required
4. Cable components
5. Energize components
6. Conduct operational status check
7. Document as required

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

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Appropriate end item user manuals
2. NAVAIR 16-60TSQ263-1
3. 0222562 Network Administration Manual
4. EE100-PR-SAM-B10 System Administration Manual

ADPE-2315 4.0 * B L

Goal. Configure workstation

Requirement. Given an emplaced system, perform the following:

1. Energize workstation
2. Configure workstation
   a. Host name
   b. IP address
3. Conduct operational status check
4. Document any changes to system configuration as required

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

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Appropriate end item user manuals
2. NAVAIR 16-60TSQ263-1
3. 0222562 Network Administration Manual
4. EE100-PR-SAM-B10 System Administration Manual

ADPE-2320 4.0 * B L

Goal. Install ADPE operating system software

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

1. Configure BIOS
2. Restore operating system from clone/backup/system image
3. Update to current software release
4. Configure operating system as required
5. Document changes to system configuration

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

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable user manuals
2. NAVAIR 16-60TSQ263-1
3. 0222562 Network Administration Manual
4. EE100-PR-SAM-B10 System Administration Manual
5. EE100-PR-GYD-B10 Software Installation Guide

ADPE-2335 1.0 * B L

Goal. Configure ADPE C2 application software

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

1. Configure C2 system software as required
2. Document changes to system configuration

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

Instructor. BI,SI

Prerequisite. 2015, 2020, 2320

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable user manuals
2. 0222561 Software User Manual

ADPE-2340 4.0 * B L

Goal. Apply Software release updates

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

1. Schedule software release installation
2. Install software release updates
3. Test system software and applications
4. Backup systems as required
5. Document as required

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

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable user manuals

2.10.11 TACTICAL DATA LINKS (TDL) STAGE

2.10.11.1 Purpose. To provide initial training to the Marine in tactical data links.

2.10.11.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

TDL-2350 1.0 * B E G

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

Requirement. Given the references:

1. Define Joint Range Extension Application Protocol (JREAP)
2. List the capabilities of JREAP
3. Define the following terms associated with JREAP:
   a. Common Time Reference
   b. Demand Access Multiple Access (DAMA)
   c. BLOS gateway
   d. Network Controller
   e. Source Track Number
   f. Link 16 Zone
   g. Multicast
   h. Packet
   i. Port
   j. Secondary Track Number
   k. Token Passing
   l. Transmission Sequence List
   m. Unicast

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2355

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSM 6120.01E, Joint Multi-TDL Operating Procedures (JMTOP) Manual
2. MIL-STD-3011A, Department of Defense Interface Standard for the Joint Range Extension Application Protocol

TDL-2355 4.0 * B E G

Goal. State characteristics of Tactical Data Links (TDL)

Requirement. Given the references, state the characteristics of each data link

1. Link 11
   a. UHF

b. HF
2. Link 11B
3. TDL J
a. JREAP A
b. JREAP B
c. JREAP C
d. Link 16
4. List the units that use each link
5. Intelligence Broadcast System (IBS)

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. TM 10498B-OD TAOM Operations Maintenance Manual
2. TM 10200A-OI/1 ADCP Maintenance Manual
3. TO 31S5-2TYQ123-8-1 JRE Operations and Maintenance

2.10.12 DEPLOYMENT (DEPL) STAGE

2.10.12.1 Purpose. To provide the technician the necessary skills to be able to deploy a meteorological maintenance section, to include training in understanding OPORDs, crew management, system configuration management, and proper emplacement procedures.

2.10.12.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

DEPL-2400 2.0 1095 B,R,M L

Goal. Conduct a maintenance section site evaluation

Requirement. Given the reference, perform the following:

1. Identify terrain requirements
2. Identify physical blocking obstructions
3. Identify radio frequency hazards (HERO, HERP, and HERF)
4. Identify utility requirements
5. Describe environmental consideration

6. Identify required external equipment
7. Identify required internal equipment
8. Identify equipment placement requirements

Performance Standard. Given a specified location determine the suitability of the site IAW appropriate reference as verified by instructor

Instructor. BI,SI

Prerequisite. 2015, 2020, 2150, 2155

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVAIR 00-80T-114
2. Unit SOP
3. Applicable TM
4. MCWP 3-25.8

DEPL-2405 2.0 * B E G

Goal. State the required coordination between maintenance personnel and the ATC watch supervisors

Requirement. Perform the following:

1. Describe procedures for an equipment outage
2. Describe procedures for returning equipment to service
3. Describe the purpose of a Notice to Airmen (NOTAM)
4. State the timeframe requirements for NOTAM
5. State the purpose of a Commander's Critical Information Requirements (CCIR)

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVAIR 00-80T-114
2. Unit SOP

DEPL-2410 1.0 1095 B,R,M E G

Goal. State the purpose of a flight Inspection

Requirement. State the following:

1. Describe the purpose of an FAA flight inspection
   a. Commissioning
   b. Periodic
   c. Special
   d. Site-evaluation
   e. Surveillance
2. Describe the role of each work center to include air traffic controllers during an FAA flight inspection

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVAIR 16-1-520
2. NAVAIR 00-80T-114
3. FAAO 8200.1_

2.10.13 METEOROLOGICAL EQUIPMENT MAINTENANCE (METEM) STAGE

2.10.13.1 Purpose. To provide the Marines with the knowledge and skills necessary to install, test, maintain, and repair meteorological equipment used in support of MAGTF operations.

2.10.13.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

METEM-2600 1.0 * B E G

Goal. State the capabilities of the AN/TMQ-56

Requirement. Identify the capabilities of the following:

1. Surface sensing system

2. Radar system
3. Meteorological satellite system
4. Upper air system
5. Communications system
6. Product generation and dissemination system

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

METEM-2601 1.0 * B E G

Goal. State the deployment consideration for the AN/TMQ-56

Requirement. Given an AN/TMQ-56 deployment scenario, state the following:

1. Embarkation requirements
2. Frequency requirements
3. Appropriate site selection criteria
4. Personnel requirements
5. Equipment support requirements
   a. Power
   b. Transport
6. Security requirements
7. Network connectivity requirements

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

METEM-2602 1.0 * B E G

Goal. State the capabilities of the AN/UMK-4

Requirement. Identify the capabilities of the following:

1. Surface sensing system
2. Communications system
3. Product generation and dissemination system

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2603 1.0 * B E G

Goal. State the deployment consideration for the AN/UMK-4

Requirement. Given a AN/UMK-4 deployment scenario, state the following:

1. Embarkation requirements
2. Appropriate site selection criteria
3. Personnel requirements
4. Internal and external support requirements
   a. Power
   b. Transport
   c. Shelter
5. Security requirements
6. Network connectivity requirements

Performance Standard. Pass a test (oral, practical, or written exam) with 80%

Instructor. BI,SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2604 1.0 730 B,R,M L

Goal. Setup surface meteorological sensing system

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements
2. Unpack the equipment
3. Setup meteorological sensing equipment
4. Ground the system

Performance Standard. With the aid of reference, complete the requirement without error. The surface meteorological system must be setup within 45 minutes

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2605 2.0 730 B,R,M L

Goal. Perform post setup procedures on surface meteorological sensing system

Requirement. Given the reference, a setup surface meteorological sensing system, demonstrate the following:

1. Apply power
2. Verify no alarm condition
3. Align the system
4. Enter site specific parameters
5. Set station ID

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 0222561 Software User Manual
3. EE100-FF-OMI-01 Operation and Maintenance Instruction
4. EE100-PR-SAM-B1 System Administration Manual

METEM-2606 1.0 * B,R L

Goal. Perform replacement procedures to the LRU for surface meteorological sensing system

Requirement. Given the reference, a surface meteorological sensing system, demonstrate the following:

1. Identify all tools required for replacement procedures
2. Perform replacement
3. Return system to an operational status

Performance Standard. With the aid of reference, complete the requirement without error. Trainee must replace two LRUs

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2607 1.0 730 B,R,M L

Goal. Pack the meteorological surface sensing system

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials
2. Disassemble the system
3. Pack the system

Performance Standard. With the aid of reference, complete the

requirement without error

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide
3. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2608 2.0 730 B,R,M L

Goal. Setup the meteorological radar subsystem for integrated operation

Requirement. As a member of a crew, given tools, the reference and a meteorological radar subsystem, complete the following steps:

1. Identify personnel and safety requirements
2. Unpack the equipment
3. Setup meteorological radar equipment
4. Ground the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. E700XD Doppler Weather Radar Installation Guide and Users Manual

METEM-2609 2.0 730 B,R,M L

Goal. Perform post setup procedures on the meteorological radar subsystem for integrated operation

Requirement. Given the reference, a setup meteorological radar subsystem, demonstrate the following:

1. Apply power
2. Verify no alarm condition
3. Align the system
4. Enter site specific parameters
5. Set station ID

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 0222561 Software User Manual
3. E700XD Doppler Weather Radar Installation Guide and Users Manual

METEM-2610 3.0 * B L

Goal. Perform replacement procedures to the LRU for meteorological radar subsystem

Requirement. Given the reference, a meteorological radar subsystem, demonstrate the following:

1. Identify all tools required for replacement procedures
2. Perform replacement
3. Return system to an operational status

Performance Standard. With the aid of reference, complete the requirement without error. Trainee must replace two LRUs

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. E700XD Doppler Weather Radar Illustrated Parts Breakdown

METEM-2611 2.0 730 B,R,M L

Goal. Pack the meteorological radar subsystem

Requirement. Given the reference, an assembled meteorological radar subsystem, perform the following:

1. Inventory equipment and materials
2. Disassemble the system
3. Pack the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide
3. E700XD Doppler Weather Radar Installation Guide and Users Manual

METEM-2612 1.0 730 B,R,M L

Goal. Setup the meteorological satellite subsystem

Requirement. As a member of a crew, given tools, the reference and a surface meteorological satellite system, complete the following steps:

1. Identify personnel and safety requirements
2. Unpack the equipment
3. Setup meteorological satellite equipment
4. Ground the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

METEM-2613 1.0 730 B,R,M L

Goal. Perform post setup procedures on the meteorological satellite subsystem

Requirement. Given the reference, a setup meteorological satellite subsystem, demonstrate the following:

1. Apply power
2. Verify no alarm condition
3. Align the system
4. Enter site specific parameters

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

METEM-2614 1.0 * B,R L

Goal. Perform replacement procedures to the LRU for the meteorological satellite subsystem

Requirement. Given the reference, a meteorological satellite subsystem, demonstrate the following:

1. Identify all tools required for replacement procedures
2. Perform replacement
3. Return system to an operational status

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

METEM-2615 1.0 730 B,R,M L

Goal. Pack the meteorological satellite subsystem

Requirement. Given the reference, an assembled meteorological satellite subsystem, perform the following:

1. Inventory equipment and materials
2. Disassemble the system
3. Pack the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

METEM-2616 1.0 730 B,R,M L

Goal. Setup the meteorological upper air subsystems for integrated operations

Requirement. As a member of a crew, given tools, the reference and a meteorological upper air subsystem, complete the following steps:

1. Identify personnel and safety requirements
2. Unpack the equipment
3. Setup meteorological upper air equipment
4. Ground the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

METEM-2617 1.0 730 B,R,M L

Goal. Perform post setup procedures on the meteorological upper air subsystems for integrated operations

Requirement. Given the reference, a setup meteorological upper air subsystem, demonstrate the following:

1. Apply power
2. Verify no alarm condition
3. Enter site specific parameters
4. Set station ID

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 0222561 Software User Manual

METEM-2618 1.0 * B,R L

Goal. Perform replacement procedures to the LRU for the meteorological upper air subsystems

Requirement. Given the reference, a meteorological subsystem, demonstrate the following:

1. Identify all tools required for replacement procedures
2. Perform replacement
3. Return system to an operational status

Performance Standard. With the aid of reference, complete the requirement without error. Trainee must replace two LRUs

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

METEM-2619 1.0 730 B,R,M L

Goal. Pack the meteorological upper air subsystems

Requirement. Given the reference, an assembled meteorological upper air subsystem, perform the following:

1. Inventory equipment and materials
2. Disassemble the system
3. Pack the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

METEM-2620 1.0 730 B,R,M L

Goal. Setup meteorological communication subsystems

Requirement. As a member of a crew, given tools, the reference and a meteorological communication subsystem, complete the following steps:

1. Identify personnel and safety requirements
2. Unpack the equipment
3. Setup meteorological communication equipment

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

METEM-2621 1.0 730 B,R,M L

Goal. Perform post setup procedures on the meteorological communication subsystem

Requirement. Given the reference, a setup meteorological communication subsystem, demonstrate the following:

1. Apply power
2. Verify no alarm condition
3. Align the system
4. Enter site specific parameters

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 0222562 Network Administration Manual
3. 0222561 Software User Manual
4. EE100-FF-OMI-01 Operation and Maintenance Instruction
5. EE100-PR-SAM-B1 System Administration Manual

METEM-2622 1.0 * B,R L

Goal. Perform replacement procedures to the LRU for the meteorological communication subsystem

Requirement. Given the reference, a meteorological communication subsystem, demonstrate the following:

1. Identify all tools required for replacement procedures
2. Perform replacement
3. Return system to an operational status

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-010 Operation and Maintenance Instruction

METEM-2623 1.0 730 B,R,M L

Goal. Pack the meteorological communication subsystem

Requirement. Given the reference, an assembled meteorological communication subsystem, perform the following:

1. Inventory equipment and materials
2. Disassemble the system
3. Pack the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide
3. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2624 1.0 730 B,R,M L

Goal. Setup meteorological product generation and dissemination subsystem

Requirement. As a member of a crew, given tools, the reference and a meteorological product generation and dissemination subsystem, complete the following steps:

1. Identify personnel and safety requirements
2. Unpack the equipment if applicable
3. Setup meteorological product generation and dissemination system
4. Ground the system if applicable

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 0222561 Software User Manual
3. EE100-FF-OMI-01 Operation and Maintenance Instruction
4. EE100-PR-SAM-B1 System Administration Manual

METEM-2625 5.0 730 B,R,M L

Goal. Perform post setup procedures on the meteorological product generation and dissemination subsystem

Requirement. Given the reference, a setup meteorological product generation and dissemination subsystem, demonstrate the following:

1. Apply power
2. Verify no alarm condition
3. Enter site specific parameters

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. 0222561 Software User Manual
2. EE100-PR-SAM-B10 System Administration Manual

METEM-2626 1.0 * B,R L

Goal. Perform replacement procedures to the LRU for the meteorological product generation and dissemination subsystem

Requirement. Given the reference, a meteorological product generation and dissemination subsystem, demonstrate the following:

1. Identify all tools required for replacement procedures
2. Perform replacement
3. Return system to an operational status

Performance Standard. With the aid of reference, complete the requirement without error. Trainee must replace two LRUs

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2627 1.0 730 B,R,M L

Goal. Pack the meteorological product generation and dissemination subsystem

Requirement. Given the reference, an assembled meteorological product generation and dissemination subsystem, perform the following:

1. Inventory equipment and materials
2. Disassemble the system
3. Pack the system

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2600, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

3. EE100-FF-OMI-01 Operation and Maintenance Instruction

METEM-2628 5.0 * B,R L

Goal. Perform PMS on the AN/TMQ-56

Requirement. Given the reference, an AN/TMQ-56, and required equipment perform all MRCs IAW the current MIP

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2214, 2215, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List need to add MIP

METEM-2629 3.0 * B,R L

Goal. Perform PMS on the AN/UMK-4

Requirement. Given the reference, an AN/UMK-4, and required equipment perform all MRCs IAW the current MIP

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

Instructor. BI,SI

Prerequisite. 2010, 2015, 2020, 2214, 2215, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-01 Operation and Maintenance Instruction
2. MIP 4941/073

2.11 MISSION SKILL TRAINING (3000)

2.11.1 Purpose. To develop mission skill proficiency for personnel to be able to perform their assigned duties under general or minimal supervision while directly supporting the unit mission essential tasks. At the completion of all required training in this phase, the trainee will be eligible for qualification or designation, as applicable.

a. MBTs will gain mission skill proficiency in day-to-day maintenance work center operations.

b. MATs will gain mission skill proficiency in maintenance work center supervisory functions and operational planning and employment.

2.11.2 General

2.11.2.1 Prerequisiste. Complete all core skill events for the position being trained.

2.11.2.2 Admin Notes. None

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

PAR NO.	STAGE NAME
2.11.3	MAINTENANCE MANAGEMENT (MMGT)
2.11.4	AUTOMATED DATA PROCESSING EQUIPMENT (ADPE)
2.11.5	TACTICAL DATA LINKS (TDL)
2.11.6	DEPLOYMENT (DEPL)
2.11.7	METEOROLOGICAL EQUIPMENT MAINTENANCE (METEM)

2.11.3 MAINTENANCE MANAGEMENT (MMGT) STAGE

2.11.3.1 Purpose. To provide the technician with the basic skills necessary to perform basic and intermediate maintenance shop section functions.

2.11.3.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MMGT-3200 2.0 365 B,R,M L

Goal. Build the Contingency Support Package (CSP)

Requirement. State the following:

1. Who maintains the CSP
2. The CSP inventory process
3. The process of how to pull the CSP for operations
4. The purpose of the CSP

Performance Standard. With the aid of reference, perform the

requirements. Minor corrections by the trainee are acceptable

Instructor. SI

Prerequisite. 2205, 2234

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-21.2 Aviation Logistics
2. Unit COSAL

2.11.4 AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) STAGE

2.11.4.1 Purpose. To teach the Marine to setup, install, and manage Automated Data Processing Equipment (ADPE).

2.11.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

ADPE-3300 8.0 1095 B,R,M L

Goal. Perform System Administration

Requirement. Given a scenario, ensure the following:

1. Manage disaster recovery plan
2. Manage logfiles
3. Manage user accounts
4. Apply software release updates
5. Monitor disk space
6. Manage system passwords

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

Instructor. SI

Prerequisite. 2015, 2020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. 0222561 Software User Manual
2. EE100-PR-SAM-B10 System Administration Manual

2.11.5 TACTICAL DATA LINKS (TDL) STAGE

2.11.5.1 Purpose. Provides the trainee instruction to operate, configure, and troubleshoot doctrinal datalinks and protocols.

2.11.5.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

TDL-3350 1.0 1095 B,R,M E G

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

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

TDL-3355 1.0 * B E G

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

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

2.11.6 DEPLOYMENT (DEPL) STAGE

2.11.6.1 Purpose. To instruct the trainee to survey site, install and operate tactical meteorological systems to include planned and corrective maintenance in support of the Mission Essential Tasks (METs).

2.11.6.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

DEPL-3400 8.0 1095 B,R,M L/S

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

Prerequisite. 2015, 2020, 2205, 2221, 2223, 2232, 2234, 3200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3120.6
2. Applicable TMs/Ums

2.11.7 METEOROLOGICAL EQUIPMENT MAINTENANCE (METEM) STAGE

2.11.7.1 Purpose. This stage of training will provide mission skill proficiency in the planning of current and future operations.

2.11.7.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

METEM-3600 40.0 730 B,R,M L

Goal. Deploy the AN/TMQ-56

Requirement. Perform the following:

1. Request required frequencies
2. Create Bill of Materials (BOM)
3. Draw CSP
4. Identify personnel deploying
5. Inventory all required equipment
6. Pack up procedures
7. Identify support requirements
8. Determine setup location
9. Identify support requirements
10. Unpack procedures
11. Inventory all METEM equipment
12. Setup procedures
13. Perform post setup procedures on the AN/TMQ-56

Performance Standard. With the aid of reference, perform the requirements without error. Minor corrections by the trainee are acceptable

Instructor. SI

Prerequisite. 2015, 2020, 2150, 2155, 2205, 2223, 2234, 2400, 2600, 2601, 2602, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 3200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 0222562 Network Administration Manual
3. 0222561 Software User Manual
4. 334-192046 Embarkation Guide

METEM-3601 8 730 B,R,M L

Goal. Provide meteorological maintenance services as a member of a crew

Requirement. During meteorological operations:

1. Verify site specific parameters
2. Perform system adjustments in support of operational requirements
3. Perform physical and system safety checks prior to assuming a crew position
4. Review crew changeover notes

Performance Standard. With the aid of reference, perform the requirements without error. Minor corrections by the trainee are acceptable. System requests can be simulated by the instructor

Instructor. SI

Prerequisite. 2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2165, 2175, 2201, 2202, 2204, 2205, 2207, 2209, 2210, 2214, 2215, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2405, 2410, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2610, 2611, 2612, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2626, 2627, 2628, 2629

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-01 Operation and Maintenance Instruction
2. EE100-PR-GYD-B1 Software Installation Guide
3. EE100-PR-SAM-B10 System Administration Manual

METEM-3605 8.0 730 B,R,M L

Goal. Deploy the AN/UMK-4

Requirement. Perform the following:

1. Request required frequencies
2. Create Bill of Materials (BOM)
3. Draw CSP
4. Identify personnel deploying
5. Inventory all required equipment
6. Pack up procedures
7. Identify support requirements
8. Determine setup location
9. Identify support requirements
10. Unpack procedures
11. Inventory all METEM equipment
12. Setup procedures
13. Perform post setup procedures on the AN/UMK-4

Performance Standard. With the aid of reference, perform the requirements without error. Minor corrections by the trainee are acceptable

Instructor. SI

Prerequisite. 2015, 2020, 2150, 2155, 2205, 2223, 2234, 2400, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 3200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EE100-FF-OMI-01 Operation and Maintenance Instruction
2. EE100-PR-GYD-B1 Software Installation Guide
3. EE100-PR-SAM-B10 System Administration Manual

2.12 CORE PLUS TRAINING (4000)

2.12.1 Purpose. The 5951 community does not have any training events currently identified for the Core Plus phase of training.

2.12.2 General

2.12.2.1 Prerequisiste. None

2.12.2.2 Admin Notes. None

2.12.2.3 Stages. None

2.13 INSTRUCTOR UNDER TRAINING (IUT) (5000)

2.13.1 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.

2.13.2 General

2.13.2.1 Prerequisiste. None

2.13.2.2 Admin Notes

a. The Aviation Ground instructor concept is a means to standardize all instructors across the aviation ground communities 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://www.intranet.tecom.usmc.mil/sites/mawts1/default.aspx.

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

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

2.13.2.3 Stages. The following stage is included in the Instructor Under Training Skill Phase of training.

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

2.13.3 INSTRUCTOR UNDER TRAINING (IUT) STAGE

2.13.3.1 Purpose. To train Meteorological Equipment Technicians in the fundamentals of instructing and training processes.

2.13.3.2 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

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

2.14.1 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.

2.14.2 General

2.14.2.1 Prerequisiste. NONE

2.14.2.2 Admin Notes

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

b. Only when an individual is qualified, certified or designated in writing, the signed letter is filed in the Perfomance Record, and all administrative actions are completed, and the event code has been logged in M-SHARP shall the qualification, certification or designation be effective.

2.14.2.3 Stages. The following stages are included in the Requirements, Certifications, Qualifications, and Designations Phase of training.

PAR NO.	STAGE NAME
2.14.3	DESIGNATION (DESG)
2.14.4	CERTIFICATION (CERT)
2.14.5	QUALIFICATION (QUAL)

2.14.3 DESIGNATIONS (DESG) STAGE

2.14.3.1 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 Performance Record 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.

2.14.3.2 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-6320 1.0 * B L

Goal. Designation as the Basic Instructor (BI)

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 5000, 5010, 5020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 3500.14_

DESG-6321 1.0 * B L

Goal. Designation as the Senior Instructor (SI)

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMC 3500.14_

DESG-6365 1.0 * B L

Goal. Designation as the METEM Work Center Supervisor (WCS)

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2160, 2165, 2170, 2175, 2201, 2202, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2217, 2218, 2220, 2221, 2223, 2232, 2233, 2234, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2300, 2305, 2310, 2315, 2320, 2335, 2340, 2350, 2355, 2400, 2405, 2410, 2601, 2608, 2609, 2613, 2625, 3200, 3300, 3400, 3600, 3605, 8000, 8020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6370 1.0 * B L

Goal. Designation as the Quality Assurance (QA) Audit Program Manager

Requirement. Complete the prerequisites required IAW the reference

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2253

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6375 1.0 * B L

Goal. Designation as the Central Technical Publications Library (CTPL) Program Manager

Requirement. Complete the prerequisites required IAW the reference

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2252

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6380 1.0 * B L

Goal. Designation as the Technical Directive (TD) Compliance Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2254

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6385 1.0 * B L

Goal. Designation as the Electrostatic Discharge (ESD/EMI) Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2261

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6390 1.0 * B L

Goal. Designation as the Foreign Object Damage (FOD) Prevention Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2259

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6400 1.0 * B L

Goal. Designation as the Corrosion Prevention and Control Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. CNATT-000-BCC-025-002-C0 or CNATT-000-ACC-025-001-C0 2010, 2015, 2020, 2250

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6405 1.0 * B L

Goal. Designation as the Naval Aviation Metrology and Calibration (METCAL) Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2257

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6410 1.0 * B L

Goal. Designation as the Maintenance Administration Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2266

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6420 1.0 * B L

Goal. Designation as the Naval Aviation Maintenance Discrepancy Reporting (NAMDRP) Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2258

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6425 1.0 * B L

Goal. Designation as the Aircraft Maintenance Material Readiness List (AMMRL) Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2256

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6430 1.0 * B L

Goal. Designation as the Maintenance Department/Division Safety Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2255

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6440 1.0 * B L

Goal. Designation as the Battery Maintenance Safety Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2262

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

DESG-6445 1.0 * B L

Goal. Designation as the Tool Control Program Manager

Requirement. Complete the prerequisites required for the designation

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2010, 2015, 2020, 2260

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

2.14.4 CERTIFICATIONS (CERT) STAGE

2.14.4.1 Purpose. To provide for basic and advanced technician certifications.

2.14.4.2 General

Prerequisite. None

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

Crew Requirements. None

CERT-6610 1.0 * B L

Goal. Obtain Naval Aviation Quality Assurance Administration Certification

Requirement. Pass the Naval Aviation Quality Assurance Administration Course

Performance Standard. Complete the requirements for the certification

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_

CERT-6615 1.0 365 B,R,M L

Goal. Obtain CPR certification

Requirement. Pass CPR Course

Performance Standard. Complete the requirements for the certification

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2_
2. OPNAVINST 5100.23_

CERT-6620 1.0 * B L

Goal. Obtain Aeronautical Technical Publications Library certification

Requirement. Pass Aeronautical Technical Publications Library Course

Performance Standard. Complete the requirements for the certification

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. Naval Aviation Maintenance Program approved ATPL course D/E-555-0007

Reference.
1. COMNAVAIRFORINST 4790.2_

CERT-6630 1.0 * B L

Goal. Obtain Hazard Material Program Manager Certification

Requirement. Pass Hazard Material Courses

Performance Standard. Complete the requirements for the certification

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. A-493-0331,A-493-0080,A-493-0081/CDP 2300

Reference.
1. COMNAVAIRFORINST 4790.2_

CERT-6635 1.0 * B L

Goal. Corrosion Control Certification

Requirement. Pass Corrosion Control Course

Performance Standard. Complete the requirements for the certification

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. CNATT-000-BCC-025-002-C0 or C-100-2021, or CNATT-000-ACC-025-001-C0, or C-600-3180, or N-701-0013, C-600-3183

Reference.
1. COMNAVAIRFORINST 4790.2_

CERT-6645 1.0 * B L

Goal. Obtain Maintenance Control certification

Requirement. Pass Maintenance Control Course

Performance Standard. Complete the requirements for the certification

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. C-555-0053

Reference.
1. COMNAVAIRFORINST 4790.2_

2.14.5 QUALIFICATIONS (QUAL) STAGE

2.14.5.1 Purpose. To provide for basic and advanced technician qualifications.

2.14.5.2 General

Prerequisite. None

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-6745 1.0 * B L

Goal. Qualification as a METEM Basic Technician (MBT)

Requirement. Complete the prerequisites required for the qualification

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2165, 2175, 2201, 2202, 2204, 2205, 2207, 2209, 2210, 2214, 2215, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2405, 2410, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2610, 2611, 2612, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2626, 2627, 2628, 2629, 8000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2

QUAL-6750 1.0 * B L

Goal. Qualification as a METEM Advanced Technician (MAT)

Requirement. Complete the prerequisites required for the qualification

Performance Standard. Be verified by a WTI and designated in writing by the designating official

Prerequisite. 2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2160, 2165, 2170, 2175, 2201, 2202, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2217, 2218, 2220, 2221, 2223, 2232, 2233, 2234, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2300, 2305, 2310, 2315, 2320, 2335, 2340, 2350, 2355, 2400, 2405, 2410, 2601, 2608, 2609, 2613, 2625, 3200, 3300, 3605, 8000, 8020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. COMNAVAIRFORINST 4790.2

2.15 MISSION ESSENTIAL TASK (MET) PHASE (7000)

2.15.1 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.

2.15.2 General

2.15.2.1 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.

2.15.2.2 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.

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

PAR NO.	STAGE NAME
2.15.3	CONDITION (COND)

2.15.3 CONDITION (COND) STAGE

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

2.15.3.2 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-7000 80.0 545 B,R,M E L/S

Goal. Conduct Meteorology and Oceanography (METOC) Support.

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

1. Conduct Mission Analysis.
2. Review Operational Planning Documents.
3. Identify required support personnel.
4. Identify Administrative (ADCON) and Tactical Control (TACON).
5. Identify equipment requirements.
6. Conduct a Recon, Selection, and Occupation of Position (RSOP).
7. Identify, create, and finalize administrative documents supporting the operation.
8. Coordinate with external agencies.
9. Conduct embarkation, and retrograde of personnel and equipment.
10. Maintain accountability of personnel.
11. Conduct METOC support operations.
12. Conduct crew evaluations.
13. Compile After-Action items.

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

Instructor. WTI

Prerequisite. (3) Intel CMMR METOC crews

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. Representatives from the S-1, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7, METOC Operations
3. Unit SOP

COND-7001 80.0 545 B,R,M E L/S

Goal. Conduct METOC Support Team (MST) Services.

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 MST during day or night conditions to include the following:

1. Conduct Problem Framing.
2. Review Operational Planning Documents.
3. Identify personnel and equipment requirements.
4. Conduct an RSOP (as required).
5. Coordinate with external agencies.
6. Identify, create and finalize administrative documents supporting the operations.
7. Brief supported personnel (as required).
8. Inspect MST personnel and equipment to be deployed.
9. Coordinate arrival into the landing area appropriate to the plan.
10. Maintain accountability of personnel.
11. Upon arrival at a site, take a weather observation to establish LZ heading.
12. Within one hour of arrival at the site, setup appropriate weather sensing equipment, establishing winds temperature, dewpoint and pressure capability.
13. Within 1.5 hours of arrival at the site, establish appropriate enhanced weather sensing equipment (if applicable). Enhancements include visibility, present weather, ceilometer and lightening detector.
14. Provide timely coordination with refueling and/or arming personnel for warnings, watches and advisories.
15. As appropriate to the plan, retrograde from the landing zone with the last available transportation.
16. Conduct crew evaluations.
17. Compile After-Action items.

Performance Standard. Perform the requirement items listed and provide METOC analysis operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. (2) CMMR METOC crew.

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Squadron SOP

COND-7100	80	545	B,R,M	E	L/S

Goal. Provide Meteorological Services.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, provide meteorological services to include the following:

1. Identify required support personnel.
2. Identify required equipment.
3. Identify, create, and finalize administrative documents supporting airfield operations.
4. Coordinate with external agencies.
5. Provide augmentation of the Automated Surface Observation System (ASOS).
6. Provide meteorological services.
8. Conduct watch turnover briefs to maintain environmental situational awareness.
7. Conduct crew evaluations.

Performance Standard. Perform the requirement items listed and provide meteorological services to airfield operations.

Instructor. WTI

Prerequisite. (4) CMMR METOC crews

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. Airfield Operations Officer and representatives from the S-1, S-2, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Unit SOP

COND-7200 80.0 545 B,R,M E L/S

Goal. Provide Meteorological/Oceanographic (METOC) Services.

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, provide meteorological services to include the following:

1. Conduct Mission Analysis.
2. Review Operational Planning Documents.
3. Identify required support personnel.
4. Identify Administrative (ADCON) and Tactical Control (TACON).
5. Identify equipment requirements.
6. Conduct an RSOP.
7. Identify, create, and finalize administrative documents supporting the operation to include input to the Annexes H, B, and K.
8. Coordinate with external agencies to include communications, heavy equipment, supply, utilities, and Electronic Key Management System (EKMS) personnel.
9. Conduct embarkation, and retrograde of personnel and equipment.
10. Maintain accountability of personnel.

11. Establish appropriate level II security measures.
12. Within 1 hour of arrival at the site, setup the AN/TMQ-56's Local Sensor Subsystem (LSS), the Meteorological Satellite Subsystem (MSS), and take surface observation.
13. Within 3 hours of arrival at the site, setup the AN/TMQ-56's Meteorological Radar Subsystem (MRS), Upper Air Subsystem (UAS), Processing Subsystem (PCS) and the Communication Subsystem (CMS). In addition to the above listed items.
14. Provide METOC services as outlined in the Annex H.
15. Conduct corrective and preventive maintenance as mandated.
16. Conduct crew evaluations.
17. Compile After-Action items.

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

Instructor. WTI

Prerequisite. (4) CMMR METOC

Ordnance. None

Range. Range space capable of supporting METOC equipment and weather balloon launch.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Unit SOP

COND-7201 80.0 545 B,R,M E L/S

Goal. Conduct METOC Support Team (MST) Services.

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 MST during day or night conditions to include the following:

1. Conduct Problem Framing.
2. Review Operational Planning Documents.
3. Identify personnel and equipment requirements.
4. Conduct an RSOP (as required).
5. Coordinate with external agencies.
6. Identify, create and finalize administrative documents supporting the operations.
7. Brief supported personnel (as required).
8. Inspect MST personnel and equipment to be deployed.
9. Coordinate arrival into the landing area appropriate to the plan.
10. Maintain accountability of personnel.

11. Upon arrival at a site, take a weather observation to establish LZ heading.
12. Within one hour of arrival at the site, setup appropriate weather sensing equipment, establishing winds temperature, dewpoint and pressure capability.
13. Within 1.5 hours of arrival at the site, establish appropriate enhanced weather sensing equipment (if applicable). Enhancements include visibility, present weather, ceilometer and lightening detector.
14. Provide timely coordination with refueling and/or arming personnel for warnings, watches and advisories.
15. As appropriate to the plan, retrograde from the landing zone with the last available transportation.
16. Conduct crew evaluations.
17. Compile After-Action items.

Performance Standard. Perform the requirement items listed and provide METOC analysis operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. (2) CMMR METOC crew.

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Squadron SOP

2.16 AVIATION CAREER PROGRESSION MODEL (8000)

STAGE	TRNG CODE	T&R DESCRIPTION		ACAD TIME	TO BE COMPLETED DURING
ACPM	8000	**MACCS**		1	2000
ACPM	8001	MARINE AIR COMMAND AND CONTROL SYSTEM		4	2000
ACPM	8002	TACTICAL AIR COMMAND CENTER (TACC)		4	2000
ACPM	8003	DIRECT AIR SUPPORT CENTER (DASC)		4	2000
ACPM	8004	TACTICAL AIR OPERATIONS CENTER (TAOC)		4	2000
ACPM	8005	MARINE AIR TRAFFIC CONTROL (MATC)		4	2000
ACPM	8006	LOW ALTITUDE AIR DEFENSE (LAAD)		4	2000

ACPM	8007	MARINE UNMANNED AERIAL VEHICLE SQUADRON (VMU)		4	2000
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)		4	2000
ACPM	8020	**ACE**		1	2000
ACPM	8021	AVIATION OPERATIONS		4	2000
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES		4	2000
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)		4	2000
ACPM	8024	ASSAULT SUPPORT		4	2000
ACPM	8025	AIR RECONNAISSANCE		4	2000
ACPM	8026	ELECTRONIC WARFARE		4	2000
ACPM	8027	ANTI-AIR WARFARE		4	2000
ACPM	8028	AVIATION GROUND SUPPORT		4	2000
ACPM	8040	**THREAT**		1	4000
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	4000
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	4000
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	4000
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	4000
ACPM	8045	RADIO ELECTRONIC COMBAT THREAT TO THE MAGTF		4	4000
ACPM	8060	**MAGTF**		1	4000
ACPM	8061	GROUND COMBAT OPERATIONS		4	4000
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	4000
ACPM	8063	MAGTF COMMAND AND CONTROL		4	4000
ACPM	8064	MAGTF COMMUNICATIONS		4	4000
ACPM	8065	PHASING CONTROL ASHORE		4	4000
ACPM	8066	INFORMATION MANAGEMENT		4	4000
ACPM	8067	UAS SUPPORT TO THE MAGTF		4	4000
ACPM	8080	**JOINT AIR OPERATIONS**		1	4000
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	4000
ACPM	8082	THEATER AIR CROUND SYSTEM (TAGS)		4	4000
ACPM	8083	JOINT FIRE SUPPORT		4	4000
ACPM	8084	CLOSE AIR SUPPORT		4	4000
ACPM	8085	JOINT TARGETING		4	4000
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	4000
ACPM	8087	JOINT AIRSPACE CONTROL		4	4000
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	4000
TOTAL ACPM STAGE			41	149	

2.17 T&R ATTAIN AND MAINTAIN TABLES

METOC MAINTENANCE MOS 5951											
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		
Describe the characteristics of the different types of power sources used by the MATCD	ORNT	2000	*	ORNT	2000	ORNT	2000			-	-
State the organizational destructive weather plan	ORNT	2005	365	ORNT	2005	ORNT	2005	ORNT	2005	-	-
Complete NAMP indoctrination training	ORNT	2010	365	ORNT	2010	ORNT	2010	ORNT	2010	-	-
Complete Naval Occupational Safety and Health (NAVOSH) initial/annual training	FAS	2015	365	FAS	2015	FAS	2015	FAS	2015	-	2020
Complete Naval Occupational Safety and Health (NAVOSH) initial/quarterly training	FAS	2020	90	FAS	2020	FAS	2020	FAS	2020	-	-
Operate the handheld GPS	EQPT	2050	1095	EQPT	2050	EQPT	2050	EQPT	2050	2150, 2175	-
Demonstrate an earth ground installation	EQPT	2055	365	EQPT	2055	EQPT	2055	EQPT	2055	2010, 2015, 2020, 2100	-
Operate a Ground Tester	TMDE	2100	1095	TMDE	2100	TMDE	2100	TMDE	2100	2010, 2015, 2020	-
Operate an oscilloscope	TMDE	2115	1095	TMDE	2115	TMDE	2115	TMDE	2115	2010, 2015, 2020	-
State the requirements for handling and storage of classified materials	SEC	2150	365	SEC	2150	SEC	2150	SEC	2150	-	-
State the physical security requirements for classified areas	SEC	2155	*	SEC	2155	SEC	2155			2150	-
Create a classified area physical security diagram	SEC	2160	*	SEC	2160	SEC	2160			2150, 2155	-
Conduct classified material inventory	SEC	2165	*	SEC	2165	SEC	2165			2150	-
Extract key material information from EKMS COMSEC callout	SEC	2170	*	SEC	2170	SEC	2170			2150	-
Operate a common fill device	SEC	2175	*	SEC	2175	SEC	2175			2150	-
Open a Maintenance Action Form (MAF)	MMGT	2201	*	MMGT	2201	MMGT	2201			2205, 2207, 2210	-
Close an existing MAF	MMGT	2202	*	MMGT	2202	MMGT	2202			2201, 2204, 2205, 2207, 2210	-
State the purpose of each specialty MAF in the Maintenance Action Form In Access (MAF-IA) Program	MMGT	2204	*	MMGT	2204	MMGT	2204			2201, 2205, 2207, 2210	-
Identify parts data from Coordinated Shipboard Allowance List (COSAL)	MMGT	2205	*	MMGT	2205	MMGT	2205			-	-
Submit a COSAL Feedback report	MMGT	2206	*	MMGT	2206	MMGT	2206			2205	-
Identify parts data from sources other than COSAL	MMGT	2207	*	MMGT	2207	MMGT	2207			2205	-
Draft a Naval Message	MMGT	2208	*	MMGT	2208	MMGT	2208			-	-
Explain the information contained in the logs and records maintained in production control	MMGT	2209	*	MMGT	2209	MMGT	2209			2010	-

Determine the readiness status from the Mission Essential Subsystem Matrix (MESM)	MMGT	2210	730	MMGT	2210	MMGT	2210	MMGT	2210	-	-
State the information contained in the allowance lists	MMGT	2211	*	MMGT	2211	MMGT	2211			-	-
Identify spectrum management procedures	MMGT	2212	365	MMGT	2212	MMGT	2212	MMGT	2212	-	-
Record equipment readiness using Aviation Management Supply and Readiness Reporting (AMSRR) system	MMGT	2213	365	MMGT	2213	MMGT	2213	MMGT	2213	2201, 2202, 2204, 2205, 2207, 2210	-
Describe the Planned Maintenance System (PMS)	MMGT	2214	*	MMGT	2214	MMGT	2214			-	-
Document the completion of preventive maintenance using the 13-Week Accountability log	MMGT	2215	*	MMGT	2215	MMGT	2215			2214	-
Perform a PMS revision	MMGT	2217	1095	MMGT	2217	MMGT	2217	MMGT	2217	2214, 2215	-
Build a Work Center	MMGT	2218	1095	MMGT	2218	MMGT	2218	MMGT	2218	2214, 2215, 2217	2217
Submit PMS feedback reports	MMGT	2220	*	MMGT	2220	MMGT	2220			2214, 2215	-
Develop an embarkation plan	MMGT	2221	730	MMGT	2221	MMGT	2221	MMGT	2221	2205, 2232, 2234, 3200	-
Submit of a Bill of Material (BOM) request	MMGT	2223	*	MMGT	2223	MMGT	2223			-	-
Write an Equipment Density List (EDL)	MMGT	2232	*	MMGT	2232	MMGT	2232			-	-
Explain MATCD Supply Functions	MMGT	2234	*	MMGT	2234					-	-
State the responsibilities of the Corrosion Control Program within the Work Center	NAMP	2250	90	NAMP	2250	NAMP	2250	NAMP	2250	2010, 2015, 2020	-
State the responsibilities of the Hazmat Program within the Work Center	NAMP	2251	*	NAMP	2251	NAMP	2251			2010, 2015, 2020	-
State the responsibilities of the CTPL Program	NAMP	2252	90	NAMP	2252	NAMP	2252	NAMP	2252	2010, 2015, 2020	-
State the responsibilities of the Quality Assurance Audit Program	NAMP	2253	*	NAMP	2253	NAMP	2253			2010, 2015, 2020	-
State the responsibilities of the TD compliance Program	NAMP	2254	*	NAMP	2254	NAMP	2254			2010, 2015, 2020	-
State the responsibilities of the Safety Program	NAMP	2255	*	NAMP	2255	NAMP	2255			2010, 2015, 2020	-
State the responsibilities of the AMMRL Program	NAMP	2256	*	NAMP	2256	NAMP	2256			2010, 2015, 2020	-
State the responsibilities of the METCAL Program	NAMP	2257	*	NAMP	2257	NAMP	2257			2010, 2015, 2020	-
State the responsibilities of the NAMDRP	NAMP	2258	*	NAMP	2258	NAMP	2258			2010, 2015, 2020	-
State the responsibilities of the FOD Program	NAMP	2259	*	NAMP	2259	NAMP	2259			2010, 2015, 2020	-
State the responsibilities of the Tool Control Program	NAMP	2260	180	NAMP	2260	NAMP	2260	NAMP	2260	2010, 2015, 2020	-
State the responsibilities of the ESD/EMI Program	NAMP	2261	*	NAMP	2261	NAMP	2261			2010, 2015, 2020	-
State the responsibilities of the Battery Maintenance Program	NAMP	2262	*	NAMP	2262	NAMP	2262			2010, 2015, 2020	-
State the responsibilities of the Maintenance In-Service Training Program	NAMP	2265	*	NAMP	2265	NAMP	2265			2010, 2015, 2020	-
Configure Networks	ADPE	2300	*	ADPE	2300					2015, 2020	-
State the purpose of Automated Data Processing Equipment (ADPE)	ADPE	2305	*	ADPE	2305					2015, 2020	-
Setup network equipment	ADPE	2310	*	ADPE	2310					2015, 2020	-

Configure workstation	ADPE	2315	*	ADPE	2315					2015, 2020	-
Install ADPE operating system software	ADPE	2320	*	ADPE	2320					2015, 2020	-
Configure ADPE C2 application software	ADPE	2335	*	ADPE	2335					2015, 2020, 2320	-
Apply Software release updates	ADPE	2340	*	ADPE	2340					2015, 2020	-
State the characteristics of Joint Range Extension Application Protocol (JREAP)	TDL	2350	*	TDL	2350					2355	-
State characteristics of Tactical Data Links (TDL)	TDL	2355	*	TDL	2355					-	-
Conduct a maintenance section site evaluation	DEPL	2400	1095	DEPL	2400	DEPL	2400	DEPL	2400	2015, 2020, 2150, 2155	-
State the required coordination between maintenance personnel and the ATC watch supervisors	DEPL	2405	*	DEPL	2405					-	-
State the purpose of a flight Inspection	DEPL	2410	1095	DEPL	2410	DEPL	2410	DEPL	2410	-	-
State the capabilities of the AN/TMQ-56	METEM	2600	*	METEM	2600					-	-
State the deployment consideration for the AN/TMQ-56	METEM	2601	*	METEM	2601					2015, 2020	-
State the capabilities of the AN/UMK-4	METEM	2602	*	METEM	2602					-	-
State the deployment consideration for the AN/UMK-4	METEM	2603	*	METEM	2603					2015, 2020	-
Setup surface meteorological sensing system	METEM	2604	730	METEM	2604	METEM	2604	METEM	2604	2010, 2015, 2020, 2600, 2602	-
Perform post setup procedures on surface meteorological sensing system	METEM	2605	730	METEM	2605	METEM	2605	METEM	2605	2010, 2015, 2020, 2600, 2602	-
Perform replacement procedures to the LRU for surface meteorological sensing system	METEM	2606	*	METEM	2606	METEM	2606			2010, 2015, 2020, 2600, 2602	-
Pack the meteorological surface sensing system	METEM	2607	730	METEM	2607	METEM	2607	METEM	2607	2010, 2015, 2020, 2600, 2602	-
Setup the meteorological radar subsystem for integrated operation	METEM	2608	730	METEM	2608	METEM	2608	METEM	2608	2010, 2015, 2020, 2600	-
Perform post setup procedures on the meteorological radar subsystem for integrated operation	METEM	2609	730	METEM	2609	METEM	2609	METEM	2609	2010, 2015, 2020, 2600	-
Perform replacement procedures to the LRU for meteorological radar subsystem	METEM	2610	*	METEM	2610					2010, 2015, 2020, 2600	-
Pack the meteorological radar subsystem	METEM	2611	730	METEM	2611	METEM	2611	METEM	2611	2010, 2015, 2020, 2600	-
Setup the meteorological satellite subsystem	METEM	2612	730	METEM	2612	METEM	2612	METEM	2612	2010, 2015, 2020, 2600	-
Perform post setup procedures on the meteorological satellite subsystem	METEM	2613	730	METEM	2613	METEM	2613	METEM	2613	2010, 2015, 2020, 2600	-
Perform replacement procedures to the LRU for the meteorological satellite subsystem	METEM	2614	*	METEM	2614	METEM	2614	METEM	2614	2010, 2015, 2020, 2600	-
Pack the meteorological satellite subsystem	METEM	2615	730	METEM	2615	METEM	2615	METEM	2615	2010, 2015, 2020, 2600	-
Setup the meteorological upper air subsystems for integrated operations	METEM	2616	730	METEM	2616	METEM	2616	METEM	2616	2010, 2015, 2020, 2600	-
Perform post setup procedures on the meteorological upper air subsystems for integrated operations	METEM	2617	730	METEM	2617	METEM	2617	METEM	2617	2010, 2015, 2020, 2600	-
Perform replacement procedures to the LRU for the meteorological upper air subsystems	METEM	2618	*	METEM	2618	METEM	2618			2010, 2015, 2020, 2600	-

Pack the meteorological upper air subsystems	METEM	2619	730	METEM	2619	METEM	2619	METEM	2619	2010, 2015, 2020, 2600	-
Setup meteorological communication subsystems	METEM	2620	730	METEM	2620	METEM	2620	METEM	2620	2010, 2015, 2020, 2600, 2602	-
Perform post setup procedures on the meteorological communication subsystem	METEM	2621	730	METEM	2621	METEM	2621	METEM	2621	2010, 2015, 2020, 2600, 2602	-
Perform replacement procedures to the LRU for the meteorological communication subsystem	METEM	2622	*	METEM	2622	METEM	2622			2010, 2015, 2020, 2600, 2602	-
Pack the meteorological communication subsystem	METEM	2623	730	METEM	2623	METEM	2623	METEM	2623	2010, 2015, 2020, 2600, 2602	-
Setup meteorological product generation and dissemination subsystem	METEM	2624	730	METEM	2624	METEM	2624	METEM	2624	2010, 2015, 2020, 2600, 2602	-
Perform post setup procedures on the meteorological product generation and dissemination subsystem	METEM	2625	730	METEM	2625	METEM	2625	METEM	2625	2010, 2015, 2020, 2600, 2602	-
Perform replacement procedures to the LRU for the meteorological product generation and dissemination subsystem	METEM	2626	*	METEM	2626	METEM	2626			2010, 2015, 2020, 2600, 2602	-
Pack the meteorological product generation and dissemination subsystem	METEM	2627	730	METEM	2627	METEM	2627	METEM	2627	2010, 2015, 2020, 2600, 2602	-
Perform PMS on the AN/TMQ-56	METEM	2628	*	METEM	2628	METEM	2628			2010, 2015, 2020, 2214, 2215, 2600	-
Perform PMS on the AN/UMK-4	METEM	2629	*	METEM	2629	METEM	2629			2010, 2015, 2020, 2214, 2215, 2602	-
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		
Build the Contingency Support Package (CSP)	MMGT	3200	365	MMGT	3200	MMGT	3200	MMGT	3200	2205, 2234	-
Perform System Administration	ADPE	3300	1095	ADPE	3300	ADPE	3300	ADPE	3300	2015, 2020	-
Identify TAOC and EW/C communications information exchange requirements	TDL	3350	1095	TDL	3350	TDL	3350	TDL	3350	-	-
Identify LAAD Communications information exchange requirements	TDL	3355	*	TDL	3355					-	-
Deploy a maintenance capability	DEPL	3400	1095	DEPL	3400	DEPL	3400	DEPL	3400	2015, 2020, 2205, 2221, 2223, 2232, 2234, 3200	-
Deploy the AN/TMQ-56	METEM	3600	730	METEM	3600	METEM	3600	METEM	3600	2015, 2020, 2150, 2155, 2205, 2223, 2234, 2400, 2600, 2601, 2602, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 3200	2400, 3200, 2604, 2605, 2607, 2608, 2609, 2611, 2612, 2613, 2615, 2616, 2617, 2619, 2620, 2621, 2623, 2624, 2625, 2627, 3601

Provide meteorological maintenance services as a member of a crew	METEM	3601	730	METEM	3601	METEM	3601	METEM	3601	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2165, 2175, 2201, 2202, 2204, 2205, 2207, 2209, 2210, 2214, 2215, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2405, 2410, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2610, 2611, 2612, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2626, 2627, 2628, 2629	-
Deploy the AN/UMK-4	METEM	3605	730	METEM	3605	METEM	3605	METEM	3605	2015, 2020, 2150, 2155, 2205, 2223, 2234, 2400, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 3200	2400, 3200, 2604, 2605, 2607, 2620, 2621, 2623, 2624, 2625, 2627, 3601

2.18 T&R SYLLABUS MATRIX

METOC MAINTENANCE (5951) 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				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																			
MATCLS	1100	Perform corrective maintenance to the LRU for the AN/UMK-4	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MATCLS	1105	Perform corrective maintenance to the LRU for the AN/TMQ-56	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MATCLS	1110	Setup the subsystems of the AN/TMQ-56	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MATCLS	1115	Pack the AN/TMQ-56	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MATCLS	1120	Setup the subsystems of the AN/UMK-4	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MATCLS	1125	Pack the AN/UMK-4	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MATCLS	1130	Configure the data network of the tactical meteorological equipment to communicate with external networks	B	E	G	-	-	-	*		0		0		0	-	-	-	-
TOTAL CORE SKILL INTRODUCTION (1000 PHASE EVENTS)										7	0.0	0	0.0	0	0.0				
CORE SKILL TRAINING (2000 PHASE EVENTS)																			
ORIENTATION (ORNT) STAGE																			
ORNT	2000	Describe the characteristics of the different types of power sources used by the MATCD	B,R	E	G	-	-	-	*		3.0		0		0	-	-	-	-
ORNT	2005	State the organizational destructive weather plan	B,R,M	E	G	-	-	-	365		2.0		0		0	-	-	-	-
ORNT	2010	Complete NAMP indoctrination training	B,R,M	E	G	-	-	-	365		4.0		0		0	-	-	-	-

TOTAL ORIENTATION (ORNT) STAGE										3	9.0	0	0.0	0	0.0				
FIRST AID/SAFETY (FAS) STAGE																			
FAS	2015	Complete Naval Occupational Safety and Health (NAVOSH) initial/annual training	B,R,M	-	L	-	-	-	365		0		0		8.0	-	-	2020	-
FAS	2020	Complete Naval Occupational Safety and Health (NAVOSH) initial/quarterly training	B,R,M	-	L	-	-	-	90		0		0		1.0	-	-	-	-
TOTAL FIRST AID/SAFETY (FAS) STAGE										0	0.0	0	0.0	2	9.0				
EQUIPMENT (EQPT) STAGE																			
EQPT	2050	Operate the handheld GPS	B,R,M	E	L	-	-	-	1095		0		0		2.0	2150, 2175	-	-	-
EQPT	2055	Demonstrate an earth ground installation	B,R,M	-	L	-	-	-	365		0		0		1.0	2010, 2015, 2020, 2100	-	-	-
TOTAL EQUIPMENT (EQPT) STAGE										1	0.0	0	0.0	2	3.0				
TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE) STAGE																			
TMDE	2100	Operate a Ground Tester	B,R,M	E	L	-	-	-	1095		0		0		2.0	2010, 2015, 2020	-	-	-
TMDE	2115	Operate an oscilloscope	B,R,M	-	L	-	-	-	1095		0		0		1.0	2010, 2015, 2020	-	-	-
TOTAL TEST MEASUREMENT/DIAGNOSTIC EQUIPMENT (TMDE) STAGE										0	0.0	0	0.0	2	3.0				
COMMUNICATION SECURITY (SEC) STAGE																			
SEC	2150	State the requirements for handling and storage of classified materials	B,R,M	E	G	-	-	-	365		2.0		0		0.0	-	-	-	-
SEC	2155	State the physical security requirements for classified areas	B,R	E	G	-	-	-	*		1.0		0		0.0	2150	-	-	-
SEC	2160	Create a classified area physical security diagram	B,R	E	L	-	-	-	*		0.0		0		2.0	2150, 2155	-	-	-
SEC	2165	Conduct classified material inventory	B,R		L	-	-	-	*		0.0		0		1.0	2150	-	-	-
SEC	2170	Extract key material information from EKMS COMSEC callout	B,R		L	-	-	-	*		0.0		0		2.0	2150	-	-	-
SEC	2175	Operate a common fill device	B,R		L	-	-	-	*		0.0		0		2.0	2150	-	-	-
TOTAL COMMUNICATION SECURITY (SEC) STAGE										2	3.0	0	0.0	4	7.0				

MAINTENANCE MANAGEMENT (MMGT) STAGE																			
MMGT	2201	Open a Maintenance Action Form (MAF)	B,R	-	L/S	-	-	-	*		0.0		0.0		3.0	2205, 2207, 2210	-	-	-
MMGT	2202	Close an existing MAF	B,R	-	L/S	-	-	-	*		0		0.0		1.0	2201, 2204, 2205, 2207, 2210	-	-	-
MMGT	2204	State the purpose of each specialty MAF in the Maintenance Action Form In Access (MAF-IA) Program	B,R	E	G	-	-	-	*		1.0		0.0		0.0	2201, 2205, 2207, 2210	-	-	-
MMGT	2205	Identify parts data from Coordinated Shipboard Allowance List (COSAL)	B,R	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
MMGT	2206	Submit a COSAL Feedback report	B,R	-	S/L	-	-	-	*		0.0		1.0		0.0	2205	-	-	-
MMGT	2207	Identify parts data from sources other than COSAL	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2205	-	-	-
MMGT	2208	Draft a Naval Message	B,R	-	S/L	-	-	-	*		0.0		2.0		0.0	-	-	-	-
MMGT	2209	Explain the information contained in the logs and records maintained in production control	B,R	E	G	-	-	-	*		1.0		0.0		0.0	2010	-	-	-
MMGT	2210	Determine the readiness status from the Mission Essential Subsystem Matrix (MESM)	B,R,M	E	G	-	-	-	730		1.0		0.0		0.0	-	-	-	-
MMGT	2211	State the information contained in the allowance lists	B,R	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
MMGT	2212	Identify spectrum management procedures	B,R,M	E	G	-	-	-	365		2.0		0.0		0.0	-	-	-	-
MMGT	2213	Record equipment readiness using Aviation Management	B,R,M	-	L	-	-	-	365		0.0		0.0		1.0	2201, 2202, 2204, 2205, 2207, 2210	-	-	-

		Supply and Readiness Reporting (AMSRR) system																	
MMGT	2214	Describe the Planned Maintenance System (PMS)	B,R	E	G	-	-	-	*		3.0		0.0		0.0	-	-	-	-
MMGT	2215	Document the completion of preventive maintenance using the 13-Week Accountability log	B,R	-	L	-	-	-	*		0.0		0.0		1.0	2214	-	-	-
MMGT	2217	Perform a PMS revision	B,R,M	-	L/S	-	-	-	1095		0.0		0.0		3.0	2214, 2215	-	-	-
MMGT	2218	Build a Work Center	B,R,M	-	L/S	-	-	-	1095		0.0		0.0		3.0	2214, 2215, 2217	-	2217	
MMGT	2220	Submit PMS feedback reports	B,R	-	L	-	-	-	*		0.0		0.0		1.0	2214, 2215	-	-	-
MMGT	2221	Develop an embarkation plan	B,R,M	-	L	-	-	-	730		0.0		0.0		2.0	2205, 2232, 2234, 3200	-	-	-
MMGT	2223	Submit of a Bill of Material (BOM) request	B,R	-	L	-	-	-	*		0.0		0.0		4.0	-	-	-	-
MMGT	2232	Write an Equipment Density List (EDL)	B,R	-	L	-	-	-	*		0.0		0.0		1.0	-	-	-	-
MMGT	2234	Explain MATCD Supply Functions	B	E	G	-	-	-	*		4.0		0.0		0	-	-	-	-
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										9	18.0	2	3.0	10	20.0				
NAVAL AVIATION MAINTENANCE PROGRAM (NAMP) STAGE																			
NAMP	2250	State the responsibilities of the Corrosion Control Program within the Work Center	B,R,M	E	G	-	-	-	90		3.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2251	State the responsibilities of the Hazmat Program within the Work Center	B,R	E	G	-	-	-	*		3.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2252	State the responsibilities of the	B,R,M	E	G	-	-	-	90		2.0		0.0		0.0	2010, 2015, 2020	-	-	-

		CTPL Program																	
NAMP	2253	State the responsibilities of the Quality Assurance Audit Program	B,R	E	G	-	-	-	*		3.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2254	State the responsibilities of the TD compliance Program	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2255	State the responsibilities of the Safety Program	B,R	E	G	-	-	-	*		4.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2256	State the responsibilities of the AMMRL Program	B,R	E	G	-	-	-	*		1.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2257	State the responsibilities of the METCAL Program	B,R	E	G	-	-	-	*		1.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2258	State the responsibilities of the NAMDRP	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2259	State the responsibilities of the FOD Program	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2260	State the responsibilities of the Tool Control Program	B,R,M	E	G	-	-	-	180		2.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2261	State the responsibilities of the ESD/EMI Program	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2262	State the responsibilities of the Battery Maintenance Program	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2010, 2015, 2020	-	-	-
NAMP	2265	State the responsibilities of the Maintenance In-Service Training Program	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2010, 2015, 2020	-	-	-
TOTAL NAVAL AVIATION MAINTENANCE PROGRAM (NAMP) STAGE										14	31.0	0	0.0	0	0.0				
AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) STAGE																			
ADPE	2300	Configure Networks	B	-	L	-	-	-	*		0.0		0.0		16.0	2015, 2020	-	-	-

ADPE	2305	State the purpose of Automated Data Processing Equipment (ADPE)	B	E	G	-	-	-	*		2.0		0.0		0.0	2015, 2020	-	-	-
ADPE	2310	Setup network equipment	B	-	L	-	-	-	*		0.0		0.0		4.0	2015, 2020	-	-	-
ADPE	2315	Configure workstation	B	-	L	-	-	-	*		0.0		0.0		4.0	2015, 2020	-	-	-
ADPE	2320	Install ADPE operating system software	B	-	L	-	-	-	*		0.0		0.0		4.0	2015, 2020	-	-	-
ADPE	2335	Configure ADPE C2 application software	B	-	L	-	-	-	*		0.0		0.0		1.0	2015, 2020, 2320	-	-	-
ADPE	2340	Apply Software release updates	B	-	L	-	-	-	*		0.0		0.0		4.0	2015, 2020	-	-	-
TOTAL AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) STAGE										1	2.0	0	0.0	6	33.0				
TACTICAL DATA LINKS (TDL) STAGE																			
TDL	2350	State the characteristics of Joint Range Extension Application Protocol (JREAP)	B	E	G	-	-	-	*		1.0		0.0		0.0	2355	-	-	-
TDL	2355	State characteristics of Tactical Data Links (TDL)	B	E	G	-	-	-	*		4.0		0.0		0.0	-	-	-	-
TOTAL TACTICAL DATA LINKS (TDL) STAGE										2	5.0	0	0.0	0	0.0				
DEPLOYMENT (DEPL) STAGE																			
DEPL	2400	Conduct a maintenance section site evaluation	B,R,M	-	L	-	-	-	1095		0.0		0.0		2.0	2015, 2020, 2150, 2155	-	-	-
DEPL	2405	State the required coordination between maintenance personnel and the ATC watch supervisors	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
DEPL	2410	State the purpose of a flight Inspection	B,R,M	E	G	-	-	-	1095		1.0		0.0		0.0	-	-	-	-
TOTAL DEPLOYMENT (DEPL) STAGE										2	3.0	0	0.0	1	2.0				
METEOROLOGICAL EQUIPMENT MAINTENANCE (METEM) STAGE																			
METEM	2600	State the capabilities of the AN/TMQ-56	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
METEM	2601	State the deployment consideration for the AN/TMQ-56	B	E	G	-	-	-	*		1.0		0.0		0.0	2015, 2020	-	-	-
METEM	2602	State the capabilities of the AN/UMK-4	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-

METEM	2603	State the deployment consideration for the AN/UMK-4	B	E	G	-	-	-	*		1.0		0.0		0.0	2015, 2020	-	-	-
METEM	2604	Setup surface meteorological sensing system	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2605	Perform post setup procedures on surface meteorological sensing system	B,R,M	-	L	-	-	-	730		0.0		0.0		2.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2606	Perform replacement procedures to the LRU for surface meteorological sensing system	B,R	-	L	-	-	-	*		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2607	Pack the meteorological surface sensing system	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2608	Setup the meteorological radar subsystem for integrated operation	B,R,M	-	L	-	-	-	730		0.0		0.0		2.0	2010, 2015, 2020, 2600	-	-	-
METEM	2609	Perform post setup procedures on the meteorological radar subsystem for integrated operation	B,R,M	-	L	-	-	-	730		0.0		0.0		2.0	2010, 2015, 2020, 2600	-	-	-
METEM	2610	Perform replacement procedures to the LRU for meteorological radar subsystem	B	-	L	-	-	-	*		0.0		0.0		3.0	2010, 2015, 2020, 2600	-	-	-
METEM	2611	Pack the meteorological radar subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		2.0	2010, 2015, 2020, 2600	-	-	-
METEM	2612	Setup the meteorological satellite subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-
METEM	2613	Perform post setup procedures on the meteorological satellite subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-
METEM	2614	Perform replacement procedures to the LRU for the meteorological satellite subsystem	B,R	-	L	-	-	-	*		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-

METEM	2615	Pack the meteorological satellite subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-
METEM	2616	Setup the meteorological upper air subsystems for integrated operations	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-
METEM	2617	Perform post setup procedures on the meteorological upper air subsystems for integrated operations	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-
METEM	2618	Perform replacement procedures to the LRU for the meteorological upper air subsystems	B,R	-	L	-	-	-	*		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-
METEM	2619	Pack the meteorological upper air subsystems	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600	-	-	-
METEM	2620	Setup meteorological communication subsystems	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2621	Perform post setup procedures on the meteorological communication subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2622	Perform replacement procedures to the LRU for the meteorological communication subsystem	B,R	-	L	-	-	-	*		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2623	Pack the meteorological communication subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2624	Setup meteorological product generation and dissemination subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2625	Perform post setup procedures on the meteorological product generation and dissemination subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		5.0	2010, 2015, 2020, 2600, 2602	-	-	-

METEM	2626	Perform replacement procedures to the LRU for the meteorological product generation and dissemination subsystem	B,R	-	L	-	-	-	*		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2627	Pack the meteorological product generation and dissemination subsystem	B,R,M	-	L	-	-	-	730		0.0		0.0		1.0	2010, 2015, 2020, 2600, 2602	-	-	-
METEM	2628	Perform PMS on the AN/TMQ-56	B,R	-	L	-	-	-	*		0.0		0.0		5.0	2010, 2015, 2020, 2214, 2215, 2600	-	-	-
METEM	2629	Perform PMS on the AN/UMK-4	B,R	-	L	-	-	-	*		0.0		0.0		3.0	2010, 2015, 2020, 2214, 2215, 2602	-	-	-
TOTAL METEOROLOGICAL EQUIPMENT MAINTENANCE (METEM) STAGE										4	4.0	0	0.0	26	42.0				
TOTAL CORE SKILL PHASE (2000 PHASE)										38	75.0	2	3.0	53	119.0				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																			
MAINTENANCE MANAGEMENT (MMGT) STAGE																			
MMGT	3200	Build the Contingency Support Package (CSP)	B,R,M	-	L	-	-	-	365		0.0		0.0		2.0	2205, 2234	-	-	-
TOTAL MAINTENANCE MANAGEMENT (MMGT) STAGE										0	0.0	0	0.0	1	2.0				
AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) STAGE																			
ADPE	3300	Perform System Administration	B,R,M	-	L	-	-	-	1095		0.0		0.0		8.0	2015, 2020	-	-	-
TOTAL AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) STAGE										0	0.0	0	0.0	1	8.0				
TACTICAL DATA LINKS (TDL) STAGE																			
TDL	3350	Identify TAOC and EW/C communications information exchange requirements	B,R,M	E	G	-	-	-	1095		1.0		0.0		0.0	-	-	-	-
TDL	3355	Identify LAAD Communications information exchange requirements	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
TOTAL TACTICAL DATA LINKS (TDL) STAGE										2	2.0	0	0.0	0	0.0				
DEPLOYMENT (DEPL) STAGE																			
DEPL	3400	Deploy a maintenance capability	B,R,M	-	L/S	-	-	-	1095		0		0		8.0	2015, 2020, 2205, 2221,	-	-	-

																2223, 2232, 2234, 3200			
TOTAL DEPLOYMENT (DEPL) STAGE										0	0.0	0	0.0	1	8.0				
METEOROGICAL FORECASTING (METF) STAGE																			
METEM	3600	Deploy the AN/TMQ-56	B,R,M	-	L	-	-	-	730		0		0		40.0	2015, 2020, 2150, 2155, 2205, 2223, 2234, 2400, 2600, 2601, 2602, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 3200	-	2400, 3200, 2604, 2605, 2607, 2608, 2609, 2611, 2612, 2613, 2615, 2616, 2617, 2619, 2620, 2621, 2623, 2624, 2625, 2627, 3601	-
METEM	3601	Provide meteorological maintenance services as a member of a crew	B,R,M	-	L	-	-	-	730		0		0		8.0	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2165, 2175, 2201, 2202, 2204, 2205, 2207, 2209, 2210, 2214, 2215, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2405, 2410, 2600, 2602, 2603, 2604,	-	-	-

																2605, 2606, 2607, 2610, 2611, 2612, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2626, 2627, 2628, 2629			
METEM	3605	Deploy the AN/UMK-4	B,R,M	-	L	-	-	-	730		0		0		8.0	2015, 2020, 2150, 2155, 2205, 2223, 2234, 2400, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 3200	-	2400, 3200, 2604, 2605, 2607, 2620, 2621, 2623, 2624, 2625, 2627, 3601	-
TOTAL METEOROGICAL FORECASTING (METF) STAGE										0	0.0	0	0.0	3	56.0				
TOTAL MISSION SKILL PHASE (3000 PHASE)										2	2.0	0	0.0	6	74.0				
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)																			
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)										0	0.0	0	0.0	0	0.0				
TOTAL 2000, 3000, AND 4000 PHASE										40	77.0	2	3.0	59	193.0				
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																			
INSTRUCTOR UNDER TRAINING (IUT)																			
BASIC INSTRUCTOR (BI)																			
IUT	5000	Introduce principles of instruction.	B	E	G	-	-	-	*		2.0		0		0	-	-	-	5000
IUT	5010	Understand the structure of an event.	B	E	G	-	-	-	*		1.0		0		0	5000	-	-	5010
IUT	5020	Conduct a period of instruction on a T&R event.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010	-	-	5020
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										3	5.0	0	0.0	0	0.0				
SENIOR INSTRUCTOR (SI)																			

IUT	5100	Understand the Aviation Training and Readiness (T&R) Program.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010, 5020, 6320	-	-	5100
IUT	5110	Understand the applicable community T&R program.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010, 5020, 5100, 6320	-	-	5110
IUT	5120	Understand T&R administration.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010, 5020, 5100, 5110, 6320	-	-	5120
IUT	5130	Develop a training plan.	B,R,M	E	G	-	-	-	365		2.0		0		0	5000, 5010, 5020, 5100, 5110, 5120, 6320	-	-	5130
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										4	8.0	0	0.0	0	0.0				
TOTAL INSTRUCTOR UNDER TRIANING SKILLS PHASE (IUT)										7	13.0	0	0.0	0	0.0				
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																			
DESIGNATIONS (DESG) STAGE																			
DESG	6320	Designation as the Basic Instructor (BI)	B	-	L	-	-	-	*		0		0		1.0	5000, 5010, 5020	-	-	-
DESG	6321	Designation as the Senior Instructor (SI)	B	-	L	-	-	-	*		0		0		1.0	5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320	-	-	-
DESG	6365	Designation as the METEM Work Center Supervisor (WCS)	B	-	L	-	-	-	*		0		0		1.0	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2160, 2165, 2170, 2175, 2201, 2202, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2217, 2218, 2220, 2221, 2223, 2232, 2233, 2234, 2250, 2251, 2252, 2253, 2254, 2255, 2256,	-	-	-

															2257, 2258, 2259, 2260, 2261, 2262, 2265, 2300, 2305, 2310, 2315, 2320, 2335, 2340, 2350, 2355, 2400, 2405, 2410, 2601, 2608, 2609, 2613, 2625, 3200, 3300, 3400, 3600, 3605, 8000, 8020			
DESG	6370	Designation as the Quality Assurance (QA) Audit Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2253	-	-	-
DESG	6375	Designation as the Central Technical Publications Library (CTPL) Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2252	-	-	-
DESG	6380	Designation as the Technical Directive (TD) Compliance Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2254	-	-	-
DESG	6385	Designation as the Electrostatic Discharge (ESD/EMI) Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2261	-	-	-
DESG	6390	Designation as the Foreign Object Damage (FOD) Prevention Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2259	-	-	-
DESG	6400	Designation as the Corrosion Prevention and Control Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2250	-	-	-
DESG	6405	Designation as the Naval Aviation Metrology and Calibration (METCAL)	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2257	-	-	-

		Program Manager																	
DESG	6410	Designation as the Maintenance Administration Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2266	-	-	-
DESG	6420	Designation as the Naval Aviation Maintenance Discrepancy Reporting (NAMDRP) Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2258	-	-	-
DESG	6425	Designation as the Aircraft Maintenance Material Readiness List (AMMRL) Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2256	-	-	-
DESG	6430	Designation as the Maintenance Department/Division Safety Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2255	-	-	-
DESG	6440	Designation as the Battery Maintenance Safety Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2262	-	-	-
DESG	6445	Designation as the Tool Control Program Manager	B	-	L	-	-	-	*		0		0		1.0	2010, 2015, 2020, 2260	-	-	-
TOTAL DESIGNATIONS (DESG) STAGE										0	0.0	0	0.0	16	16.0				
CERTIFICATIONS (CERT) STAGE																			
CERT	6610	Obtain Naval Aviation Quality Assurance Administration Certification	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
CERT	6615	Obtain CPR certification	B,R,M	-	L	-	-	-	365		0		0		1.0	-	-	-	-
CERT	6620	Obtain Aeronautical Technical Publications Library certification	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
CERT	6630	Obtain Hazard Material Program Manager Certification	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
CERT	6635	Corrosion Control Certification	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-

CERT	6645	Obtain Maintenance Control certification	B	-	L	-	-	-	*		0		0		1.0	-	-	-	-
TOTAL CERTIFICATIONS (CERT) STAGE										0	0.0	0	0.0	6	6.0				
QUALIFICATIONS (QUAL) STAGE																			
QUAL	6745	Qualification as a METEM Basic Technician (MBT)	B	-	L	-	-	-	*		0		0		1.0	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2165, 2175, 2201, 2202, 2204, 2205, 2207, 2209, 2210, 2214, 2215, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2405, 2410, 2600, 2602, 2603, 2604, 2605, 2606, 2607, 2610, 2611, 2612, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2626, 2627, 2628, 2629, 8000	-	-	-

QUAL	6750	Qualification as a METEM Advanced Technician (MAT)	B	-	L	-	-	-	*		0		0		1.0	2000, 2005, 2010, 2015, 2020, 2050, 2055, 2100, 2115, 2150, 2155, 2160, 2165, 2170, 2175, 2201, 2202, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2217, 2218, 2220, 2221, 2223, 2232, 2233, 2234, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2265, 2300, 2305, 2310, 2315, 2320, 2335, 2340, 2350, 2355, 2400, 2405, 2410, 2601, 2608, 2609, 2613, 2625, 3200, 3300, 3605, 8000, 8020	-	-	-
TOTAL QUALIFICATIONS (QUAL) STAGE										0	0.0	0	0	3	2.0				
TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFCATIONS, AND DESIGNATIONS PHASE (RQCD)										0	0.0	0	0.0	25	24.0				

2.19 ADDITIONAL MATRICES. None

2.20 ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS. None

2.21 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

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

CHAPTER 3
METEOROLOGICAL AND OCEANOGRAPHIC (METOC) SERVICES OFFICER INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

	PARAGRAPH	PAGE
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS.	3.0	3-3
TRAINING PROGRESSION MODEL.	3.1	3-3
ABBREVIATIONS.	3.2	3-3
DEFINITIONS.	3.3	3-4
INDIVIDUAL CORE/MISSION/CORE PLUS PROFICIENCY REQUIREMENTS.	3.4	3-5
CERTIFICATION, QUALIFICATION AND DESIGNATION TABLE.	3.5	3-12
PROGRAMS OF INSTRUCTION (POI).	3.6	3-14
SYLLABUS NOTES.	3.7	3-15
ACADEMIC PHASE (0000).	3.8	3-17
CORE SKILL INTRODUCTION PHASE (1000).	3.9	3-17
CORE SKILL PHASE (2000).	3.10	3-17
MISSION SKILL PHASE (3000).	3.11	3-112
CORE/MISSION PLUS SKILL PHASE (4000).	3.12	3-155
INSTRUCTOR TRAINING PHASE (5000).	3.13	3-180
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) PHASE (6000).	3.14	3-181
MET PHASE (7000).	3.15	3-190
AVIATION CAREER PROGRESSION MODEL (8000).	3.16	3-196
T&R ATTAIN AND MAINTAIN TABLE.	3.17	3-198
T&R SYLLABUS MATRIX.	3.18	3-213
ADDITIONAL MATRIX (ORDNANCE/RANGES).	3.19	3-260
ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS.	3.20	3-260
AVIATION TRAINING FORMS (ATF).	3.21	3-260
TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM). .	3.22	3-260

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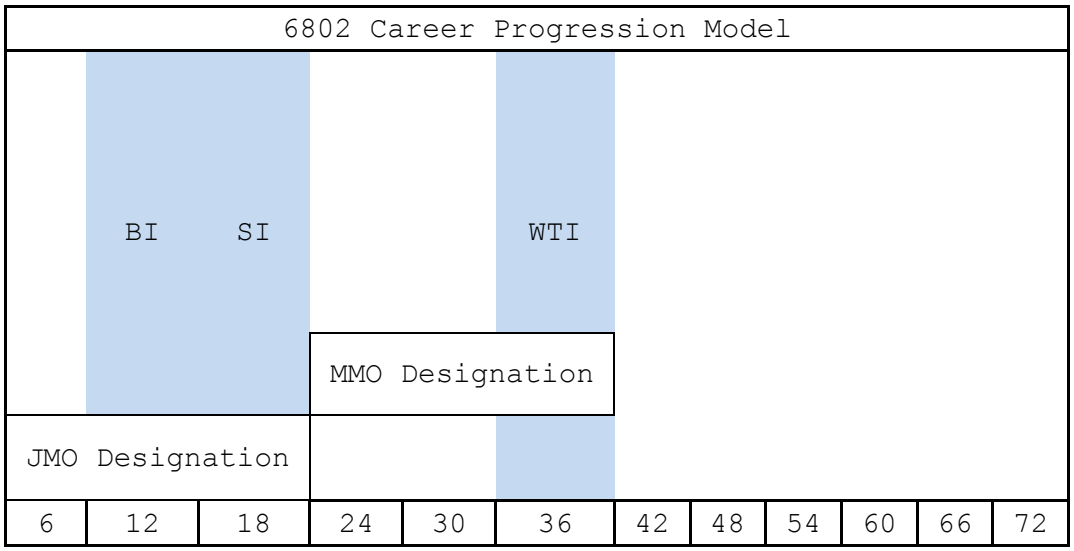
CHAPTER 3
METOC SERVICES
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

3.0 METOC OFFICER (MOS 6802) INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. The METOC training progression model represents training progression. This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core, Mission, and Core Plus Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

3.1 MOS 6802 TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average 6802 METOC Officer. 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

METOC OFFICER (6802)	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILL (2000 Phase)	
ACAD	ACADEMIC
ADM	ADMINISTRATION
AMS	APPLIED METEOROLOGICAL SCIENCE
ATD	ASTRONOMICAL/TIDAL DATA
COMM	COMMUNICATIONS
EQPT	EQUIPMENT
FAM	FAMILIARIZATION
LFA	LITTORAL FORECASTING/ANALYSIS
MDA	METOC DATA ANALYSIS
MDN	METOC DOCTRINE

METF	METEROLOGICAL FORECASTING
MGT	MANAGEMENT
MIA	METOC IMPACT ASSESSMENT
MPB	METOC PRODUCT BRIEFING
MSO	METEOROLOGICAL SURFACE OBSERVATIONS
UAS	UPPER ATMOSPHERIC SENSING
MISSION SKILLS (3000 PHASE)	
ACAD	ACADEMICS
ADM	ADMINISTRATION
ATD	ASTRONOMICAL/TIDAL DATA
EQPT	EQUIPMENT
LFA	LITTORAL FORECASTING/ANALYSIS
METF	METEROLOGICAL FORECASTING
MGT	MANAGEMENT
MPB	METOC PRODUCT BRIEFING
MPC	METOC PLANNING COORDINATION
MSO	METEOROLOGICAL SURFACE OBSERVATIONS
CORE PLUS SKILLS (4000 PHASE)	
ACAD	ACADEMICS
MDN	METOC DOCTRINE
MGT	MANAGEMENT
MMTM	MARINE ATC MOBILE TEAM MEMBER
INSTRUCTOR (5000 Phase)	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
WTI	WEAPONS AND TACTICS INSTRUCTOR
CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)	
JMO	JOURNEYMAN METOC OFFICER
MMO	MASTER METOC OFFICER

3.3 DEFINITIONS

TERM	DEFINITION
Core Model	The Core Model is the basic foundation or standardized format by which all T&Rs are constructed. The Core model provides the capability of quantifying both unit and individual training requirements and measuring readiness. This is accomplished by linking community Mission Statements, Mission Essential Task Lists, Output Standards, Core Skill Proficiency Requirements and Combat Leadership Matrices.
Core Skill	Fundamental, environmental, or conditional capabilities required to perform basic functions. These basic functions serve as tactical enablers that allow crews to progress to the more complex Mission Skills. Primarily 2000 Phase events but may be introduced in the 1000 Phase.
Mission Skill	Mission Skills enable a unit to execute a specific MET. They are comprised of advanced event(s) that are focused on MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness developed during Core Skill training. 3000 Phase events.

Core Plus Skill	Training events that can be theater specific or that have a low likelihood of occurrence. They may be Fundamental, environmental, or conditional capabilities required to perform basic functions. 4000 Phase events.
Core Plus Mission	Training events that can be theater specific or that have a low likelihood of occurrence. They are comprised of advanced event(s) that are focused on Core Plus MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness. 4000 Phase events.
Core Skill Proficiency (CSP)	CSP is a measure of training completion for 2000 Phase events. CSP is attained by executing all events listed in the Attain Table for each Core Skill. The individual must be simultaneously proficient in all events within that Core Skill to attain CSP.
Mission Skill Proficiency (MSP)	MSP is a measure of training completion for 3000 Phase events. MSP is attained by executing all events listed in the Attain Table for each Mission Skill. The individual must be simultaneously proficient in all events within that Mission Skill to attain MSP. MSP is directly related to Training Readiness.
Core Plus Skill Proficiency (CPSP)	CPSP is a measure of training completion for 4000 Phase "Skill" events. CPSP is attained by executing all events listed in the Attain Table for each Core Plus Skill. The individual must be simultaneously proficient in all events within that Core Plus Skill to attain CPSP.
Core Plus Mission Proficiency (CPMP)	CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP.

3.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

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 maintinaing 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 of the Aviation Program Manual for amplifying information on POI updating.

METOC 6802					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
ACAD	2000				
ACAD	2001				
ACAD	2002				
ACAD	2003				
ACAD	2004				
ACAD	2005				
ACAD	2005				
ACAD	2006				
ACAD	2006				
ACAD	2007				
ACAD	2008				
ACAD	2009				
ACAD	2010				
ACAD	2011				
ACAD	2012				
ACAD	2013				
ACAD	2014				
ACAD	2015				
ACAD	2016				
ACAD	2016				
ACAD	2017				
ACAD	2018				
ACAD	2019				
ACAD	2020				
ACAD	2021				
ACAD	2022				
ACAD	2023				
ACAD	2024				
ACAD	2025				
ACAD	2026				
ACAD	2027				
ACAD	2028				
ACAD	2029				
ACAD	2030				
ACAD	2031				
ACAD	2032				
ACAD	2033				
ACAD	2034				

ACAD	2035				
ACAD	2036				
ACAD	2037				
ACAD	2038				
ACAD	2039				
ACAD	2040				
ACAD	2041				
ACAD	2042				
ACAD	2043				
ACAD	2044				
ACAD	2045				
ACAD	2046				
ACAD	2047				
ACAD	2048				
ACAD	2049				
ACAD	2050				
ACAD	2051				
ACAD	2052				
ACAD	2053				
ACAD	2055				
ACAD	2056				
ACAD	2057				
ACAD	2058				
ACAD	2059				
ACAD	2060				
ACAD	2061				
ACAD	2062				
ACAD	2063				
ACAD	2070				
ACAD	2071				
ACAD	2072				
ACAD	2073				
ACAD	2074				
ACAD	2075				
ACAD	2076				
ACAD	2077				
ACAD	2078				
ACAD	2079				
ACAD	2080				
ACAD	2081				
ACAD	2082				
ACAD	2083				
ACAD	2090				
ACAD	2091				
ACAD	2100				
ACAD	2101				
ACAD	2102				
ACAD	2103				

ACAD	2104				
ACAD	2105				
ACAD	2106				
ACAD	2107				
ACAD	2108				
ACAD	2109				
MSO	2200				
MSO	2201				
MSO	2202				
MSO	2203	MSO	2203	MSO	2203
MSO	2204				
MSO	2205	MSO	2205	MSO	2205
MSO	2206				
UAS	2250	UAS	2250	UAS	2250
UAS	2251	UAS	2251	UAS	2251
UAS	2252				
ATD	2300				
ATD	2301				
FAM	2350				
EQPT	2400	EQPT	2400	EQPT	2400
EQPT	2401	EQPT	2401	EQPT	2401
EQPT	2402	EQPT	2402	EQPT	2402
EQPT	2403	EQPT	2403	EQPT	2403
EQPT	2404	EQPT	2404	EQPT	2404
EQPT	2405	EQPT	2405	EQPT	2405
EQPT	2406	EQPT	2406	EQPT	2406
EQPT	2407	EQPT	2407	EQPT	2407
AMS	2500				
AMS	2501				
AMS	2502				
AMS	2503				
MDA	2550				
MDA	2551	MDA	2551	MDA	2551
MDA	2552	MDA	2552	MDA	2552
MDA	2553	MDA	2553	MDA	2553
MDA	2554	MDA	2554	MDA	2554
MDA	2555	MDA	2555	MDA	2555
MDA	2556	MDA	2556	MDA	2556
METF	2600				
METF	2601	METF	2601	METF	2601
METF	2602				
METF	2603				
MPB	2650	MPB	2650		
MPB	2651	MPB	2651	MPB	2651
COMM	2700				
COMM	2701	COMM	2701	COMM	2701
COMM	2702	COMM	2702	COMM	2702
COMM	2703	COMM	2703	COMM	2703

COMM	2704	COMM	2704		
COMM	2705	COMM	2705		
COMM	2706	COMM	2706		
COMM	2707	COMM	2707	COMM	2707
MDN	2750				
MDN	2751				
ADM	2800				
ADM	2801				
ADM	2802				
ADM	2803				
ADM	2804				
ADM	2805				
ADM	2806				
ADM	2807				
ADM	2808				
ADM	2809				
ADM	2810				
MGT	2850				
MGT	2851				
MGT	2852				
MGT	2853				
MGT	2854				
MGT	2855				
MGT	2856				
MGT	2857				
LFA	2900				
MIA	2950				
MIA	2951				
MIA	2952				
MIA	2953				
MISSION SKILL (3000 Phase)					
STAGE	**CODE**	**STAGE**	**CODE**	**STAGE**	**CODE**
ACAD	3000				
ACAD	3001				
ACAD	3002				
ACAD	3003				
ACAD	3004				
ACAD	3005				
ACAD	3006				
ACAD	3007				
ACAD	3008				
ACAD	3009				
ACAD	3010				
ACAD	3011				
ACAD	3020				
ACAD	3021				
ACAD	3022				
ACAD	3023				

ACAD	3024				
ACAD	3025				
ACAD	3026				
ACAD	3027				
ACAD	3028				
ACAD	3029				
ACAD	3030				
ACAD	3031				
ACAD	3032				
ACAD	3033				
MSO	3100	MSO	3100	MSO	3100
MSO	3101	MSO	3101	MSO	3101
MSO	3102	MSO	3102	MSO	3102
ATD	3150	ATD	3150	ATD	3150
ATD	3151	ATD	3151	ATD	3151
EQPT	3200	EQPT	3200	EQPT	3200
EQPT	3201	EQPT	3201	EQPT	3201
EQPT	3202	EQPT	3202	EQPT	3202
EQPT	3203	EQPT	3203	EQPT	3203
EQPT	3204	EQPT	3204	EQPT	3204
EQPT	3205	EQPT	3205	EQPT	3205
EQPT	3206	EQPT	3206	EQPT	3206
EQPT	3207	EQPT	3207	EQPT	3207
EQPT	3208	EQPT	3208	EQPT	3208
EQPT	3209	EQPT	3209	EQPT	3209
EQPT	3210	EQPT	3210	EQPT	3210
EQPT	3211	EQPT	3211	EQPT	3211
EQPT	3212	EQPT	3212	EQPT	3212
EQPT	3213	EQPT	3213	EQPT	3213
EQPT	3214	EQPT	3214	EQPT	3214
EQPT	3215	EQPT	3215	EQPT	3215
EQPT	3216	EQPT	3216	EQPT	3216
EQPT	3217	EQPT	3217	EQPT	3217
EQPT	3218	EQPT	3218	EQPT	3218
EQPT	3219	EQPT	3219	EQPT	3219
METF	3250	METF	3250	METF	3250
METF	3251	METF	3251	METF	3251
MPB	3300	MPB	3300	MPB	3300
MPB	3301	MPB	3301	MPB	3301
MPB	3302	MPB	3302	MPB	3302
MPB	3303	MPB	3303	MPB	3303
MPB	3304	MPB	3304		
MPB	3305	MPB	3305		
MPB	3306	MPB	3306		
MPB	3307	MPB	3307		
LFA	3350	LFA	3350	LFA	3350
LFA	3351	LFA	3351	LFA	3351
MIA	3400	MIA	3400	MIA	3400

MIA	3401	MIA	3401	MIA	3401
MIA	3402	MIA	3402	MIA	3402
MGT	3450	MGT	3450	MGT	3450
MGT	3451	MGT	3451	MGT	3451
MPC	3500				
MPC	3501	MPC	3501	MPC	3501
MPC	3502				
MPC	3503				
MPC	3505				
CORE PLUS (4000 Phase)					
STAGE	CODE	**STAGE**	**CODE**	**STAGE**	**CODE**
ACAD	4000				
ACAD	4001				
ACAD	4002				
ACAD	4010				
ACAD	4011				
ACAD	4012				
ACAD	4013				
ACAD	4014				
ACAD	4015				
ACAD	4016				
ACAD	4017				
ACAD	4018				
ACAD	4019				
ACAD	4020				
ACAD	4021				
ACAD	4022				
ACAD	4030				
MDN	4200				
MDN	4201	MDN	4201		
MDN	4202	MDN	4202		
MDN	4203	MDN	4203		
MDN	4204	MDN	4204		
MDN	4205	MDN	4205		
MDN	4206	MDN	4206		
MDN	4207	MDN	4207		
MDN	4208	MDN	4208		
MDN	4209	MDN	4209		
MGT	4250	MGT	4250	MGT	4250
MGT	4251	MGT	4251		
MGT	4252	MGT	4252		
MGT	4253	MGT	4253		
MGT	4254	MGT	4254	MGT	4254
MMTM	4300				
MMTM	4301				
MMTM	4302	MMTM	4302		
MMTM	4303	MMTM	4303	MMTM	4303
MMTM	4304	MMTM	4304	MMTM	4304

MMTM	4305	MMTM	4305		
MMTM	4306	MMTM	4306		
"S" PREFIX AND BLUE FONT = SIMULATOR EVENT					
"R" SUFFIX AND GRAY 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. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

3.5.1 Instructor Designations

METOC (6802)		
INSTRUCTOR DESIGNATIONS (5000 PHASE)		
INSTRUCTOR DESIGNATION	**TRACKING CODE**	**EVENTS**
BASIC INSTRUCTOR (BI)	6320	5000, 5010, 5020
SENIOR INSTRUCTOR (SI)	6321	5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320
WEAPONS AND TACTICS INSTRUCTOR (WTI)	6322	6000

3.5.2 Requirements, Certifications, Qualifications, and Designations

METOC ANALYST 6802	
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)	
RCQD	**EVENTS**
Qualify as a METOC Observer (MO).	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 3100, 3102, 3150, 3151, 6200
Qualify as an Apprentice METOC Analyst Forecaster (AMAF).	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3102, 3150, 3151, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Qualify as a Journeyman METOC Analyst Forecaster (JMAF).	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3102, 3150, 3151, 3203, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Qualify as a METOC Support Team Observer (MSTO).	2000, 2001, 2002, 2071, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2700, 2702, 2703, 3004, 3026, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 6200, 6211
Qualify as a METOC Support Team Forecaster (MSTF).	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 3001, 3002, 3003, 3004, 3022, 3023, 3024, 3025, 3026, 3027, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Qualify as a METOC Support Team Leader (MSTL).	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2101, 2108, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 6202, 6203, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Certify as a Station MO.	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2350, 2400, 3100, 3102, 3150, 3151, 3200, 3201, 6200
Certify as a Tactical MO.	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 6200

Certify as a Tactical AMAF.	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2402, 2403, 2404, 2405, 2406, 2407, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3102, 3150, 3151, 3202, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Designation as a Journeyman METOC Officer (JMO).	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2850, 2851, 2852, 2853, 2855, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3029, 3031, 3032, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3501, 3502, 3503, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088
Designation as a Master METOC Officer (MMO).	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3029, 3030, 3031, 3032, 3033, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3501, 3502, 3503, 3505, 6200, 6201, 6202, 6310, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088

3.6 6802 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

METOC OFFICER 6802 BASIC POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**

1-64	CORE SKILL TRAINING	FMF UNIT
65-116	MISSION SKILL TRAINING	FMF UNIT
116-156	CORE PLUS TRAINING	FMF UNIT

3.6.2 Refresher POI

METOC OFFICER 6802 REFRESHER POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
VARIES	CORE SKILL TRAINING	FMF UNIT
VARIES	MISSION SKILL TRAINING	FMF UNIT
VARIES	CORE PLUS	FMF UNIT

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 flown unaided
(N*)	May be conducted during hours of darkness – If conducted during hours of darkness must be flown unaided
(N)	May be conducted during darkness – If conducted during hours of darkness; may be flown aided or unaided
NS	Shall be conducted during hours of darkness – Mandatory use of Night Vision Devices
(NS)	May be conducted during darkness – If conducted during hours of darkness; must be flown with Night Vision Devices
Note – If the event is to be conducted in the simulator the Simulator Instructor shall set the desired environmental conditions for the event.	

3.7.2 Device Matrix.

DEVICE	
Symbol	**Meaning**
L	Event shall be conducted live (conducted in the field/garrison, during an exercise, etc). Requires live (non-simulated) execution of the event.
L/S	Event performed live preferred/simulator optional.

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

3.7.3 Program of Instruction Matrix.

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

3.7.4 Event Terms

EVENT TERMS	
TERM	**DESCRIPTION**
Discuss	An explanation of systems, procedures, or tactics during the brief, exercise, or debrief. Student is responsible for knowledge of procedures.
Demonstrate	The description and performance of a particular event by the instructor, observed by the student. The student is responsible for knowledge of the procedures prior to the demonstration of a required event.
Introduce	The instructor may demonstrate a procedure or event to a student, or may coach the student through the maneuver without demonstration. The student performs the procedures or maneuver with coaching as necessary. The student is responsible for knowledge of the procedures.
Practice	The performance of a maneuver or procedure by the student that may have been previously introduced in order to attain a specified level of performance.

Review	Demonstrated proficiency of an event by the student.
Evaluate	Any event designed to evaluate team/crew standardization that does not fit another category.
E-Coded	This term means an event evaluation form is required each time the event is logged. Requires evaluation by a certified standardization instructor (NATOPS I, WTI, INST Evaluator etc.).

3.8 ACADEMIC PHASE (0000)

3.8.1 Purpose. **RESERVED FOR FUTURE USE**

3.8.2 General

3.8.2.1 Admin Notes. None

3.8.2.2 Prerequisites. None

3.8.2.3 Stages. None

3.9 CORE SKILL INTRODUCTION PHASE (1000 PHASE)

3.9.1 Purpose. The Meteorological and Oceanographic Officer (MOS 6802) does not attend a formal training course to receive the MOS. This MOS designation is given at the completion of The Warrant Officer Basic School at Quantico.

3.9.2 General.

3.9.2.1 Prerequisite. None

3.9.2.2 Admin Notes. None

3.9.2.3 Stages. None

3.10 CORE SKILL PHASE (2000 PHASE)

3.10.1 Purpose. To train METOC Officer in the skills necessary to master the core competency of a meteorological and oceanographic officer directing METOC operations. This phase of training also introduces follow-on skills to broaden individual skill beyond that of Marine Corps METOC operations. Core skills and supporting events are specific mission-related task areas that support METOC METs. Core skills are grouped into T&R events and are appropriately labeled as stages of training. The core model requires individual and unit proficiency in 2000 level core skills in order to perform all tasks in the unit METL and to execute the unit core capability. This phase is essential to wartime employment of the unit. Individuals should normally complete this phase of training within the first year and a half of assignment to a unit (approximately 18 months).

3.10.2 General

3.10.2.1 Prerequisite. None

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

PAR NO.	STAGE NAME
3.10.3	ACADEMIC (ACAD)
3.10.4	METEOROLOGICAL SURFACE OBSERVATIONS (MSO)
3.10.5	UPPER ATMOSPHERIC SENSING (UAS)
3.10.6	ASTRONOMICAL/TIDAL DATA (ATD)
3.10.7	FAMILIARIZATION (FAM)
3.10.8	EQUIPMENT (EQPT)
3.10.9	APPLIED METEOROLGICAL SCIENCE (AMS)
3.10.10	METOC DATA ANALYSIS (MDA)
3.10.11	METEROLOGICAL FORECASTING (METF)
3.10.12	METOC PRODUCT BRIEFING (MPB)
3.10.13	COMMUNICATIONS (COMM)
3.10.14	METOC DOCTRINE (MDN)
3.10.15	ADMINISTRATION (ADM)
3.10.16	MANAGEMENT (MGT)
3.10.17	LITTORAL FORECASTING/ANALYSIS (LFA)
3.10.18	METOC IMPACT ASSESSMENT (MIA)

3.10.3 ACADEMICS (ACAD) STAGE

3.10.3.1 Purpose. The stage outlines all relevant computer based training modules, correspondence courses, instructor-led distance learning courses, and formal resident courses to assist in the completion of events within the 2000 level phase of training.

3.10.3.2 General.

Prerequisite. None

Admin Notes. None

Crew Requirements. None

ACAD-2000 3.0 * B E G

Goal. Complete 'Aerographer's Mate Third Class METOC Training Manual (AG3)' Module.

Requirement. Perform the module requirements of the 'Aerographer's Mate Third Class METOC Training Manual' Module. (NKO Course Code: METOC-045-841-612-001)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ACAD-2001 3.0 * B E G

Goal. Complete 'Skew-T Mastery' Module.

Requirement. Perform the module requirements of the 'Skew-T Mastery' Module from NKO or COMET UCAR. (NKO Course Code: METOC 045-833-106-009)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2002 2.0 * B E G

Goal. Complete 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module.

Requirement. Perform the module requirements of the 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2003 10.0 * B E G

Goal. Complete 'Aerographer's Mate Second Class (AG2) Vol I METOC Training Manual' Module.

Requirement. Perform the module requirements of the 'Aerographer's Mate Second Class Vol I METOC Training Manual' Module. (NKO Course Code: METOC-045-841-610-002)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Second Class Vol I METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ACAD-2004 40.0 * B E G

Goal. Complete 'Aerographer's Mate Second (AG2) Class Vol II METOC Training Manual' Module.

Requirement. Perform the module requirements of the 'Aerographer's Mate Second Class Vol II METOC Training Manual' Module. (NKO Course Code: METOC-045-841-611-003)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. 2000, 2003

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Second Class Vol II METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ACAD-2005 2.0 * B E G

Goal. Complete 'Forecasting Radiation Fog' Module.

Requirement. Perform the module requirements of the 'Forecasting Radiation Fog' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-FRF-2.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2006 3.0 * B E G

Goal. Complete 'Dynamically Forced Fog' Module.

Requirement. Perform the module requirements of the 'Dynamically Forced Fog' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-DFF-1)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2007 3.0 * B E G

Goal. Complete 'Local Influences on Fog and Low Stratus' Module.

Requirement. Perform the module requirements of the 'Local Influences on Fog and Low Stratus' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2008 1.0 * B E G

Goal. Complete 'Thermally-Forced Circulation I: Sea Breezes' Module.

Requirement. Perform the module requirements of the 'Thermally-Forced Circulation I: Sea Breezes' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12007)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2009 1.0 * B E G

Goal. Complete 'Thermally-Forced Circulation II: Mountain Valley Winds' Module.

Requirement. Perform the module requirements of the 'Thermally-Forced Circulation I: Mountain Valley Winds' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12010)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004, 2008

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2010 3.0 * B E G

Goal. Complete 'Cold Air Damming' Module.

Requirement. Perform the module requirements of the 'Cold Air Damming' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12013)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2011 3.0 * B E G

Goal. Complete 'Coastally Trapped Wind Reversals' Module.

Requirement. Perform the module requirements of the 'Coastally Trapped Wind Reversals' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12016)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2012 2.0 * B E G

Goal. Complete 'Gap Winds' Module.

Requirement. Perform the module requirements of the 'Gap Winds' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12022)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2013 1.0 * B E G

Goal. Complete 'Flow Interaction with Topography' Module.

Requirement. Perform the module requirements of the 'Flow Interaction with Topography' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-FIWT-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2014 1.0 * B E G

Goal. Complete 'Mountain Waves and Downslope Winds' Module.

Requirement. Perform the module requirements of the 'Mountain Waves and Downslope Winds' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-MWADW-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2015 3.0 * B E G

Goal. Complete 'Atmospheric Dust' Module.

Requirement. Perform the module requirements of the 'Atmospheric Dust' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2016 2.0 * B E G

Goal. Complete 'Forecasting Dust Storms Version 2' Module.

Requirement. Perform the module requirements of the 'Atmospheric Dust' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2015

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2017 1.0 * B E G

Goal. Complete 'Low-Level Coastal Jets' Module.

Requirement. Perform the module requirements of the 'Low-Level Coastal Jets' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-841-106-015)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2018 2.0 * B E G

Goal. Complete 'Jet Streak Circulations' Module.

Requirement. Perform the module requirements of the 'Jet Streak Circulations' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-838-106-007)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2019 0.5 * B E G

Goal. Complete 'Vorticity Maxima and Comma Patterns' Module.

Requirement. Perform the module requirements of the 'Vorticity Maxima and Comma Patterns' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2020 0.4 * B E G

Goal. Complete 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module.

Requirement. Perform the module requirements of the 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2021 0.5 * B E G

Goal. Complete 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module.

Requirement. Perform the module requirements of the 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2022 1.0 * B E G

Goal. Complete 'Principles of Convection I: Buoyancy and CAPE' Module.

Requirement. Perform the requirements within the 'Principles of Convection I: Buoyancy and CAPE' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-BAC-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2023 1.0 * B E G

Goal. Complete 'Principles of Convection II: Using Hodographs' Module.

Requirement. Perform the module requirements of the 'Principles of Convection II: Using Hodographs' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-UH-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004, 2022

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2024 1.0 * B E G

Goal. Complete 'Principles of Convection III: Shear and Convective Storms' Module.

Requirement. Perform the module requirements of the 'Principles of Convection III: Shear and Convective Storms' Module from NKO or COMET UCAR. (NKO Course Code: NMOPD-SACS-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004, 2022, 2023

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2025 8.0 * B E G

Goal. Complete 'Lectures on Radar Applications in Mesoscale Meteorology' Module.

Requirement. Understand the following:

1. Microphysical Characterization of Precipitation Systems Using Dual-Polarization Radar Measurements
2. Single Doppler Retrieval and Assimilation Techniques for Use in Mesoscale Models
3. Analysis of Mesoscale Processes Using Wind Profiling Radars and Velocity Azimuth Display (VAD)
4. Airborne Doppler Radar Analysis of Tropical and Extratropical Mesoscale Systems

Performance Standard. Participate in guided discussion.

Instructor. SI (Lectures provided via COMET UCAR)

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2026 2.0 * B E G

Goal. Complete 'Landfalling Fronts and Cyclones' Module.

Requirement. Perform the module requirements of the 'Landfalling Fronts and Cyclones' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-838-106)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2027 1.0 * B E G

Goal. Complete 'How Mesoscale Models Work' Module.

Requirement. Perform the module requirements of the 'How Mesoscale Models Work' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12031)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2028 1.0 * B E G

Goal. Complete 'Definition of the Mesoscale' Module.

Requirement. Perform the module requirements of the 'Definition of the Mesoscale' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12025)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2029 2.0 * B E G

Goal. Complete 'Introduction to Ensemble Prediction' Module.

Requirement. Perform the module requirements of the 'Introduction to Ensemble Prediction' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-838-106-005)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2030 2.0 * B E G

Goal. Complete 'Ten Common NWP Misconceptions' Module.

Requirement. Perform the module requirements of the 'Ten Common NWP Misconceptions' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-792-106-016)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2031 5.0 * B E G

Goal. Complete 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module

Requirement. Perform the module requirements of the 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2032 4.0 * B E G

Goal. Complete 'Mesoscale Banded Precipitation' Module.

Requirement. Perform the module requirements of the 'Mesoscale Banded Precipitation' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-MBP-1)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2033 2.0 * B E G

Goal. Complete 'Intelligent Use of Model-Derived Products -Version 2' Module.

Requirement. Perform the module requirements of the 'Intelligent Use of Model-Derived Products -Version 2' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-833-106-042)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2034 0.5 * B E G

Goal. Complete 'Effective Use of NWP in the Forecast Process: Introduction' Module

Requirement. Understand the following:

1. How human forecasters add value to NWP.
2. How understanding NWP adds value.

Performance Standard. Obtain completion certificate.

Instructor. SI (Lectures provided via COMET UCAR)

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2035 1.5 * B E G

Goal. Complete 'Influence of Model Physics on NWP Forecasts-Version 2' Module.

Requirement. Perform the module requirements of the 'Influence of Model Physics on NWP Forecasts- Version 2' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2036 1.0 * B E G

Goal. Complete 'Introduction to Climatology' Module.

Requirement. Perform the module requirements of the 'Introduction to Climatology' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2037 1.0 * B E G

Goal. Complete 'Isentropic Analysis' Module.

Requirement. Perform the module requirements of the 'Isentropic Analysis' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2038 1.0 * B E G

Goal. Complete 'PBL in Complex Terrain - Part 1' Module.

Requirement. Perform the module requirements of the 'PBL in Complex

Terrain - Part 1' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2039 1.2 * B E G

Goal. Complete 'PBL in Complex Terrain - Part 2' Module.

Requirement. Perform the module requirements of the 'PBL in Complex Terrain - Part 2' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2038

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2040 1.0 * B E G

Goal. Complete 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module.

Requirement. Perform the module requirements of the 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2041 2.0 * B E G

Goal. Complete 'Forecasting Aviation Icing: Icing Type and Severity' Module.

Requirement. Perform the module requirements of the 'Forecasting Aviation Icing: Icing Type and Severity' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-816-106-003)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2042 2.0 * B E G

Goal. Complete 'Writing Effective TAFS' Module.

Requirement. Perform the module requirements of the 'Writing Effective TAFS' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2043 2.0 * B E G

Goal. Complete 'Writing TAFS for Convective Weather' Module.

Requirement. Perform the module requirements of the 'Writing TAFS for Convective Weather' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2044 3.0 * B E G

Goal. Complete 'Writing TAFS for Winds and LLWS' Module.

Requirement. Perform the module requirements of the 'Writing TAFS for Winds and LLWS' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2042, 2043

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2045 2.0 * B E G

Goal. Complete 'Writing TAFs for Ceiling and Visibility' Module.

Requirement. Perform the module requirements of the 'Writing TAFs for Ceiling and Visibility' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2046 1.0 * B E G

Goal. Complete 'Introduction to Distributed Hydrologic Modeling' Module.

Requirement. Perform the module requirements of the 'Introduction to Distributed Hydrologic Modeling' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2047 2.0 * B E G

Goal. Complete 'Understanding the Hydrologic Cycle' Module.

Requirement. Perform the module requirements of the 'Understanding the Hydrologic Cycle' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-809-106-016)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2048 2.0 * B E G

Goal. Complete 'Introduction to Ocean Tides' Module.

Requirement. Perform the module requirements of the 'Introduction to Ocean Tides' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-804-106-006)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2049 2.0 * B E G

Goal. Complete 'Rip Currents: Forecasting' Module.

Requirement. Perform the module requirements of the 'Rip Currents: Forecasting' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-792-106-008)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2050 2.0 * B E G

Goal. Complete 'Introduction to Ocean Currents' Module.

Requirement. Perform the module requirements of the 'Rip Currents: Forecasting' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-804-107-080)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2051 2.0 * B E G

Goal. Complete 'Introduction to the Verification of Hydrologic Forecasts' Module.

Requirement. Perform the module requirements of the 'Introduction to the Verification of Hydrologic Forecasts' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2046, 2047

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2052 2.0 * B E G

Goal. Complete 'Unit Hydrograph Theory' Module.

Requirement. Perform the module requirements of the 'Unit Hydrograph Theory' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-809-106-015).

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2053 1.0 * B E G

Goal. Complete 'Space Weather Basics' Module.

Requirement. Perform the requirements of the 'Space Weather Basics' module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2055 2.0 * B E G

Goal. Complete 'Basics of Visisbile and Infrared Remote Sensing'

Module.

Requirement. Perform the requirements of the 'Basics of Visisbile and Infrared Remote Sensing' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2056 2.0 * B E G

Goal. Complete 'Microwave Remote Sensing: Clouds, Precipitation, and Water Vapor' Module.

Requirement. Perform the requirements of the 'Microwave Remote Sensing: Clouds, Precipitation, and Water Vapor' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2003, 2004, 2055

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2057 10.0 * B E G

Goal. Complete 'MCI 0118K Spelling' course.

Requirement. Perform the course requirements of the 'Spelling' course. (Course Number: 0118K)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute (MCI)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0118K, Spelling.

ACAD-2058 6.0 * B E G

Goal. Complete 'MCI 0119H Punctuation' course.

Requirement. Perform the course requirements of the 'Punctuation' course. (Course Number: 0119H)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0119H, Punctuation.

ACAD-2059 7.0 * B E G

Goal. Complete 'MCI 0120 Basic Grammar and Composition' course.

Requirement. Perform the course requirements of the 'Basic Grammar and Composition' course. (Course Number: 0120)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0120, Basic Grammar and Composition.

ACAD-2060 1.5 * B E G

Goal. Complete 'Operational Use of Wave Watch III' Module.

Requirement. Perform the module requirements of the 'Operational Use of Wave Watch III' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2061 2.0 * B E G

Goal. Complete 'Introduction to Ocean Models' Module.

Requirement. Perform the module requirements of the 'Introduction to Ocean Models' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-871-107-078)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2062 12.0 * B E G

Goal. Complete 'MCI 045D The Logistics/Embarkation Specialist' course.

Requirement. Perform the course requirements of the 'The Logistics/Embarkation Specialist' course. (Course Number: MCI 045D)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 045D, The Logistics/Embarkation Specialist.

ACAD-2063 4.0 * B E G

Goal. Complete 'MCI 2525B Communications Security' course.

Requirement. Perform the course requirements of the 'Communications Security' course. (Course Number: MCI 2525B)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within the MCI 2525B, Communications Security.

ACAD-2070 0.25 * B E G

Goal. Complete 'Topics in Tropical Meteorology' Module.

Requirement. Perform the module requirements of the 'Topics in Tropical Meteorology' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2071 2.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2072 1.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2073 2.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 3: Global Circulation' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 3: Global Circulation' module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071, 2072

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2074 3.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071, 2072, 2073

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2075 2.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture and Precipiation' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture and Precipiation' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071, 2072, 2073, 2074

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2076 0.5 * B E G

Goal. Complete 'Conceptual Models of Tropical Waves' Module.

Requirement. Perform the module requirements of the 'Conceptual Models of Tropical Waves' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2077 2.0 * B E G

Goal. Complete 'Polar Satellite Products for the Operational

Forecaster: Microwave Analysis of Tropical Cyclones' Module.

Requirement. Perform the module requirements of the 'Polar Satellite Products for the Operational Forecaster: Microwave Analysis of Tropical Cyclones' Module from NKO or COMET UCAR. (NKO Course Code: METOC-51T-0602)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2078 1.0 * B E G

Goal. Complete 'Wave Types and Characteristics' Module.

Requirement. Perform the module requirements of the 'Wave Types and Characteristics' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-WTC-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2079 1.0 * B E G

Goal. Complete 'Rip Currents: Nearshore Fundamentals' Module.

Requirement. Perform the module requirements of the 'Rip Currents: Nearshore Fundamentals' Module

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2078

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2080 1.5 * B E G

Goal. Complete 'Shallow-Water Waves' Module.

Requirement. Perform the module requirements of the 'Shallow Water Waves' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-792-106-002)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2081 0.6 * B E G

Goal. Complete 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module.

Requirement. Perform the module requirements of the 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-800-106-004)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2082 7.0 * B E G

Goal. Complete 'Systems Approach to Training (SAT)' course.

Requirement. Perform the course requirements of the 'Systems Approach to Training (SAT)' course. (Course Number: UT01AO)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/MarineNet

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at: https://www.marinenet.usmc.mil/MarineNet/Home.aspx

ACAD-2083 7.0 * B E G

Goal. Complete 'MCI 0131K Correspondence Procedures' course.

Requirement. Perform the course requirements of the 'Correspondence Procedures' course. (Course Number: 0131K)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0131K, Correspondence Procedures.

ACAD-2090 8.0 * B E G

Goal. Complete 'Target Acquisitions Weapons Software (TAWS) Primer' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: S-5B-0001)

Performance Standard. Complete the resident course.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-2091 16.0 * B E G

Goal. Complete 'Advanced Refractive Effects Prediction System (AREPS) Primer' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: S-5B-0012)

Performance Standard. Complete the resident course.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-2100 12.0 0 B E G

Goal. Complete 'MCI 0416B The Marine Corps Publications and Directives System' course.

Requirement. Perform the course requirements of the 'The Marine Corps Publications and Directives System' course. (Course Number: MCI 0416B)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0416B, The Marine Corps Publications and Directives System.

ACAD-2101 9.0 0 B E G

Goal. Complete 'MCI 5803 Physical Security Specialist' course

Requirement. Perform the course requirements of the 'Physical Security Specialist' course. (Course Number: MCI 5803)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within the MCI 5803, Physical Security Specialist.

ACAD-2102 4.0 0 B E G

Goal. Complete 'Introduction to the Total Force Structure Management System (TFSMS)' course.

Requirement. Perform the course requirements of the 'Introduction to the Total Force Structure Management System (TFSMS)' course. (Course Number: TFS01INT02)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/MarineNet

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://www.marinenet.usmc.mil/MarineNet/Home.aspx

ACAD-2103 7.0 0 B E G

Goal. Complete 'Total Force Structure Management System - Basic User Training' course.

Requirement. Perform the course requirements of the 'Total Force Structure Management System - Basic User Training' course. (Course Number: TFS01)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/MarineNet

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://www.marinenet.usmc.mil/MarineNet/Home.aspx

ACAD-2104 1.0 0 B E G

Goal. Complete 'Records Management (Department of the Navy): Advanced Topics' course.

Requirement. Perform the course requirements of the 'Records Management (Department of the Navy): Advanced Topics' course. (Course Number: M02RMT0700)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/MarineNet

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://www.marinenet.usmc.mil/MarineNet/Home.aspx

ACAD-2105 3.5 0 B E G

Goal. Complete 'CLR 101 Introduction to Joint Capabilities Integration and Development System (JCIDS)' course.

Requirement. Perform the course requirements of the 'Introduction to JCIDS' course. (Course Number: CLR 101)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Defense Acquisition University (DAU)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-2106 25.5 0 B E G

Goal. Complete 'ACQ 101 Fundamentals of Systems Acquisition Management' course

Requirement. Perform the requirements of the 'Fundamentals of Systems Acquisition Management' course. (Course Number: ACQ 101)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. All references for the course can be found at: https://learn.dau.mil

ACAD-2107 1.0 0 B E G

Goal. Complete 'Security Policy and Procedures' course.

Requirement. Perform the requirements of the 'Security Policy and Procedures' course. (Course Number: CID 002SP0)

Performance Standard. Complete the course.

Instructor. Web Based/NKO

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for module can be found at: Navy eLearning: https://www.lms.prod.nel.training.navy.mil/Atlas2/faces/page/desktop/DesktopHome.seam?tabId=1&cid=tab_1#

ACAD-2108 1.0 0 B E G

Goal. Complete 'General Admin Naval Messages' course.

Requirement. Perform the requirements of the 'General Admin Naval Messages' course. (Course Number: CID 002GN01)

Performance Standard. Complete the course.

Instructor. Web Based/NKO

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for module can be found at: Navy eLearning: https://www.lms.prod.nel.training.navy.mil/Atlas2/faces/page/desktop/DesktopHome.seam?tabId=1&cid=tab_1#

ACAD-2109 5.0 0 B E G

Goal. Complete 'Department of the Navy, Office of Budget: Fiscal Law

Refresher Training' course.

Requirement. Perform the course requirements of the 'Department of the Navy, Office of Budget: Fiscal Law Refresher Training' course.

Performance Standard. Complete the course.

Instructor. Web-based/Department of the Navy, Office of Budget, Distance Learning

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at: https://fmbweb1.nmci.navy.mil/policy/fiscal_law/index.htm

3.10.4 METEOROLOGICAL SURFACE OBSERVATIONS (MSO) STAGE

3.10.4.1 Purpose. To develop proficiency in observing, recording and disseminating meteorological elements that comprise the surface meteorological reports (observations).

3.10.4.2 General.

Prerequisites. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at observing atmospheric phenomenon, units of measurement, quality control procedures and dissemination of parameters.

Crew Requirements. None

MSO-2200 2.0 * B E G

Goal. State and discuss the elements of a METAR surface observation.

Requirement. State and discuss, in detail, the elements that comprise a METAR surface observation. Discussion will include:

1. Sky condition.
2. Visibility.
3. Weather and obstructions to visibility.
4. Pressure.
5. Temperature.
6. Wind.
7. Remarks/additive data.
8. Local Criteria.

9. Rules governing the observing and recording elements.
10. Conversion or computation (as required).
11. Encoding

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2055, 2056

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 1 - Surface Weather Observations and Reports, September 2005, FCM-H1-2005, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-2201 1.0 * B E G

Goal. State the criteria for a SPECI surface observation.

Requirement. State the criteria that comprise a SPECI surface observation for the following elements:

1. Wind.
2. Visibility.
3. Weather and precipitation.
4. Sky and ceiling.
5. Volcanic eruption.
6. Runway conditions.
7. Aircraft mishap.
8. Miscellaneous
9. Change in level of service.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2055, 2056, 2200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 1 - Surface Weather Observations and Reports, September 2005, FCM-H1-2005, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-2202 2.0 * B E L

Goal. Compute meteorological values.

Requirement. Given the appropriate elements, compute the following values:

1. Pressure altitude.
2. Density altitude.
3. Altimeter.
4. Wet Bulb Globe Temperature Index (WBGTI).
5. Wind chill temperature.
6. Absolute humidity.
7. Relative humidity.
8. Dew point.
9. Crosswind, headwind, and tailwind.
10. Fahrenheit to Celsius.
11. Knots to mph.

Performance Standard. Compute meteorological values without error.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2055, 2056, 2200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)
3. A World of Weather 5th Edition Ch. 1 By: Lee M. Grenci and Jon M. Nese Published: 2010 ISBN: 978-0-7575-9426-7

MSO-2203 1.0 365 B,R,M E L

Goal. Decode surface/ship synoptic observations.

Requirement. Without the aid of reference, decode 10 surface synoptic observations and 10 ship synoptic observations.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2200, 2201

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2_
2. Federal Meteorological Handbook No. 2 - Surface Synoptic Codes, December 1988, FCM-H2-1988, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-2204 2.0 * B E G

Goal. State and discuss the elements of a Terminal Aerodrome Forecast (TAF).

Requirement. State and discuss, in detail, the elements that comprise a TAF. Discussion will include:

1. Message header.
2. Wind group.
3. Visibility group.
4. Weather group.
5. Sky cover group.
6. Non-convective low level wind shear group.
7. Icing group.
8. Turbulence group.
9. Predicted lowest altimeter group.
10. Remarks.
11. Temperature group.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3143.1_, Terminal Aerodrome Forecast (TAF) and the FM51-XII TAF Code
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

MSO-2205 0.5 365 B,R,M E L/S

Goal. Decode a Terminal Aerodrome Forecast (TAF).

Requirement. In accordance with the reference, decode 15 TAFs.

Performance Standard. Complete the requirement by practical

application.

Instructor. BI

Prerequisite. 2000, 2204

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3143.1_, Terminal Aerodrome Forecast (TAF) and the FM51-XII TAF Code
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

MSO-2206 1.0 * B E G

Goal. Define the criteria for setting weather warnings, watches, and advisories.

Requirement. Without the aid of reference, define criteria for setting weather warnings, watches, and advisories.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. OPNAVINST 3140.24_ / Local Destructive Wx Order
2. MCWP 3-35.7
3. Current operations Annex H

3.10.5 UPPER ATMOSPHERIC SENSING (UAS) STAGE

3.10.5.1 Purpose. To develop proficiency sensing and collecting data above the Earth's surface.

3.10.5.2 General.

Prerequisite. 2001

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at the analyzation of upper atmospheric soundings and upper-air observational equipment.

Crew Requirements. None

UAS-2250 1.0 365 B,R,M E L

Goal. Decode upper air messages.

Requirement. Without the aid of reference, decode 5 upper atmospheric soundings and exhibit an understanding of the scales and features of a Skew-T, Log P diagram.

1. Decode upper atmospheric sounding per applicable references.
2. Identify scales and use of scales located on the Skew-T, Log P diagram.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2000, 2001

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Federal Meteorological Handbook No. 3 - Rawinsonde and Pibal Observations, May 1997, FCM-H3-1997, http://www.ofcm.gov/homepage/text/pubs.htm
2. Aerographer's Mate Third Class METOC Training Manual, Chapter 2

UAS-2251 1.0 365 B,R,M E L/S

Goal. Analyze a Skew-T Log P diagram.

Requirement. Utilizing a Skew-T diagram and/or appropriate software and upper air sounding, plot and analyze upper-air data. Perform the following:

1. Obtain upper-air observation data.
2. Plot mandatory levels, significant levels, and significant wind data or import upper-air data into appropriate software.
3. Analyze the following:
   (a) CCL.
   (b) LCL.
   (c) LFC.
   (d) PEA.
   (e) NEA.
   (f) T1.
   (g) T2.
   (h) Forecasted maximum temperature.
   (i) Forecasted minimum temperature.

(j) Freezing level.
(k) Contrails.
(l) Tropopause.
(m) EL
(n) Turbulent areas.
(o) Potential temperature.
(p) Icing types and levels.
(q) Areas of moisture.
(r) D-Values.
(s) Fog dissipation.
(t) Cloud height, types, and coverage.

4. Compute following stability indices (at a minimum).
   (a) Lifted index.
   (b) K index.
   (c) Sweat index.
   (d) Showalter's index.
   (e) Totals totals.

Performance Standard. Complete the requirement by practical application. Within a 60 minute period, analyze a Skew-T Log P diagram.

Instructor. BI

Prerequisite. 2001, 2250

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Federal Meteorological Handbook No. 3 - Rawinsonde and Pibal Observations, May 1997, FCM-H3-1997, http://www.ofcm.gov/homepage/text/pubs.htm
2. Aerographer's Mate Third Class METOC Training Manual, Chapter 2
3. Geophysics Fleet Mission Program Library (GFMPL) Users Manual

UAS-2252 2.0 * B E G

Goal. Identify the components of an upper-air sensor and upper-air sensing equipment.

Requirement. Identify use of the components required for taking an upper air observation.

1. Identify the following components:
   (a) Upper air sensing equipment and antennas.
   (b) Upper air sensor /transmitter.
   (c) Required weight sets if applicable.
2. State the use of the following components:
   (a) Upper air sensing equipment and antennas.
   (b) Upper air sensor /transmitter.
   (c) Required weight sets if applicable.
3. Read and comprehend procedures for conducting upper air observations.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2001

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Operations and Maintenance Manual with Parts List, AN/TMQ-56 Measuring Set, METMF(R) NEXGEN, EM000-CD-OMP-010
2. Federal Meteorological Handbook No. 3 - Rawinsonde and Pibal Observations, May 1997, FCM-H3-1997, http://www.ofcm.gov/homepage/text/pubs.htm

3.10.6 ASTRONOMICAL/TIDAL DATA (ATD) STAGE

3.10.6.1 Purpose. To develop proficiency at deriving astronomical and tidal data.

3.10.6.2 General.

Prerequisite. 2000

Admin Notes. Upon completion of this stage of training, METOC personnel shall be able to compute or retrieve astronomical or tidal data.

Crew Requirements. None

ATD-2300 1.0 * B E G

Goal. Define and state the difference between civil, nautical, and astronomical twilight.

Requirement. Without the aid of reference, define and state the difference between civil, nautical, and astronomical twilight.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ATD-2301 1.0 * B G

Goal. State the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.

Requirement. Without the aid of reference, describe the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2300

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

3.10.7 FAMILIARIZATION (FAM) STAGE

3.10.7.1 Purpose. To familiarize the Marine with aspects of the local area they have been assigned to.

3.10.7.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be knowledgeable of the local area procedures and policies they have been assigned to.

Crew Requirements. None

FAM-2350 2.0 * B E G

Goal. Identify and define local area policies and procedures.

Requirement. Without the aid of reference, define and discuss the listed local area knowledge:

1. Airfield/Location description.

2. SOP procedures.
3. Command support structure.
4. Destructive weather procedures.
5. Security requirements.
6. Watch composition and schedule.
7. Watch procedures.
8. Local forms.
9. Reference and technical library procedures.
10. Local area forecaster handbook.
11. Weather regimes.
12. Local security procedures.
13. Watch routine.
14. METOC equipment.
15. Command structure.
16. Warning criteria/procedures.
17. Quality Assurance Programs.
18. Communication configurations and procedures.
19. Administrative Reports.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Local SOP
2. Forecasters Handbook

3.10.8 EQUIPEMENT (EQPT) STAGE

3.10.8.1 Purpose. To develop proficiency with equipment used in the meteoroligical field.

3.10.8.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in the utilization of equipment within the meteorological community.

Crew Requirements. None

EQPT-2400 3.0 180 B,R,M E L

Goal. Operate handheld meteorological devices.

Requirement. Operate all handheld sensing devices indigenous to the

unit. Conduct sensing of environmental elements utilizing devices like those listed below. Devices may vary from site to site, unit commanders shall identify devices to be evaluated.

1. Wind sensing devices.
2. Pressure sensing devices.
3. Temperature sensing devices.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. PMQ http://meteorologytraining.tpub.com/14269/css/14269_105.htm
2. Kestrel http://www.kestrelmeters.com/

EQPT-2401 2.0 1460 B,R,M E L

Goal. Operate a handheld GPS device.

Requirement. Given a handheld GPS receiver and the references:

1. Describe the purpose and use of the device.
2. Describe the components of the device.
3. Report current location in both latitude/longitude and MGRS coordinates.
4. Fill the device with the appropriate crypto for precision positioning system (PPS) operations.
5. Report current location in both latitude/longitude and MGRS coordinates in PPS operations.

Performance Standard. Complete the requirement items IAW the references. Device was programmed properly, current position was accurate, and device was operated with appropriate crypto fills.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. DAGR Operator’s Pocket Guide.

2. AN/PSN-13A DAGR Computer Based Training.
3. DAGR Technical Manual 11-5820-1172-13.

EQPT-2402 2.0 365 B,R,M E L

Goal. Operate the Meteorological Radar Subsystem (MRS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Establish and coordinate background maps.
2. Establish radar alerts and thresholds.
3. Establish radar product set lists.
4. Retrieve a base reflectivity product.
5. Retireve a base velocity product.
6. Retireve a base spectrum width product.
7. Retrieve a composite reflectivity product.
8. Retrieve a Vertically Integrated Liquid (VIL) product.
9. Retrieve an Echo Top (ET) product.
10. Retrieve an overlay storm relative motion product.
11. Display radar products via the Forecaster Tool Kit (FTK)

Performance Standard. Practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2403 2.0 365 B,R,M E L

Goal. Operate the Meteorological Satellite Subsystem (MSS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Update of Ephemeris Data.
2. Retrieve an infared satellite image.
3. Retrieve a water vapor satellite image.
4. Retrieve a visible satellite image.
5. Post process satellite imagery.
   a. Color enhancement.
   b. Align geopolitical borders.
   c. Archive image.
6. Display archived image.
7. Display satellite image via the Forecaster Tool Kit (FTK).

Performance Standard. Practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2404 2.0 365 B,R,M E L

Goal. Operate the Communications Subsystem (CSS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Setup and configure the Broad Global Area Network.
   a. Retrieve products.
2. Perform radio checks.
   a. PRC 151
   b. PRC 117_
3. Operate the vehicle intercom system?

Performance Standard. Practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2405 2.0 365 B,R,M E L

Goal. Operate the Local Subsystem (LSS).

Requirement. In a simulated or actual deployed environment, retrieve meteorological parameters.

Performance Standard. Practical application IAW the reference. Minor

assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2406 1.0 365 B,R,M E L

Goal. Operate the Remote Subsystem (RSS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Configure observation transmission times.
2. Retrieve meteorological parameters.

Performance Standard. Practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2407 1.0 365 B,R,M E L

Goal. Operate the Upper Air Subsystem (UAS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Prepare sonde for launch.
2. Enter local weather observation.
3. Launch sonde.
4. Ensure receipt of data.

Performance Standard. Practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. 2252

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

3.10.9 APPLIED METEOROLOGICAL SCIENCE (AMS) STAGE

3.10.9.1 Purpose. To introduce the fundamental principles of the atmosphere required to produce mission specific products. Upon completion of this stage of training, METOC personnel shall possess and demonstrate proficiency in meteorological fundamentals

3.10.9.2 General

Prerequisites. 2000, 2001

Admin Notes. None

Crew Requirements. None

AMS-2500 15.0 * B E G

Goal. Describe principles of atmospheric physics.

Requirement. Describe principles of atmospheric physics.:

1. Atmospheric structure.
2. Atmospheric variables.
3. Vectors.
4. Pressure.
5. Temperature and moisture.
6. Fundamentals of atmospheric concepts.
7. Advection.
8. Thermal winds.
9. Thickness values.
10. Heat transfer.
11. Cloud formation and dissipation.
12. Precipitation types.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738 AFWA TN 98-002 (revised Feb. 2012)
6. Meteorology for Scientist and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

AMS-2501 15.0 * B E G

Goal. Describe principles of atmospheric dynamics.

Requirement. Describe principles of atmospheric dynamics:

1. Rotational and circular motion.
2. Atmospheric forces.
3. Divergence/convergence (speed & directional).
4. Vorticity.
5. Jet streams.
6. Atmospheric wave terminology.
7. Vertical motions.
8. Air masses.
9. Frontal systems.
10. Evolution of frontal systems.
11. Synoptic scale systems.
12. Evolution of synoptic scale baroclinic systems.
13. Local modification to large-scale circulations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2003, 2004, 2500

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientests and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
5. Atmospheric Science: An Introductory Survey 2nd Edition Ch. 7 By:

John M. Wallace and Peter V. Hobbs Publication Date: 15 February 2006 ISBN-10: 0-12-732951-X

6. An Introduction to Atmospheric Physics 2nd Edition Ch. 2,4,5 By: David G. Andrews Publication Date: 2010 ISBN: 978-0-521-87220-1
7. Atmosphere, Ocean, and Climate Dynamics: An Introductory Text By: John Marshall and R. Alan Plumb Publication Date: 2008 ISBN 13: 978-0-12-558691-7

AMS-2502 5.0 * B E G

Goal. Describe atmospheric fundamentals.

Requirement. Verbally define and discuss the atmospheric fundamentals listed below during a technical discussion with qualified METOC personnel.

1. Long/short wave trough/ridges.
   (a) Deepening/building/intensifying.
   (b) Filling/weakening.
   (c) Cyclogenesis/frontogenesis.
   (d) Cyclolysis/frontolysis.
2. Pressure systems.
   (a) Baroclinic/barotropic.
3. Frontal systems.
   (a) Active/inactive cold fronts.
   (b) Active/inactive warm fronts.
   (c) Stationary fronts.
   (d) Warm/Cold occlusions.
   (e) Type "A"/"B" occlusions.
   (f) Warm/cold air advection.
   (g) Dry/moist air advection.
4. Jet properties of:
   (a) Polar front jet stream.
   (b) Arctic jet stream.
   (c) Subtropical jet stream.
   (d) Low-level jets.
5. Vorticity.
6. Thickness.
7. Condensation/evaporation/sublimation.
8. Convergence/confluence.
9. Divergence/diffluence.
10. Pressure gradient.
11. Gradient / Geostrophic / Ageostrophic / Cyclostrophic winds.
12. Relative/absolute/specific humidity.
13. Cloud identification/formation.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2003, 2004, 2017, 2018, 2019, 2020, 2026, 2500, 2501

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Meteorology Today 9th Edition Ch. 8-11 By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientests and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
5. Atmospheric Science: An Introductory Survey 2nd Edition Ch. 7-8 By: John M. Wallace and Peter V. Hobbs Publication Date: 15 February 2006 ISBN-10: 0-12-732951-X
6. An Introduction to Atmospheric Physics 2nd Edition Ch. 2,4,5 By: David G. Andrews Publication Date: 2010 ISBN: 978-0-521-87220-1
7. Atmosphere, Ocean, and Climate Dynamics: An Introductory Text By: John Marshall and R. Alan Plumb Publication Date: 2008 ISBN 13: 978-0-12-558691-7

AMS-2503 20.0 * B E L/S

Goal. State the use of graphical METOC products.

Requirement. State the elements of the following graphical products used to assist in the forecast process:

1. Horizontal/vertical weather depiction.
2. Satellite imagery.
3. Radar imagery.
4. Surface chart.
5. Constant pressure charts.
6. Oceanographic charts.
7. Vorticity charts.
8. Thickness charts.
9. SKEW-T LOG P Diagram.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2033, 2055, 2056, 2500, 2501, 2502

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting By: Patrick Santurette and Christo

G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
6. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X

3.10.10 METOC DATA ANALYSIS (MDA) STAGE

3.10.10.1 Purpose. To develop proficiency in the analysis of basic atmospheric features on surface and upper-level atmospheric data.

3.10.10.2 General

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at analyzing and interpreting surface and atmospheric phenomena.

Crew Requirements. None

MDA-2550 2.0 * B E L/S

Goal. Initialize and verify meteorological model output.

Requirement. Initialize and verify meteorological model output and identify strengths and weaknesses of global, regional, and mesoscale numerical models.

Performance Standard. Complete the requirement by practical application followed by guided discussion.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. An Introduction to Atmospheric Physics 2nd Edition Ch. 1,9 By: David G. Andrews Publication Date: 2010 ISBN: 978-0-521-87220-1
4. Numerical Weather and Climate Prediction By: Thomas Tomkins Warner Publication Date: 2011 ISBN: 978-0-521-51389-0
5. Atmospheric Modeling, Data Assimilation and Predictability By: Eugenia Kalnay Publication Date: 2010 ISBN: 978-0-521-79179-3
6. Fundamentals of Atmospheric Modeling 2nd Edition By: Mark Z. Jacobson Publication Date: 2005 ISBN: 978-0-521-83970-9
7. Meteorology for Scientests and Engineers 2nd Edition Ch. 14 By: Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MDA-2551 1.0 365 B,R,M E L

Goal. Analyze and interpret a thickness chart or thickness model.

Requirement. Given a SFC-500mb thickness chart or thickness model, analyze and depict the following features within 30 mins and provide meteorological reasoning for placement:

1. Warm/cold air advection.
2. High and low pressure centers.
3. Fronts.
4. 540 Dam line.
5. Troughs.
6. Label air masses.
7. Jet stream.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

MDA-2552 1.0 365 B,R,M E L

Goal. Analyze and interpret a vorticity chart or vorticity model.

Requirement. Given a 500mb vorticity chart or vorticity model, analyze and depict the following features within 30 mins and provide meteorological reasoning for placement:

1. Positive/negative vorticity advection areas.
2. Shear lobes.
3. Advection lobes.
4. Jet stream.
5. X-N distribution.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

MDA-2553 6.0 365 B,R,M E L

Goal. Analyze and interpret upper atmospheric weather charts.

Requirement. Provided standard level chart set (850mb, 700mb, 500mb, 300mb, and 200mb) analyze the mandatory level constant pressure charts for features listed below (as applicable) within 6 hours and provide meteorological reasoning for placement:

1. Isoheights.
2. Isotherms.
3. Areas of significant moisture.
4. Major short wave axis, troughs and ridges.
5. Minor short wave axis, troughs and ridges.
6. High and low height centers.
7. Warm and cold pockets.
8. Upper fronts.
9. Jet stream features.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis By: Dusan Djuric Date: 2 February 1994 ISBN-10: 0135011493
7. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

MDA-2554 2.0 365 B,R,M E L

Goal. Analyze and interpret a surface weather chart.

Requirement. Given a surface chart, depict the following features within 45 mins and provide meteorological reasoning for placement:

1. Isobars.
2. High and low pressure centers.
3. Fronts.
4. Highlight weather symbols.
5. Troughs.
6. Label air masses.
7. Dry lines.
8. Isallobars.
9. Isodrosotherms.
10. Identify outflow boundaries.
11. Nephanalysis.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual

5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis By: Dusan Djuric Date: 2 February 1994 ISBN-10: 0135011493
7. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

MDA-2555 2.0 365 B,R,M E L/S

Goal. Analyze meteorological features on satellite imagery.

Requirement. Correctly analyze synoptic and/or mesoscale meteorological features on IR, Visual, Water Vapor, and Multi-spectral satellite imagery (SSMI) and provide meteorological reasoning for placement::

1. Areas of high pressure.
2. Areas of low pressure.
3. Frontal boundaries.
4. Thunderstorms.
5. Basic and significant cloud elements.
6. Jet streams.
7. Land/terrain features.
8. Non-cloud features (i.e. smoke, dust).
9. Significant weather phenomena.
10. Tropical features.
    (a) Tropical cyclones.
    (b) Tropical upper tropospheric troughs.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. An Introduction to Satellite Image Interpretation By: Eric D. Conway and The Maryland Space Grant Corporation Published 1997 ISBN: 0-8018-5576-4
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Images in Weather Forecasting: A Practical Guide for Interpreting Satellite and Radar Imagery By: M. J. Bader, G. S. Forbes, J. R.

Grant, R. B. E. Lilley, A. J. Waters Publication Date: 10 July 1997 ISBN: 9780521629157

MDA-2556 2.0 365 B,R,M E L

Goal. Analyze meteorological features on radar products.

Requirement. Utilizing live or archived base radar products, identify the following features:

1. Base reflectivity:
   (a) Precipitation.
   (b) Thunderstorms.
   (c) Outflow boundaries.
2. Base velocity:
   (a) Convergence and divergence.
   (b) Cyclonic and anti-cyclonic rotation.
3. Base spectrum width products:
   (a) Significant motion.
   (b) Turbulence.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2022, 2023, 2024, 2025, 2027, 2028, 2054, 2500, 2501, 2502, 2503

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Doppler Radar Meteorological Observations Part D By: Office Of The Federal Coordinator For Meteorological Services (OFCM) Publication Date: February 2006
6. Doppler Radar Meteorological Observations Part B By: Office Of The Federal Coordinator For Meteorological Services (OFCM) Publication Date: December 2005

3.10.11 METEOROLOGICAL FORECASTING (METF) STAGE

3.10.11.1 Purpose. To acheive proficiency in meteorological forecasting and mission specific equipment, elements and products.

3.10.11.2 General

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in meteorological forecasting and mission specific support requirements.

Crew Requirements. None

METF-2600 2.0 * B E L/S

Goal. Forecast macro/synoptic scale features.

Requirement. Given a chart set, forecast intensity and movement of surface and upper-level features listed for the following and provide sound meteoroligical reasoning:

1. Major short wave troughs/ridges.
2. High and low pressure system(s).
3. Moisture.
4. Frontal systems.
5. Weather elements.
6. Long wave patterns.
7. Jet streams.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3

METF-2601 10.0 365 B,R,M E G

Goal. Develop synoptic scale forecast using prognosis techniques.

Requirement. Analyze centrally prepared products, apply academic principles, and forecast synoptic scale features by completing the listed items:

1. Initialize model data.
2. Analyze or re-analyze:
   (a) Surface chart.
   (b) Thickness chart.
   (c) Vorticity.
   (d) Standard Upper Air chart set.
   (e) Satellite imagery.
   (f) Radar imagery.
3. Develop forecasted intensity and location of weather features.
4. Discuss meteorological reasoning for forecasted elements.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2019, 2020, 2055, 2056, 2551, 2552, 2553, 2554, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
8. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

METF-2602 2.0 * B E G/S

Goal. Forecast local area (mesoscale/microscale) meteorological elements and phenomenon.

Requirement. Utilizing available resources assess and forecast meteorological elements. Prepare a local area forecast for a 96-hour period. At a minimum, forecast for the following:

1. Cloud types, height and coverage.
2. Precipitation types, intensity and duration.
3. Surface visibility.
4. Weather and obstruction(s) to visibility.
5. Maximum/Minimum temperatures.
6. Wind Speed, Direction, and character.
7. Icing type, height, and intensity.

8. Turbulence type, height, and intensity.
9. Atmospheric pressure.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X

METF-2603 1.0 * B E L/S

Goal. Forecast severe weather.

Requirement. Given METOC data and a designated Area Of Responsibility (AOR), analyze and forecast for the severe weather elements listed and provide meteorological reasoning for each:

1. Convective phenomena.
2. Non-convective phenomena.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2022, 2023, 2024, 2025, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting Handbook Ch. 9 By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
6. Meteorology for Scientests and Engineers 2nd Edition Ch. 15 By: Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
7. Atmosphere, Ocean, and Climate Dynamics: An Introductory Text By: John Marshall and R. Alan Plumb Publication Date: 2008 ISBN 13: 978-0-12-558691-7

3.10.12 METOC PRODUCT BRIEFING (MPB) STAGE

3.10.12.1 Purpose. To develop proficiency in the techniques and tactics used to verbally present current and future states of the atmosphere. Upon completion of this stage of training, METOC personnel shall be competent at conducting METOC briefings in support of mission requirements.

3.10.12.2 General.

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MPB-2650	3.0	*	B,R	E	L

Goal. Brief synoptic chart set.

Requirement. Utilizing an analyzed chart set or model charts, brief meteorological features from the following products:

1. Surface chart.
2. Constant pressure charts.
3. Support charts:
   (a) Satellite Imagery.
   (b) Vorticity.
   (c) 1000-500mb Thickness.

Performance Standard. Practical application. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2600, 2601, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. The Art of Public Speaking 11th Edition By: Stephen E. Lucas Publication Date: 2011 ISBN13: 978-0073406732

MPB-2651 3.5 365 B,R,M E L

Goal. Demonstrate proficiency in completing a flight weather briefing (DD 175-1).

Requirement. With the aid of reference, complete 10 DD-175-1's with the following minimum accuracy requirements:

1. Sky conditions (within 500 feet of actual arrival conditions).
2. Visibility (within 1 mile of the actual arrival conditions).
3. Type and character of precipitation or obstruction to visibility.
4. Wind direction (within 30 degrees if wind speed greater than six knots of actual arrival conditions).
5. Wind speed (within 5 knots of actual conditions).
6. Altimeter setting (within 0.02 inches of mercury of actual arrival conditions).

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Flight Weather Briefing Manual, NAVMETOCCOMINST 3014._14
2. NATOPS General Flight and Operating Instructions, OPNAV Instruction 3710.7_
3. Terminal Aerodrome Forecast (TAF) Code, NAVMETOCCOMINST 3143.1_

3.10.13 COMMUNICATIONS (COMM) STAGE

3.10.13.1 Purpose. To become proficient in the communications assets available to the METOC Marine.

3.10.13.2 General.

Prerequisites. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in the utilization of communications assets and COMSEC procedures.

Crew Requirements. None

COMM-2700 5.0 0 B E G

Goal. Understand the fundamentals of Communications.

Requirement. Given the references:

1. Discuss the following voice/electrical transmission communications methods used by your command:
   a. Secure communications
   b. Local Area Network (LAN)/Internet
   c. Message traffic
   d. International Marine Satellite (INMARSAT)
   e. Broadband Global Area Network (BGAN)
   f. Electronic mail (e-mail)
   g. Facsimile equipment
2. Discuss the following terms as it relates to the preparation of naval messages:
   a. Precedence:
      i. Routine (R)
      ii. Priority (P)
      iii. Immediate (O)
      iv. Flash (Z)
      v. Administrative messages
      vi. Operational messages
   b. Plain Language Address (PLA)
   c. Message addressing
   d. Classification
   e. SSIC
   f. Subject
   g. Reference lines
   h. Addressees (action and info)
   i. NOTAL
   j. Readdressal
   k. DECL
   l. DTG
   m. MINIMIZE
3. Discuss the various forms of written communication used by your command.
4. Discuss contingency procedures for obtaining information when normal methods are not available.
5. Discuss the effects of Emission Control (EMCON) and MINIMIZE on your local communication procedures.

Performance Standard. Without the aid of reference, discuss or explain the requirement. Minor errors self-corrected by the trainee are permitted. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. MCI 2525B

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NTP-3 (J), Naval Telecommunications Procedure, Telecommunications User's Manual
2. Local Directives and Standard Operating Procedures (SOP)

COMM-2701 8.0 365 B,R,M E 1 HF man-pack radio L

Goal. Operate HF man-pack communications equipment.

Requirement. Given a HF man-pack radio and the references:

1. Describe the purpose and use of an HF man-pack radio.
2. Describe the capabilities and limitations of the radio.
3. Set up radio with applicable SL3.
4. Construct a field-expedient antenna.
5. Program radio and establish secure/non-secure HF communications.
6. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communications equipment and field expedient antenna was set up and programmed accurately and a radio check was performed without error.

Instructor. BI

Prerequisite. MCI 0621 2700

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Radio Operator Manual.
2. Harris Premier website computer-based training.
3. JSC-HDBK-98-091, Joint Spectrum Center Field Antenna Handbook

COMM-2702 2.0 365 B,R,M E 1 intra-team radio L

Goal. Operate intra-team communications equipment.

Requirement. Given an intra-team radio and the references:

1. Describe the purpose and use of an intra-team radio.
2. Describe the capabilities and limitations of the radio.

3. Set up radio with applicable SL3 gear.
4. Program radio and establish secure/non-secure intra-team communications.
5. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communication equipment was set up and programmed accurately and a radio check was performed without error.

Instructor. BI

Prerequisite. 2700

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Harris AN/PRC-152 Multiband Handheld Radio Operation Manual.
2. Thales AN/PRC-148 MBITR Operation and Maintenance Instructions.

COMM-2703 4.0 365 B,R,M E 1 UHF/VHF/SATCOM L

Goal. Operate UHF/VHF/SATCOM man-pack communications equipment.

Requirement. Given an UHF/VHF/SATCOM man-pack radio and the references:

1. Describe the purpose and use of an UHF/VHF/SATCOM man-pack radio.
2. Describe the capabilities and limitations of the man-pack radio.
3. Set up radio with applicable SL3
4. Program radio and establish secure/non-secure UHF/VHF/SATCOM communications.
5. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communication equipment was set up and programmed accurately and a radio check was performed without error.

Instructor. BI

Prerequisite. 2700

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Radio Operator’s Manual.
2. Harris Premier website computer-based training.

COMM-2704 2.0 * B,R E G

Goal. Describe proper handling and storage of classified materials.

Requirement. Given the references:

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 (CCI).

Performance Standard. State the above requirement items without error.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. SECNAVINST 5510.36.
2. EKMS-1.
3. MCO P5510.18.
4. Unit EKMS SOP.

COMM-2705 2.0 * B,R E G

Goal. Plan physical security for classified areas.

Requirement. Given a scenario and references, plan personnel and equipment security procedures.

1. Create guard schedule.
2. Single entry control point.
3. Verify personnel on access roster.
4. Triple-strand concertina wire.
5. Entry points of communication lines.
6. Submit a physical security diagram.

Performance Standard. Develop a plan and provide a diagram for requirement items. Instructor will validate that the plan supports the scenario.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P5530.14.

COMM-2706 2.0 * B,R E G

Goal. Extract key material information from EKMS callout.

Requirement. Given an EKMS COMSEC callout and references:

1. State the purpose of the EKMS COMSEC callout.
2. Identify the four main pieces of key information:
   (a) Short Title.
   (b) Edition.
   (c) Segment.
   (d) Classification.
   (e) Super-session date.

Performance Standard. With local SOP and EKMS COMSEC callout, state the purpose of the EKMS COMSEC callout and identify the key information on the callout.

Instructor. BI

Prerequisite. 2704

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EKMS-1A.
2. COMSEC callout.

COMM-2707 2.0 365 B,R,M E 1 SKL/1 tactical radio L

Goal. Operate a common fill device (CFD).

Requirement. Given a CFD, a tactical radio, and the references:

1. Describe the purpose and use of a CFD.
2. Identify the components of the CFD.
3. Transfer an encryption key to a tactical radio.

Performance Standard. Complete the requirement items IAW the references. Accurately transmit the encryption key and successfully conduct a secure radio check without error.

Instructor. BI

Prerequisite. 2704, 2705, 2706

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable equipment operators manual.

3.10.14 METOC DOCTRINE (MDN)STAGE

3.10.14.1 Purpose. To demonstrate familiarity with the Marine Corps METOC support architecture, missions and local operating procedures.

3.10.14.2 General.

Prerequisites. None

Admin Notes. The following notes apply to this stage of training:

(1) All personnel shall be assigned this stage of training upon completion of the Core Skill Introduction phase and prior to assignment to any other stage.

(2) Academic training syllabus shall be developed and approved by the TMSG METOC officer prior to implementation. Checklists contained within this Manual are provided to ensure comprehensive and cohesive training within the METOC community. Local mission and operating procedures will dictate the academic training in support of the events. Local mission and operating procedures will dictate academic training required to support events. Local METOC officers and/or qualified METOC personnel shall review academic POIs for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

Crew Requirements. None

MDN-2750 3.0 * B E G

Goal. Demonstrate an understanding of METOC's role in the Marine Corps Planning Process (MCPP).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Discuss METOC's role in the Marine Corps Planning Process (MCPP).
2. Discuss METOC's role in deliberate planning.
3. Discuss METOC's role in Rapid Response Planning Process (R2P2).
4. Discuss METOC's role in the Operational Planning Teams (OPT).
5. Discuss METOC's role in Intelligence Preparation of the Operational Environment (IPOE).

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCDP 1
2. MCDP 1-0
3. MCDP 1-2
4. MCDP 5
5. MCWP 3-40.1
6. MCWP 5-1
7. MCDP 6
8. FM 2-01.3/MCRP 2-3A
9. MSTP Pamphlet 5-0.2
10. MSTP Pamphlet 2-0.1

MDN-2751 1.0 0 B E G

Goal. Describe US Marine Corps' (USMC) METOC doctrine, organization, core capabilities and operations.

Requirement. Given a period of instruction, pass a closed book examination of the following learning objectives:

1. Explain the USMC METOC Doctrine and Operational Concept.
2. Identify the METOC Organization.
3. Identify USMC METOC capabilities.
4. Describe METOC Integration in USMC operations.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. MAWTS-1, "METOC Support to the MAGTF" class
3. Joint METOC Officer's Course, "Lesson 4.4: US Marine Corps METOC Capabilities" lecture

3.10.15 ADMINISTRATION (ADM) STAGE

3.10.15.1 Purpose. To develop proficiency in the administrative tasks required to direct METOC support operations. Upon completion of this stage of training, a METOC Officer shall be competent in conducting all administrative duties in support of METOC operations.

3.10.15.2 General.

Prerequisites. None

Admin Notes. None

Crew Requirements. None

ADM-2800 1.0 0 B E G

Goal. Draft a response to a Marine Corps Action Tracking System (MCATS) Task Workflow.

Requirement. Given a MCATS Task Workflow scenario requiring a METOC subject matter expert (SME) response and references, provide the following:

1. Identify the MCATS Points of Contact within the cperational chain of command for your agency/command.
2. List examples of MCATS Task Workflows that would require a METOC subject matter expert (SME) response.
3. Generate a response to the MCATS Task Workflow scenario.

Performance Standard. Practical application. Small conceptual errors are allowable, and should be corrected by the instructor; however, the response should contain no factual errors.

Instructor. BI

Prerequisite. 2057, 2058, 2059, 2083

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. "MCATS_Training_Slides" course can be found at: https://hqmcats.hqmc.usmc.mil/help/MCATS_Training_Slides.ppt
2. All additional references can be found at: https://hqmcats.hqmc.usmc.mil/

3. Unit/Local Standard Operating Procedure (SOP)

ADM-2801 2.0 0 B E G

Goal. Demonstrate an understanding of the Total Force Structure Management System (TFSMS).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, when provided access to TFSMS and a Table of Organization and Equipment, perform the following:

1. Identify and explain the following:
   a. Table of Organization (T/O)
   b. Table of Equipment (T/E)
   c. Mission statement
   d. Billet Organization
   e. Equipment Organization
   f. Marine Corps Manpower Process
   g. Authorized Strength Report (ASR)
   h. Enlisted Staffing Goal Model (ESGM)
   i. Enlisted Personnel Availability Digest (EPAD)
2. State the reason for submitting a Table of Organization andEquipment Change Request (T/OECR).
3. View and interpret information on structure and equipment within TFSMS, to include:
   a. Access unit TO/E
   b. Access standard reports
   c. Create a custom structure and equipment report.
4. Demonstrate how to manipulate structure and equipment data using electronic TOECRs.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2102, 2103

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 1300.31_
2. MCO 5311.1_
3. MCO 5320.12_
4. TFSMS website: https://tfsms.mccdc.usmc.mil

ADM-2802 8.0 0 E G

Goal. Draft an annual budget and mid-/end of year review submissions

for the METOC section.

Requirement. Given consumable history, anticipated METOC shortfalls, and proposed funding allocations for a METOC section/division to create a METOC budget; complete the following:

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

Performance Standard. Practical application. Instructor will discuss each item with the trainee. The submissions must support the TEEP and address shortfalls.

Instructor. BI

Prerequisite. 2109, 2853

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4400.150_
2. MCO P7100.8_
3. MCO 7300.21_
4. NAVMC 2664
5. Local Directives and Standard Operating Procedures (SOP)

ADM-2803 3.0 0 B E G

Goal. Describe the Joint Capabilities Integration and Development System (JCIDS) as it relates to Marine Corps METOC.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the responsibilities of the following billets:
   a. OPNAV N2N6E
   b. HQMC APX
   c. MARCORSYSCOM
   d. MCCDC CD&I
2. Explain the path of an operational METOC requirement.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2105

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Capabilities-Based Assessment (CBA) User's Guide, Version 3
2. CJCSI 3170.01 Series
3. CJCSI 3810.01_
4. CJCSI 5123.01 Series
5. CJCSI 6212.01 Series
6. Defense Acquisition Portal, Joint Capabilities Integration and Development System
7. DoD Directive 5000.01
8. DoD Instruction 5000.02 System
9. Family of Joint Operations Concepts
10. Glossary of Defense Acquisition Acronyms and Terms
11. Manual for the Operation of the Joint Capabilities Integration and Development System (JCIDS Manual)
12. Title 10, United States Code, Chapter 5, Section 153, Chairman: Functions
13. Title 10, United States Code, Chapter 7, Section 181, Joint Requirements Oversight Council
14. JCIDS Manual
15. SECNAVINST 5430.79_
16. OPNAVINST 5430.56
17. OPNAVINST 5430.343
18. OPNAV and HQMC and Oceanography (METOC) Equipment for the U.S. Marine Corps (USMC)" dtd 26 Nov 13

ADM-2804 16.0 0 B E G

Goal. Draft a Table of Organization and Equipment (TO&E) Change Request (TOE&CR).

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 TO&ECR form, NAVMC 11355.
4. Identify compensation for T/O changes when possible.
5. Explain the justification for the change request on the form.
6. Provide a copy of the NAVMC 11355 to the instructor for review and validation.

Performance Standard. Practical application. Small conceptual errors are allowable, and should be corrected by the instructor; however, the response should contain no factual errors.

Instructor. BI

Prerequisite. 2102, 2103, 2801

Ordnance. None

Range. None

External Syllabus Support. None

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

ADM-2805 3.0 0 B E G

Goal. Describe the Marine Corps Readiness Inspections and Assessments program.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of the Marine Corps Readiness Inspections and Assessments program.
2. State the purpose of the Functional Area checklist.
3. Identify the Functional Area Checklist number and sponsor for the Meteorology and Oceanography.
4. State the process for conducting an inspection.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 5040.6_
2. NAVMC DIR 5040.6H
3. Inspector General of the Marine Corps website: http://www.hqmc.marines.mil/igmc/Resources/FunctionalAreaChecklists.aspx

ADM-2806 1.0 0 B E G

Goal. Describe the Marine Corps Force Development System (MCFDS)/Expeditionary Force Development System (EFDS).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of the Marine Corps Urgent Needs Process (MCUNP).
2. State the purpose of the Urgent-Universal Needs Statement (U-UNS).
3. State the purpose of the Deliberate-UNS (D-UNS).

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2105, 2106

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3900.15_
2. MCO 3900.17_
3. Deliberate UNS Form available at: http://www.mccdc.marines.mil/

ADM-2807 1.0 0 B E G

Goal. Define the Fleet Assistance Program (FAP).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of the FAP agreement.
2. State the capabilities and limitations of the FAP agreement.
3. States the catagories of the FAP agreement.
4. State the elements of the TimeShare agreement.
5. State the purpose of METOC participation in the FAP.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 1000.8
2. MCWP 3-35.7
3. Local FAP agreement

ADM-2808 16.0 * B E L/S

Goal. Draft a Universal Needs Statement (UNS).

Requirement. Given a scenario, submission forms, and applicable references:

1. Draft a Deliberate UNS (D-UNS), to include:
   a. Capability Gap/Shortfall
   b. Proposed Solution(s)
   c. Concept of Employment
   d. Requested Quantity or Capacity
   e. Estimates of Supportability
      i. Doctrinal Requirements
      ii. Organizational Requirements
      iii. Training Limitations
      iv. Materiel Supportability
      v. Personnel Supportability
      vi. Facilities Requirements
   f. Related Needs Statements
   g. Gap Identified by Other Services
   h. Lessons Learned
2. Draft an Urgent UNS (U-UNS), to include:
   a. Capability Gap/Shortfall
   b. Proposed Solution(s)
   c. Justification of Urgency
   d. Concept of Employment
   e. Requested Quantity or Capacity
   f. Estimates of Supportability
      i. Doctrinal Requirements
      ii. Organizational Requirements
      iii. Training Limitations
      iv. Materiel Supportability
      v. Personnel Supportability
      vi. Facilities Requirements
   g. Related Needs Statements
   h. Gap Identified by Other Services
   i. Lessons Learned
3. Demonstrate the process for submission

Performance Standard. Practical application. Small conceptual errors are allowable, and should be corrected by the instructor; however, the draft should contain no factual errors. (Practical Application)

Instructor. BI

Prerequisite. 2105, 2106, 2806

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3900.15_

2. MCO 3900.17_
3. Deliberate UNS Form available at: http://www.mccdc.marines.mil/

ADM-2809 16.0 * B E G

Goal. Draft an Urgent Operational Needs (UONs).

Requirement. Given a scenario, submission forms, and applicable references:

1. Determine the UONs type: joint urgent operational needs (JUONs) or joint emergent operational needs (JEONs)
2. Draft the JUONs or JEONs.
3. Demonstrate the process for submission.

Performance Standard. Practical application. Small conceptual errors are allowable, and should be corrected by the instructor; however, the response should contain no factual errors.

Instructor. BI

Prerequisite. 2105, 2106, 2806, 2808

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSI 3170.01_
2. DoDD 5000.71

ADM-2810 1.0 * B E G

Goal. Describe the Marine Corps Action Tracking System (MCATS).

Requirement. Conduct a self-paced reading of the reference, then without the aid of reference, perform the following:

1. Describe the login requirements for MCATS.
2. Describe the purpose of MCATS.
3. Explain the types of MCATS Task Workflows.
4. Identify MCATS features.
5. Discuss the MCATS Business Rules.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. "MCATS_Training_Slides" course can be found at:
https://hqmcats.hqmc.usmc.mil/help/MCATS_Training_Slides.ppt
2. All additional references can be found at:
https://hqmcats.hqmc.usmc.mil/

3.10.16 MANAGEMENT (MGT) STAGE

3.10.16.1 Purpose. To become proficient in the basic management skills required to direct METOC support operations.

3.10.16.2 General.

Prerequisites. None

Admin Notes. Upon completion of this stage of training, the METOC officer shall be proficient in managing a METOC section.

Crew Requirements. None

MGT-2850 4.0 0 B E G

Goal. Identify the embarkation requirements for the METOC section.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Identify Hazardous Material requirements.
2. Identify Physical Security requirements.
3. Identify Material Handling Equipment (MHE) requirements.
4. Identify equipment specific transportation requirements.
5. Identify MAGTF Deployment Support System II (MDSS II) elements.
6. Identify support material requirements.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2062, 2101

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 4030.33
2. MCRP 4-11
3. Local Directives and Standard Operating Procedures (SOP)

MGT-2851 1.0 0 B E G

Goal. State the key elements of an OPORDER and discuss how they relate to METOC support.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference and provided a contingency plan, perform the following:

1. Identify and discuss the four levels of planning detail.
2. Identify the purpose and major sections of the OPORD.
3. State the purpose and content of the Base Order.
4. State the purpose and content of the Annex A.
5. State the purpose and content of the Annex B.
6. State the purpose and content of the Annex H.
7. State the purpose and content of the Annex K.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 1-02
2. JP 3-0
3. JP 5-0
4. JP 5-00.1
5. CJCSM 3130.03
6. MCDP 1
7. MCDP 1-0
8. MCDP 1-2
9. MCDP 5
10. MCWP 3-40.1
11. MCWP 5-1
12. MCDP 6
13. FM 2-01.3/MCRP 2-3A
14. MSTP Pamphlet 5-0.2
15. MSTP Pamphlet 2-0.1
16. ADP 5-0
17. ADP 6-0
18. ADRP 5-0

19. ATTP 5-0.1
20. "MAGTF Staff Training Program (MSTP) Classes" on MCPP can be found at: https://www.mstp.usmc.mil/classes/default.aspx
21. '8653AZ, Marine Corps Planning Process' as part of '8650AZ, Expeditionary Warfare School Distance Education Program.'

MGT-2852 2.0 0 B E G

Goal. State the METOC products and services required for operational decision-making and joint operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of the Joint Operational Area Forecast (JOAF).
2. Explain the typical process for developing the JOAF.
3. Explain the format and environmental parameters that are included in the JOAF.
4. Discuss other METOC products and services required for operational decision-making.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 3-59
2. CJCSI 3810.01C
3. DoD CIO Memo, 9 May 2003, "DoD Net-Centric Data Strategy"
4. DoDD 8320.2
5. DoD Implementation Guide 8320.2
6. Joint METOC Officer's Course, "Lesson 9.2: Joint METOC Management - Overview of Joint METOC Products" lecture

MGT-2853 8.0 0 B E G

Goal. Describe the Fiscal/Budget process within the Marine Corps as it relates to the METOC section.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Discuss the funds flow process within the Marine Corps.
2. Discuss the types of funds within the Marine Corps.
3. Discuss the purpose of the mid-year review.

4. Identify the submission requirements for the mid-year review.
5. Discuss the purpose of the end-of-year review.
6. Identify the submission requirements for the end-of-year review
7. Discuss the local procedures for budget submission and reviews.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2109

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P4400.150_
2. MCO P7100.8_
3. MCO 7300.21_
4. NAVMC 2664
5. Local Directives and Standard Operating Procedures (SOP)

MGT-2854 2.0 0 B E G

Goal. State the purpose of the Service and Joint Task Lists.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of Service and Joint Task Lists and relevance to joint METOC.
2. Describe the Universal Joint Task List (UJTL).
3. Explain the importance of the UJTL and Joint Training System (JTS).
4. Review the METOC portions of the UJTL.
5. Describe the Joint Mission-Essential Task List (JMETL).

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. CJCSI 3500.02A
2. CJCSM 3500.04F
3. DODD 7730.65
4. JTF HQ Master Training Guide
5. JCAMS: http://jcams.penbaymedia.com/ (Contains JCA and linkages to UJTLs.)
6. JDEIS: https://jdeis.js.mil/jdeis/index.jsp?pindex=0 (Contains list of every UJTL and measure; also contains links to joint doctrine, DOD/CJCS Directives, and other joint references.)
7. Joint METOC Officer's Course, "Lesson 9.3: Joint METOC Management - Joint Task Lists" lecture

MGT-2855 2.0 0 B E G

Goal. State management techniques of METOC resources.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Describe the joint and Service processes to identify, validate, and fill joint force METOC requirements (personnel, equipment, or capabilities).
2. Explain the standard process of the Time Phased Force Deployment Data (TPFDD).
3. Describe the joint and Service specific processes to establish, validate, and fill new requirements on the joint manning document (JMD).
4. Describe the Individual Augmentation (IA) process.
5. Describe the request for forces (RFF) process.
6. Describe the Joint Urgent Operation Need (JUON) process.
7. Explain other means to manage METOC resources.
8. Describe the processes to repair/replace damaged/missing METOC equipment providing support to joint operations.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. NEEDS ALL PREREQS

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 1-02
2. JP 3-59
3. JP 5-0
4. CJCSI 1301.01C
5. CJCSM 3122.02
6. (JOPES) Volume III
7. CJCSI 3470.01

8. AFI 63-114
9. Global Force Management Implementation Guidance (GFMIG)
10. Global Force Management Allocation Plan (GFMAP)
11. Joint METOC Officer's Course, "Lesson 9.4: Joint METOC Management - Resources" lecture

MGT-2856 2.0 0 B E G

Goal. State the purpose of a METOC sensing strategy.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of a sensing strategy and collection plan.
2. Explain the development and implementation of a collection plan using the existing sensing strategy.
3. Manage resources to affect the collection plan.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. NEEDS ALL PREREQS

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 2-01
2. JP 3-59
3. CJCSI 3810.01C
4. Joint METOC Officer's Course, "Lesson 9.5: Joint METOC Management - METOC Sensing Strategy/Collection Plan" lecture

MGT-2857 2.0 0 B E G

Goal. State the purpose of the quality control program.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of quality control (QC).
2. Discuss procedures/processes to determine the effectiveness of METOC support to operations.
3. Discuss mechanisms to obtain feedback on the effectiveness of METOC support to operations.
4. Discuss lessons learned and after action reports.

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

errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. NEEDS ALL PREREQS

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSI 3150.25E
2. AFI 15-114
3. NAVY OPNAV 3500.37C
4. Joint METOC Officer's Course, "Lesson 9.6: Joint METOC Management - Quality Control (QC)" lecture

3.10.17 LITTORAL FORECASTING/ANALYSIS (LFA) STAGE

3.10.17.1 Purpose. . To acquire proficiency in collecting, analyzing and forecasting oceanographic and littoral parameters.

3.10.17.2 General.

Prerequisites. 2000, 2003, 2004

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at forecasting and analyzing oceanographic and littoral parameters.

Crew Requirements. None

LFA-2900 5.0 * B E G

Goal. State the elements of a surf observation.

Requirement. Without the aid of reference, define and/or explain the following:

1. Significant breaker height.
2. Maximum breaker height.
3. Breaker period.
4. Breaker types.
5. Angle of breaker relative to beach.
6. Littoral current.
7. Modified surf index.
8. Impact of wind direction in surf zone.
9. Beach profile data.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2003, 2004, 3013, 3014, 3015, 3016, 3017, 3018,

3019, 3020, 3021, 3022, 3023, 3100, 3151

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Joint Surf Manual COMNAVSURFPAC/LANT 3840.1_.
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

3.10.18 METOC IMPACT ASSESSMENT (MIA) STAGE

3.10.18.1 Purpose. To acquire proficiency in the processes and products that assist in providing assessment of atmospheric conditions to mission specific support requirements.

3.10.18.2 General.

Prerequisites. None

Admin Notes. None

Crew Requirements. None

MIA-2950 3.0 * B E G

Goal. State the physical METOC effect on the land domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the land domain.
2. State how the above effects impact land component operations.
3. Identify METOC thresholds associated with mission/operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 3-59
2. U.S. Joint Forces Command, Joint Meteorology and Oceanography

(METOC) Handbook (JMH) (2011)
3. ENMOD Treaty (5 Oct 78)
4. CJCSI 3810.01C
5. AR 115-10/AFI 15-157 (IP)
6. FM 34-81-1 Battlefield Weather Effects 23 Dec 92 (rescinded) Replaced with Integrated Weather Effects Decision Aid (IWEDA).
7. Joint METOC Officer's Course, "Lesson 7.1: METOC Impacts on Operations – Land Domain" lecture
8. MCWP 3-35.7

MIA-2951 1.0 * B E G

Goal. State the physical METOC effect on the maritime domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the maritime domain.
2. State how the above effects impact maritime component operations.
3. Indentify METOC thresholds associated with mission/ operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Naval Rules Database
2. Joint METOC Officer's Course, "Lesson 7.2: METOC Impacts on Operations – Maritime Domain" lecture
3. MCWP 3-35.7

MIA-2952 1.0 * B E G

Goal. State the physical METOC effect on the air domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the air domain.
2. State how the above effects impact air component operations.
3. Identify METOC thresholds associated with mission/ operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. U.S. Joint Forces Command Joint Meteorology & Oceanography (METOC) Handbook. 1st JMOC edition, April 2011
2. Aircraft Icing Handbook, Civil Aviation Authority, 2000
3. AFH 11-203V1, Weather For Aircrews, 12 Jan 12
4. AFH 11-203V2, Weather For Aircrews, 16 May 02 (currently in revision)
5. USSOCOM Manual 525-6, Meteorological and Oceanographic Thresholds for Special Operations Forces (SOF), 29 May 2009
6. Joint METOC Officer's Course, "Lesson 7.3: METOC Impacts on Operations – Air Domain" lecture
7. MCWP 3-35.7

MIA-2953 1.0 * B E G

Goal. State the physical METOC effect on the space domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the space domain.
2. State how the above effects impact space operations.
3. Identify METOC thresholds associated with mission/ operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2053, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFH 11-203V1 (12 Jan 2012), Weather For Aircrews (Chapter 18: Space Weather)
2. AFSPCPAM 15-2 (1 Oct 2003), Space Environmental Impacts on DoD Operations
3. Joint METOC Officer's Course, "Lesson 7.4: METOC Impacts on Operations – Space Domain" lecture

3.11 MISSION SKILL PHASE (3000)

3.11.1 Purpose. To provide standardized training for individuals performing higher level officer tasks.

3.11.2 General.

3.11.2.1 Admin Notes. This level contains advanced Mission Skill training. It increases proficiency in basic Core Skills and develops mission-specific knowledge, skills and leadership that leads to combat qualifications and leadership designations. Individuals proficient in this phase of training should be capable of planning/leading/directing METOC support requirements in a contingency operation or personnel within command and control or MEF support agencies.

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

PAR NO.	STAGE NAME
3.11.3	ACADEMICS (ACAD)
3.11.4	METEOROLOGICAL SURFACE OBSERVATIONS (MSO)
3.11.5	ASTRONOMICAL/TIDAL DATA (ATD)
3.11.6	EQUIPMENT (EQPT)
3.11.7	METEROLOGICAL FORECASTING (METF)
3.11.8	METOC PRODUCT BRIEFING (MPB)
3.11.9	LITTORAL FORECASTING/ANALYSIS (LFA)
3.11.10	ADMINISTRATION (ADM)
3.11.11	MANAGEMENT (MGT)
3.11.12	METOC PLANNING COORDINATION (MPC)

3.11.3 ACADEMIC (ACAD) STAGE

3.11.3.1 Purpose. The stage outlines all relevant computer based training modules, correspondence courses, instructor-led distance learning courses, and formal resident courses to assist in the completion of events within the 3000 level phase of training.

3.11.3.2 General

Prerequisite. Core Skill complete for the Mission Skill attempting to attain.

Admin Notes.
(1) Each event specifies the location of the training materials.

(2) Upon completion of academic events, personnel should print completion certificates for entry into M-SHARP and Performance Record. Copies of completion certificates shall be placed within and maintained in individual training jackets.

(3) A general description of each type of training materials is as follows:

- Correspondence Course – A written publication that may or may not include testing materials.
- Computer Based Training – Self-paced learning modules that may be accessed via a CD-ROM/DVD or website.
- Instructor-Led Distance Learning – Formal courses of instruction that are accessed and facilitated via the internet (NIPRNET or SIPRNET)
- Resident Courses – Formal courses of instruction in which the student physically attends, normally at another location.

Crew Requirements. None.

ACAD-3000 24.0 * B E G

Goal. Complete 'METOC Support for Strike Warfare' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0014)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instrcutor

Prerequisite. 2090, 2091

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local navy PDD.

ACAD-3001 8.0 * B E G

Goal. Complete 'METOC Support for Amphibious Warfare' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0017)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local navy PDD.

ACAD-3002 8.0 * B E G

Goal. Complete 'METOC Support for Combat Search and Rescue/ Search and Rescue (CSAR/SAR)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0015)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local navy PDD.

ACAD-3003 40.0 * B E G

Goal. Complete 'Littoral Oceanography' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-825-410-001)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3004 8.0 * B E G

Goal. Complete 'Mobile Environmental Team Primer' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-849-411-001)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3005 16.0 * B E G

Goal. Complete 'Mobile Environmental Team Trainer' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-849-411-002)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. 3004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3006 24.0 * B E G

Goal. Complete 'METOC Support for Air Defense, Surface Warfare, and Information Warfare (AD, SW, IW)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Number: C-5B-0013)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. 2091

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3007 2.0 * B E G

Goal. Complete 'Space Weather Impacts on Aviation' module.

Requirement. Perform the requirements of the 'Space Weather Impacts on Aviation' module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-3008 1.0 * B E G

Goal. Complete 'Space Weather - Layers of the Sun' module.

Requirement. Perform the requirements of the 'Space Weather - Layers of the Sun' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at:
https://afwkc.csd.disa.mil/

ACAD-3009 1.0 * B E G

Goal. Complete 'Space Weather - Active Regions' module.

Requirement. Perform the requirements of the 'Space Weather - Active Regions' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at:
https://afwkc.csd.disa.mil/

ACAD-3010 1.0 * B E G

Goal. Complete 'Solar X-Ray Flares & HF Communications' module.

Requirement. Perform the requirements of the 'Solar X-Ray Flares & HF Communications' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at:
https://afwkc.csd.disa.mil/

ACAD-3011 1.0 * B E G

Goal. Complete 'Equatorial Scintillation and UHF SATCOM' module.

Requirement. Perform the requirements of the 'Equatorial Scintillation and UHF SATCOM' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at: https://afwkc.csd.disa.mil/

ACAD-3020 78.0 * B E G

Goal. Complete 'Applied Environmental Sciences' (AES) Course.

Requirement. Perform the requirements of the 'Applied Environmental Sciences' Course (Course Code: distance learning, WxAESA or resident, CID N66EB52).

Performance Standard. Complete the course.

Instructor. Formal Learning Center (FLC) Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references are held at the school house administering the course.

ACAD-3021 60.5 * B E G

Goal. Complete 'METOC Impacts Analyst Course (MIAC)' course

Requirement. Complete the course requirements in accordance with the established POI. (Distance Learning Course Code: WxMIAA or resident course, CID: N66WAL2)

Performance Standard. Complete the course.

Instructor. FLC Instructor, Web Based/MarineNet

Prerequisite. 3020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references are held at the school house administering the course

ACAD-3022 40.0 * B E G

Goal. Complete 'Riverine Analysis and Forecasting Course' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC-045-798-410-009)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. 2046, 2047, 2051

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Watershed Assessment of River Stability and Sediment Supply (WARSSS) 1st Edition, By: Dave Rosgen, Wildland Hydrology, 1 February 2007, ISBN-10: 0979130808
2. Applied River Morphology 2nd Edition, By: Dave Rosgen, Wildland Hydrology, 1 October 1996, ISBN-10: 0965328902
3. NOAA; http://www.nwrfc.noaa.gov/info/water_cycle/hydrology.cgi
4. NTTP 3-06.1, Riverine Operations
5. SUNY ESF, Department of Environmental Resources Engineering
6. FM 90-13, River-Crossing Operations
7. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738 AFWA TN 98-002 (revised Feb. 2012)
8. Kelsch, Matthew. Basic Hydrologic Sciences Distance Learning Course" MetEd, retrieved from http://meted.ucar.edu/.
9. All images are used under the Creative Commons© Licensing Program.
10. Meteorology for Scientist and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

ACAD-3023 8.0 * B E G

Goal. Complete 'METOC Support for Chemical, Biological, Radiological, and Nuclear Environment (CBRNE)' resident course.

Requirement. Complete the course requirements in accordance with the established POI.(Course Code: C-5B-0020)

Performance Standard. Obtain completion certificate.

Instructor. Local Navy PDD

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. ATP-45
2. HPAC User's Manual
3. HPAC NBC Primer
4. METOC Considerations for Chemical, Biological, and Nuclear WMD Analysis
5. Military Forces Guidebook SIPR Website
6. ATHENA-S WMO Share Counter-Proliferations Information Space
7. NBC Analysis Warning System
8. DTRA Website

ACAD-3024 24.0 * B E G

Goal. Complete 'METOC Support for Naval Special Warfare (NSW)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0021)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3025 24.0 * B E G

Goal. Complete 'Tactical Forecasting for Naval Special Warfare (NSW)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-792-410-008)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3026 32.0 * B E G

Goal. Complete 'OA Division Tactical Team (OATT) Trainer: Basic' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0019)

Performance Standard. Complete resident course.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3027 32.0 * B E G

Goal. Complete 'OA Division Tactical Team (OATT) Trainer: Intermediate' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0023)

Performance Standard. Complete resident course.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3028 32.0 * B E G

Goal. Complete 'OA Division Tactical Team (OATT) Trainer: Advanced' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0025)

Performance Standard. Complete resident course.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3029 35.0 0 B E G

Goal. Complete 'RQM 110 Core Concepts for Requirements Management' course.

Requirement. Perform the requirements of the 'Core Concepts for Requirements Management' course. (Course Number: RQM 110)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/DAU

Prerequisite. 2105

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-3030 35.0 0 B E G

Goal. Complete 'SYS 101 Fundamentals of Systems Planning, Research, Development, and Engineering' course.

Requirement. Perform the requirements of the 'Fundamentals of Systems Planning, Research, Development, and Engineering' course. (Course Number: SYS 101)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 2106

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-3031 4.0 0 B E G

Goal. Complete 'CLB 007 Cost Analysis' course.

Requirement. Perform the requirements of the 'Cost Analysis' course. (Course Number: CLB 007)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-3032 1.0 0 B E G

Goal. Complete 'CLV 016 or CLB 016 Introduction to Earned Value Management' course.

Requirement. Perform the requirements of the 'Introduction to Earned Value Management' course. (Course Number: CLV 016 or CLB 016)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-3033 25.0 0 B E G

Goal. Complete 'ACQ 201A Intermediate Systems Acquisition, Part A' course.

Requirement. Perform the requirements of the 'Intermediate Systems Acquisition, Part A' course. (Course Number: ACQ 201A)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

3.11.4 METEOROLOGICAL SURFACE OBSERVATIONS (MSO) STAGE

3.11.4.1 Purpose. To develop proficiency in observing, recording and disseminating meteorological elements that comprise the surface meteorological reports (observations).

3.11.4.2 General.

Prerequisite. None.

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at observing atmospheric phenomenon, units of measurement, quality control procedures and dissemination of parameters.

Crew Requirements. None.

MSO-3100 30.0 365 B,R,M E L

Goal. Conduct a surface meteorological observation.

Requirement. Observe, record, and disseminiate 30 surface meteorological observations from automated sensing equipment under supervision; five of which must be a SPECI. Perform the following:

1. Determine type of observation
2. Record type of observation.
3. Record time of observation.
4. Verify and record wind direction, speed, character, and significant wind events.
5. Evaluate, verify and record visibility.
   (a) Types and direction of obscuring phenomena.
   (b) Types and intensity of weather.
6. Determine and record sky condition.
   (a) Cloud type.
   (b) Cloud height.
   (c) Cloud direction and movement.
   (d) Cloud amount.
7. Read and record dry bulb and dew point temperatures.
8. Read and record current altimeter setting.
9. Encode and record applicable remarks.
10. Read and record station pressure.
11. Read and record sea level pressure.
12. Proof read recorded elements.
13. Initial observation, confirming accuracy of report.
14. Record summary of the day.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 1 - Surface Weather Observations and Reports, September 2005, FCM-H1-2005, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-3102 1.0 365 B,R,M E L

Goal. Encode and disseminate a pilot weather report (PIREP).

Requirement. Given a PIREP and appropriate forms, correctly encode and disseminate 10 PIREPs. Perform the following:

1. Receive the PIREP via available communication device.
2. Annotate the data on the correct form.
3. Encode the PIREP.
4. Disseminate the PIREP via local and longline resources.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3142.1_

3.11.5 ASTRONOMICAL/TIDAL DATA (ATD) STAGE

3.11.5.1 Purpose. To develop proficiency at deriving astronomical and tidal data.

3.11.5.2 General

Prerequisite. None.

Admin Notes. Upon completion of this stage of training, METOC personnel shall be able to compute or retrieve astronomical or tidal data.

Crew Requirements. None.

ATD-3150 1.0 365 B,R,M E L

Goal. Produce astronomical data.

Requirement. Utilizing appropraite software, produce the following astronomical data for 10 locations:

1. Sunrise/sunset.
2. Sun elevation angles/azimuth.
3. Beginning/ending of civil/nautical twilights.
4. Moonrise/moonset.
5. Lunar illumination.
6. Moon elevation angles/azimuth.
7. LUX values.
8. Shadows.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2000, 2300, 2301

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Geophysics Fleet Mission Program Library (GFMPL) Users Manual
2. MCWP 3-35.7

ATD-3151 1.5 180 B,R,M E L

Goal. Produce tidal data.

Requirement. Utilizing appropraite software, produce the following tidal data for 10 locations:

1. Tide height for a specific time.
2. Tide range for a specific time.
3. High tide.
4. Low Tide.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2000, 2003, 2004, 2048, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. MCWP 3-35.7

3.11.6 EQUIPMENT (EQPT) STAGE

3.11.6.1 Purpose. To introduce academic or practical application of METOC equipment.

3.11.6.2 General.

Prerequisite. None.

Admin Notes.
(1) These events are related to mission skill proficiency readiness, and assist in core skill training.

(2) Local mission and operating procedures will dictate academic training required to support events. Local METOC officers and/or qualified METOC personnel shall review academic POIs for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

Crew Requirements. None.

EQPT-3200 0.5 365 B,R,M E L

Goal. Operate the Automated Surface Observing System (ASOS).

Requirement. Operate the ASOS to retrieve, archive, and adjust weather elements in order to ensure accurate weather information is displayed.

1. Power on the ASOS terminal.
2. Log on as user.
3. Manipulate software to display desired screens.
4. Manipulate software to alter automated readings as required.
5. Archive ASOS data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Information regarding ASOS operations can be found at http://www.nws.noaa.gov/asos/

EQPT-3201 24.0 365 B,R,M E L

Goal. Operate garrison METOC equipment in order to provide support to base operations.

Requirement. Configure, operate, and conduct operator level troubleshooting of the following METOC systems:

1. Applicable lightning tracking system.
2. Pilot Metro Voice Frequency (PMSV) Radio.
3. Weather Vision.
4. Hand Held equipment (PMQ-3, psychrometers).
5. Kestrel
6. Automated Surface Observing System (ASOS).

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. ASOS reference http://www.nws.noaa.gov/asos/
2. PMSV http://navyflightmanuals.tpub.com/P-806/P-8060103.htm
3. PMQ http://meteorologytraining.tpub.com/14269/css/14269_105.htm
4. Kestrel http://www.kestrelmeters.com/

EQPT-3202 6.0 365 B,R,M E L

Goal. Conduct management operations for the meteorological radar system.

Requirement. Given a Doppler radar system, applicable operating manuals and understanding the configurations, limitations, and capabilities of Doppler radar systems, display a working knowledge of Doppler radar management functions. Configuration should allow for ingest, analysis, manipulation, and production of derived radar products. Perform, at a minimum, the following tasks:

1. Ensure configuration is commensurate with desired product generation.
   (a) Pulse repetition frequency.
   (b) Sample rates.
   (b) Gate width.
   (c) Beam width.
   (d) Operating frequency.
   (e) Scanning speeds.
2. Archive generated products.
3. Ensure Doppler radar products are available through electronic means

to the end customer.
4. Ensure hazards of electromagnetic radiation to fuels (HERF) procedures are implemented and adhered to.
5. Ensure hazards of electromagnetic radiation to personnel (HERP) procedures are implemented and adhered to.
6. Ensure hazards of electromagnetic radiation to ordnance (HERO) procedures are implemented and adhered to.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2402

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Organizational Level Maintenance Instructions for AN/UMK-4(v)4, TESS/NITES, EE100-FF-OMI-010 REV 7
2. Automated Weather Observing System Operating Instructions

EQPT-3204 1.0 180 B,R,M E L

Goal. Setup or assist with the setup of the AN/UMK-4(v)4, Tactical Environment Support System/Navy Integrated Tactical Environmental Subsystem (TESS/NITES).

Requirement. In accordance with the references, setup or assist with the setup of the AN/UMK-4(v)4, TESS/NITES.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Organizational Level Maintenance Instructions for AN/UMK-4(v)4, TESS/NITES, EE100-FF-OMI-010 REV 7
2. Automated Weather Observing System Operating Instructions

EQPT-3205 12.0 180 B,R,M E L

Goal. Operate the AN/UMK-4(v)4 TESS/NITES.

Requirement. In a simulated or actual deployed environment, perform the following actions:

1. Deploy and setup of NITES IV.
2. Utilize directed means to provide METOC impact assessment to supported element.
3. Conduct satellite communications operations (if available) for data receipt and communications.
4. Conduct data receipt operations.
5. Conduct data transfer to and from the common operating picture via predetermined software to determine and provide relevant tactical METOC impact assessments.
6. Conduct graphical data retrieval and analyzation in support of impact assessment.
7. Conduct analyzation of locally sensed data for METOC impact assessment.
8. Develop impact assessment briefing for applicable MAGTF component for large-scale dissemination via oral, electronic and remote video means.
9. Demonstrate how to send and receive e-mail's with the STRATOS Software.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NITES SYSTEM MANUAL EE100-FF-OMI-010.
2. NITES SYSTEM ADMINISTRATOR MANUAL EE100-PR-SAM-010.

EQPT-3206 1.0 180 B,R,M E L

Goal. Pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.

Requirement. In accordance with the references, pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Organizational Level Maintenance Instructions for AN/UMK-4(v)4, TESS/NITES, EE100-FF-OMI-010 REV 7
2. Automated Weather Observing System Operating Instructions

EQPT-3207 1.0 365 B,R,M E L

Goal. Setup surface meteorological sensing systems.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological sensing equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference. The surface meteorological system must be setup within 45 minutes.

Instructor. BI

Prerequisite.

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction

EQPT-3208 1.0 365 B,R,M E L

Goal. Pack the surface meteorological sensing system.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction
3. 334-192046 Embarkation Guide

EQPT-3209 2.0 365 B,R,M E L

Goal. Setup the meteorological radar subsystem for integrated operations.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological radar equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. E700XD Doppler Weather Radar Installation Guide and Users Manual

EQPT-3210 2.0 365 B,R,M E L

Goal. Pack the meteorological radar subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. E700XD Doppler Weather Radar Installation Guide and Users Manual
3. 334-192046 Embarkation Guide

EQPT-3211 1.0 365 B,R,M E L

Goal. Setup the meteorological satellite subsystem.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological satellite equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-3212 1.0 365 B,R,M E L

Goal. Pack the meteorological satellite subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.

2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

EQPT-3213 1.0 365 B,R,M E L

Goal. Setup the meteorological upper air subsystem for integrated operations.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological upper air equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-3214 1.0 365 B,R,M E L

Goal. Pack the meteorological upper air subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

EQPT-3215 1.0 365 B,R,M E L

Goal. Setup the meteorological communication subsystem.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological communication equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-3216 1.0 365 B,R,M E L

Goal. Pack the meteorological communication subsystem.

Requirement. Given the reference, an assembled surface meteorological

sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction
3. 334-192046 Embarkation Guide

EQPT-3217 1.0 365 B,R,M E L

Goal. Setup the meteorological product generation and dissemination subsystem.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological product generation and dissemination system.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction

EQPT-3218 1.0 365 B,R,M E L

Goal. Pack the meteorological product generation and dissemination subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction
3. 334-192046 Embarkation Guide

EQPT-3219 24.0 365 B,R,M E L

Goal. Operate the AN/TMQ-56 METMF(R) NEXGEN.

Requirement. In a simulated or actual deployed environment, perform the following actions:

1. Provide secured and unsecured pilot to METRO communications.
2. Provide tower to METRO communications.
3. Conduct METOC impact assessments to operations in Area of interest.
4. Conduct data transmission and reception operations.
   a. Configure METCAST.
   b. Retrieve CAGIPS data.
   c. Run NOWCAST model.
5. Conduct data transfer to and from the common operating picture to determine and provide relevant tactical METOC pictures.
6. Conduct secured and unsecured voice communications.
7. Retrieve the following products utilizing Dispatch Weather.
   a. Acquire and analyze all satellite imagery for the production of forecasts and assessment of impacts to MAGTF operations.
   b. Acquire and analyze all radar imagery for the production of forecasts/warnings, advisories and assessment of impacts to MAGTF operations.
   c. Acquire and analyze synoptic, mesoscale and microscale METOC model output for the production of forecasts and assessment of impacts to MAGTF operations
8. Acquire, analyze, encode and disseminate local and remotely sensed

surface observations for the production of forecasts and assessment of impacts to MAGTF operations.
9. Conduct upper atmospheric observations for the production of forecasts and assessment of impacts to MAGTF operations.
10. Acquire and analyze all lightning data for the production of forecasts/warnings, advisories and assessment of impacts to MAGTF operations.
11. Develop impact assessment briefing, for applicable MAGTF components, for large-scale dissemination via oral, electronic,or remote means.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2402, 2403, 2404, 2405, 2406, 2407, 3202, 3207, 3209, 3211, 3213, 3215, 3217

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Operations and Maintenance Manual with Parts List, AN/TMQ-56 Measuring Set, METMF(R) NEXGEN, EM000-CD-OMP-010

3.11.7 METEOROLOGICAL FORECASTING (METF) STAGE

3.11.7.1 Purpose. To acheive proficiency in meteorological forecasting and mission specific equipment, elements and products.

3.11.7.2 General

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in meteorological forecasting and mission specific support requirements.

Crew Requirements. None.

METF-3250 26.0 365 B,R,M E L

Goal. Produce a Terminal Aerodrome Forecast (TAF).

Requirement. Use available meteorological data to assess and interpret meteorological conditions to complete a minimum of 12 TAFS with 50% of the TAFS for other than their current location.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3300, 3303

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3143.1_, Terminal Aerodrome Forecast (TAF) and the FM51-XII TAF Code
2. AFWA/TN-98/002 Revised, 21 February 2007
3. AFH 11-203(v2), 16 May 2002
4. Aerographer's Mate Second Class, Volume I METOC Training Manual
5. Aerographer's Mate Second Class, Volume II METOC Training Manual

METF-3251 6.0 365 B,R,M E L

Goal. Produce a limited data forecast.

Requirement. Given three METOC products and a location, produce a limited data forecast for a period of 48 hours and verify for accuracy.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual

3.11.8 METOC PRODUCT BRIEFING (MPB) STAGE

3.11.8.1 Purpose. To develop proficiency in the techniques and tactics used to verbally present current and future states of the atmosphere. Upon completion of this stage of training, METOC personnel shall be competent at conducting METOC briefings in support of mission requirements.

3.11.8.2 General.

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MPB-3300 2.0 365 B,R,M E L

Goal. Produce a flight weather packet.

Requirement. In accordance with the reference and given a flight weather packet request, prepare and brief 2 flight weather packets within 2 hours.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Flight Weather Briefing Manual, NAVMETOCCOMINST 3140.14F, May 2011.
2. NATOPS General Flight and Operating Instructions, OPNAV Instruction 3710.7U, November 2009.
3. Terminal Aerodrome Forecast (TAF) Code, NAVMETOCCOMINST 3143.1H, June 2011.
4. AFWA/TN-98/002 Revised, 21 February 2007
5. AFH 11-203(v2), 16 May 2002
6. Aerographer's Mate Second Class, Volume I METOC Training Manual
7. Aerographer's Mate Second Class, Volume II METOC Training Manual

MPB-3301 0.1 365 B,R,M E L

Goal. Brief a flight weather briefing (DD 175-1).

Requirement. Conduct a brief for 10 DD 175-1s. Instructor will ensure all pertinent information is briefed.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2601

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Flight Weather Briefing Manual, NAVMETOCCOMINST 3014._14
2. NATOPS General Flight and Operating Instructions, OPNAV Instruction 3710.7_
3. Terminal Aerodrome Forecast (TAF) Code, NAVMETOCCOMINST 3143.1_

MPB-3302 2.0 180 B,R,M E L

Goal. Produce a 96-hour graphical METOC brief.

Requirement. Use available meteorological data to assess and interpret meteorological conditions to complete a minimum 6, 96-hour graphical METOC briefs. The brief should include the following at a minimum:

1. Forecast conditions.
2. Sky condition.
3. Min and max temp
3. Winds.
4. Visibility.
5. Weather.
6. Astronomical data.
7. Brief the final product.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3250

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual

4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
7. MCWP 3-35.7

MPB-3303 12.0 365 B,R,M E L

Goal. Generate and conduct a climatology brief.

Requirement. Research and prepare a three-month climatology brief for a specified location. Elements to be included in the brief include, but are not limited to, the following:

1. Overview.
2. Geography.
3. Terrain.
4. Oceanography.
5. Astronomical.
6. Specific weather elements, if applicable:
   (a) Relative humidity.
   (b) Temperature.
   (c) Thunderstorms/precipitation.
   (d) Prevailing winds.
   (e) Sky condition.
   (f) IFR/VFR/Marginal VFR percentages.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2036, 2042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Global Physical Climatology Volume 56 By: Dennis L. Hartmann Published on 14 June 1994 ISBN-10: 0123285305
2. MCWP 3-35.7

MPB-3304 3.0 * B,R E L

Goal. Conduct an aviation strike brief.

Requirement. Prepare and present an aviation (mission specific) strike weather brief within 3-hours. Include the following information:

1. Nephanalysis.
2. Enroute weather.

(a) Sky condition.
(b) Weather.
(c) Visibility/Slant range visibility (NM).
(d) Sea surface temperature/in-water survival time.
(e) Winds.
(f) Temperatures.
(g) Turbulence.
(h) Icing.
(i) Contrail formation.
(j) Ditch heading (if applicable).

3. Target Area Weather (repeat for each area).
(a) Sky condition.
(b) Weather.
(c) Visibility/slant range visibility (NM).
(d) Surface winds.
(e) Maximum/minimum temperatures.
(f) Cloud tops/ceilings.
(g) Freezing level.
(h) D-Values (if applicable).

4. Astronomical Data.
(a) Sunrise/Sunset.
(b) Sun elevation angles/azimuth.
(c) Beginning/ending civil/nautical twilights.
(d) Moonrise/moonset.
(e) Lunar illumination.
(f) Moon angles elevation/azimuth.
(g) Lux values.
(h) Shadow forecast.

5. 48-hour outlook.
6. Tactical assessment.
7. Electro-Optical sensor performance predictions.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MPB-3305 3.0 * B,R E L

Goal. Conduct an aviation assault brief.

Requirement. Prepare and present an aviation (mission specific) assault weather brief within 3-hours. Include the following information:

1. Nephanalysis.
2. Enroute weather.
   (a) Sky condition.
   (b) Weather.
   (c) Visibility/Slant range visibility (NM).
   (d) Sea surface temperature/in-water survival time.
   (e) Winds.
   (f) Temperatures.
   (g) Turbulence.
   (h) Icing.
   (i) Contrail formation.
   (j) Ditch heading (if applicable).
3. Target Area Weather (repeat for each area).
   (a) Sky condition.
   (b) Weather.
   (c) Visibility/slant range visibility (NM).
   (d) Surface winds.
   (e) Maximum/minimum temperatures.
   (f) Cloud tops/ceilings.
   (g) Freezing level.
   (h) D-Values (if applicable).
4. Astronomical Data.
   (a) Sunrise/Sunset.
   (b) Sun elevation angles/azimuth.
   (c) Beginning/ending civil/nautical twilights.
   (d) Moonrise/moonset.
   (e) Lunar illumination.
   (f) Moon angles elevation/azimuth.
   (g) Lux values.
   (h) Shadow forecast.
5. 48-hour outlook.
6. Tactical assessment.
7. Electro-Optical sensor performance predictions.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MPB-3306 8.0 * B,R E L

Goal. Conduct an amphibious warfare brief.

Requirement. Prepare and present an amphibious warfare brief within 6-hours. Include the following information:

1. Current weather information.
2. 24-hour weather forecast.
3. Aviation parameters.
4. Surf/MSI observation/forecast.
5. Sea conditions observation/forecast.
6. Tactical assessment.
7. Atmospheric refractive summary.
8. Astronomical data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MPB-3307 2.0 * B,R E L

Goal. Conduct a Search and Rescue (SAR) brief.

Requirement. Prepare and conduct the following:

1. Current and forecast weather information for predetermined areas of operation.
2. Utilizing appropriate software and/or charts, provide mission planning forecasts to include, but not limited to:
   (a) Water temperatures.
   (b) Drift data.
   (c) Survival times.
   (d) Current speed and direction.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Navy Search and Rescue (SAR) Manual, NTTP 3-50.1
2. MCWP 3-35.7

3.11.9 LITTORAL FORECASTING/ANALYSIS (LFA) STAGE

3.11.9.1 Purpose. To acquire proficiency in collecting, analyzing and forecasting oceanographic and littoral parameters.

3.11.9.2 General.

Prerequisite. None.

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at forecasting and analyzing oceanographic and littoral parameters.

Crew Requirements. None.

LFA-3350 1.0 180 B,R,M E L

Goal. Compute Modified Surf Index (MSI).

Requirement. Given mission parameters, observed/forecasted conditions/parameters and appropriate software or forms, generate MSI for three locations.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2900, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3100, 3102, 3151

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Joint Surf Manual COMNAVSURFPAC/LANT 3840.1_.
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

LFA-3351 24.0 180 B,R,M E L

Goal. Create a surf forecast.

Requirement. Utilizing appropriate program and requirements for operations, generate a surf forecast that contains the listed

components:

1. Beach survey.
2. Significant breaker height.
3. Maximum breaker height.
4. Breaker period.
5. Breaker type.
6. Breaker angle.
7. Littoral current speed and direction.
8. Modified surf index.
9. Wind direction in surf zone.
10. Beach profile data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2900, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3100, 3102, 3103, 3151, 3350

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Joint Surf Manual COMNAVSURFPAC/LANT 3840.1_.
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)
3. Aerographer's Mate Second Class Vol II METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

3.11.10 METOC IMPACT ASSESSMENT (MIA) STAGE

3.11.10.1 Purpose. To acquire proficiency in the processes and products that assist in providing assessment of atmospheric conditions to mission specific support requirements.

3.11.10.2 General.

Prerequisites. None

Admin Notes. None

Crew Requirements. None

MIA-3400 3.0 365 B,R,M E L

Goal. Produce METOC impacts on command, control, and communication (C3) operations.

Requirement. Assess and brief the METOC impacts on C3 operations. The assessment will consider, at a minimum, the following:

1. Space weather.
2. Temperature profile.
3. Precipitation.
4. Snow depth and coverage.
5. EM propagation.
6. Hazardous weather.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MIA-3401 3.0 365 B,R,M E L

Goal. Produce METOC impacts on MAGTF operations.

Requirement. After conducting a thorough mission analysis, utilize METOC equipment to assess and brief METOC impacts on MAGTF operations. The assessment shall include, at a minimum, the following essential elements:

1. Mission weather.
2. Tactical Decision Aids.
3. Astronomical data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MIA-3402 3.0 365 B,R,M E L

Goal. Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.

Requirement. Produce mission specific impact assessments for the listed missions. Exhibit a comprehensive knowledge of METOC element impacts on the major platforms and support activities of the following:

1. Humanitarian aid missions.
2. Deep strike missions.
3. Force on force missions.
4. Over the horizon missions.
5. Counterinsurgency missions.
6. Tactical Decision Aids.
   a. Weapons of mass destruction.
   b. Laser guided munitions.
   c. Infrared guided munitions.
   d. Visual guided munitions.
   e. GPS guided munitions.
7. Communications.
   a. Satellite.
   b. UHF/VHF.
8. Trafficability.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011, 3401

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. Applicable JPs

3.11.11 MANAGEMENT (MGT) STAGE

3.11.11.1 Purpose. To acquire proficiency in the management of METOC operations within a MAGTF unit, Joint or Coalition Command.

3.11.11.2 General.

Prerequisite. None

Admin Notes. The following apply to this stage of training:

(1) All personnel shall be assigned this stage of training upon completion of the Core Skill Introduction phase and prior to assignment to any other stage.

(2) Upon completion of this stage of training, the METOC Officer shall be competent in managing a MAGTF, Joint, or Coalition METOC capability.

Crew Requirements. None

MGT-3450 24.0 365 B,R,M E L

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

Requirement. Given a scenario or operational deployment and Commander's Guidance, deploy the METOC section:

1. Review operational requirements and develop an Equipment Density List (EDL).
2. Coordinate for support equipment as required.
3. Verify and complete Bill of Materials (BOM).
4. Establish Secondary Reparables (SECREP) requirements as required.
5. Supervise pack-up of equipment and validate EDL accuracy.
6. Ensure correct execution of the load plan for equipmet handling and safety.
7. Coordinate with external agencies as required.

Performance Standard. With the aid of reference, complete the requirement.

Instructor. WTI

Prerequisite. 2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3500

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. Local Directives and Standard Operating Procedures (SOP)

MGT-3451 12.0 365 B,R,M E L

Goal. Manage METOC Operations in support of unit exercise or deployment.

Requirement. Given a scenario or operational deployment and Commander's Guidance, manage METOC operations:

1. Develop SOPs.

2. Develop crew schedules.
3. Coordinate METOC support requirements/products with external agencies.
4. Develop, implement, and execute a training plan.
5. Ensure security procedures are being followed.

Performance Standard. With the aid of reference, complete the requirement.

Instructor. WTI

Prerequisite. 2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3450, 3500

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

3.11.12 METOC PLANNING COORDINATION (MPC) STAGE

3.11.12.1 Purpose. To acquire proficiency in the development of Annexes and Op Orders. This stage also develops an understanding of the METOC integration into Joint Operations and support of Intel Operations.

3.11.12.2 General.

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MPC-3500 8.0 * B E L

Goal. Submit input to annexes of operational orders.

Requirement. Submit METOC input to the annexes of operational orders and LOIs to the requesting command. Complete the requirement on each of the following:

1. Intelligence, Annex B.
2. METOC Operations, Annex H.
3. Command Relationships, Annex J.
4. Combat Information, Annex K.

Performance Standard. Complete the requirement by practical application.

Instructor. WTI

Prerequisite. 2057, 2058, 2059

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. MCPP 5-1, Marine Corps Planning Process

MPC-3501 1.0 1095 B,R,M E G

Goal. Demonstrate an understanding of how METOC integrates into the Joint Intelligence Preparation of the Operational Environment (JIPOE).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Define the JIPOE process.
2. Describe how METOC information integrates into the JIPOE phases.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. SI

Prerequisite. 2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 2-01.3, Joint Intelligence Preparation of the Operational Environment, 16 Jun 09
2. FM 34-130, Intelligence Preparation of the Battlefield, 8 July 1994
3. JP 3-59, Joint METOC Operations
4. Joint METOC Officer's Course, "Lesson 8.1: METOC in the Planning Processes - Joint Intelligence Preparation of the Operational Environment (JIPOE)" lecture

MPC-3502 1.0 0 B E G

Goal. Demonstrate an understanding of METOC integration into Joint Operation Planning and Execution System (JOPES).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Describe the purpose of JOPES.
2. State the purpose of Security Cooperation Planning, Force Planning, and Joint Operation Planning.
3. State the purposes of Contingency Planning and identify the types of plans produced.
4. State the purposes of Crisis Action Planning (CAP) and identify the type of orders issued.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. SI

Prerequisite. 2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 5-0
2. JP 3-59
3. CJCSM 3122.01A
4. CJCSM 3122.03C
5. CJCSM 3122.02C
6. NWC Lecture, OPS 7-2 JOPES
7. Joint METOC Officer's Course, "Lesson 8.1: METOC in the Planning Processes - Joint Operation Planning and Execution System" lecture

MPC-3503 1.0 0 B E G

Goal. Demonstrate an understanding of how METOC integrates into the Joint Operational Planning Process (JOPP).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Compare the different planning processes to JOPP.
2. Describe the key steps of JOPP.
3. Describe how METOC integrates into JOPP.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. SI

Prerequisite. 2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066,

8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 5-0
2. JP 3-59
3. Joint METOC Officer's Course, "Lesson 8.1: METOC in the Planning Processes - Joint Operation Planning Process" lecture

MPC-3505 35.0 * B E L

Goal. Conduct METOC support for Intelligence Operations.

Requirement. Provide METOC support through all phases of Intelligence Operations execution operations. Complete, at a minimum, the following items:

1. Participate in target package development.
2. Coordinate METOC support requirements for the targeting cycle.
3. Develop and produce Targeting METOC Products.
4. Participate in Collections Operations Management (COM) working group.
5. Coordinate METOC support requirements for COM.
6. Develop and produce COM METOC Products.

Performance Standard. Complete the requirement by practical application.

Instructor. WTI

Prerequisite. 3501

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. MCWP 2-2
3. MCWP 2-21
4. MCWP 2-22
5. MCWP 2-24B
6. MCWP 2-26
7. MCWP 2-3
8. MCWP 2-4
9. MCWP 2-6
10. Local Directives and Standard Operating Procedures (SOP)
11. JP 3-60
12. MCRP 3-16A

13. MCWP 2-1
14. MCWP 2-3

3.12 CORE PLUS SKILL PHASE (4000)

3.12.1 Purpose. This level contains core plus skill training associated with low probability of execution and/or theater specific operations. Although Core Plus training events may provide valuable training opportunities, they are not considered essential to achieve unit Core Competency. Core Plus training is conducted at the discretion of operational commanders and allows unit training flexibility. Upon completion of the Core Plus Phase, an individual is considered core skill proficient and one-hundred percent combat ready. Core Competency for operational units resides in the 2000-3000 training levels (considered 'Core' at the operational echelon). Mastery of 2000-3000 level Core Skills results in highly trained personnel who contribute to the unit's overall warfighting capability and enables a combat unit to accomplish its assigned mission. Therefore, operational units shall emphasize individual proficiency in 2000-3000 level Core Skills. In some instances, certain Core Plus skills may be deemed essential depending on mission requirements and therefore may be considered Core Skills for pre-deployment readiness determination. Only the MAW or MAGTF commander may "re-designate" a Core Plus Skill to the Core Skill level for readiness reporting purposes.

3.12.2 General

3.12.2.1 Admin Notes. A comprehensive brief and debrief will be conducted for each mission per squadron SOPs.

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

PAR NO.	STAGE NAME
3.12.3	ACADEMICS (ACAD)
3.12.4	METOC DOCTRINE (MDN)
3.12.5	MANAGEMENT (MGT)
3.12.6	MARINE ATC MOBILE TEAM MEMBER (MMTM)

3.12.3 ACADEMICS (ACAD) STAGE

3.12.3.1 Purpose. The stage outlines all relevant computer based training modules, correspondence courses, instructor-led distance learning courses, and formal resident courses to assist in the completion of events within the 2000 level phase of training.

2.12.3.2 General

Prerequisite. None.

Admin Notes.

(1) Each event specifies the location of the training materials.

(2) Upon completion of academic events, personnel should print completion certificates for entry into Basic Training Records (BTR). Copies of completion certificates shall be placed within and maintained in individual training jackets.

(3) A general description of each type of training materials is as follows:

- Correspondence Course – A written publication that may or may not include testing materials.
- Computer Based Training – Self-paced learning modules that may be accessed via a CD-ROM/DVD or website.
- Instructor-Led Distance Learning – Formal courses of instruction that are accessed and facilitated via the internet (NIPRNET or SIPRNET)
- Resident Courses – Formal courses of instruction in which the student physically attends, normally at another location.

Crew Requirements. None.

ACAD-4000 16.0 * B E G

Goal. Complete 'Mediterranean Forecast Course' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: S-5B-0003)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-4001 16.0 * B E G

Goal. Complete 'Central Command (CENTCOM) AOR Forecasting' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: S-5B-0005)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-4002 16.0 * B E G

Goal. Complete 'METOC Forecasting for COMSEVENTHFLT AOR' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-841-411-011)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-4010 16.0 0 B E G

Goal. Complete 'Senior METOC Officer Afloat (SMOA) Course' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0011)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-4011 36.0 0 B E G

Goal. Complete 'RQM 310, Advanced Concepts for Requirements Management' resident course.

Requirement. Perform the requirements of the 'Advanced Concepts for Requirements Management' resident course. (Course Number: RQM 310)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. 2105, 3029

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at: https://learn.dau.mil

ACAD-4012 36.0 0 B E G

Goal. Complete 'ACQ 201B Intermediate Systems Acquisition, Part B' resident course.

Requirement. Perform the requirements of the 'Intermediate Systems Acquisition, Part B' resident course. (Course Number: ACQ 201B)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. 2106, 3033

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at: https://learn.dau.mil

ACAD-4013 30.0 0 B E G

Goal. Complete 'PMT 251 Program Management Tools Course, Part I' course.

Requirement. Perform the requirements of the 'Program Management Tools Course, Part I' course. (Course Number: PMT 251)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 2106, 3033, 4012

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4014 36.0 0 B E G

Goal. Complete 'PMT 257 Program Management Tools Course, Part II' course.

Requirement. Perform the requirements of the 'Program Management Tools Course, Part II' course. (Course Number: PMT 257)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 2106, 3033, 4012, 4013

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4015 12.0 0 B E G

Goal. Complete 'CON 121 Contract Planning' course.

Requirement. Perform the requirements of the 'Contract Planning' course. (Course Number: CON 121)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. None (for Program Management professionals)

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4016 13.0 0 B E G

Goal. Complete 'CON 124 Contract Execution' course.

Requirement. Perform the requirements of the 'Contract Execution' course. (Course Number: CON 124)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 4015

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4017 10.0 0 B E G

Goal. Complete 'CON 127 Contract Management' course.

Requirement. Perform the requirements of the 'Contract Management' course. (Course Number: CON 127)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 4015, 4016

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4018 18.0 0 B E G

Goal. Complete 'EVM 101 Fundamentals of Earned Value Management' course.

Requirement. Perform the requirements of the 'EVM 101 Fundamentals of Earned Value Management' course. (Course Number: EVM 101)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 2106

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4019 34.0 0 B E G

Goal. Complete 'IRM 101 Basic Information Systems Acquisition' course.

Requirement. Perform the requirements of the 'Basic Information Systems Acquisition' course. (Course Number: IRM 101)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 2106

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4020 18.0 0 B E G

Goal. Complete 'EVM 101 or BCF 102 Fundamentals of Earned Value Management' course.

Requirement. Perform the requirements of the 'Fundamentals of Earned Value Management' course. (Course Number: EVM 101 or BCF 102)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/DAU

Prerequisite. 2106

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://learn.dau.mil

ACAD-4021 2.0 * B E G

Goal. Complete 'Lean Six Sigma White Belt' course.

Requirement. Perform the requirements of the 'Lean Six Sigma White Belt' course. (Course Number: NETC-LSSWB-1.0)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for module can be found at Navy eLearning:
https://www.lms.prod.nel.training.navy.mil/Atlas2/faces/page/desktop/DesktopHome.seam?tabId=1&cid=tab_1#

ACAD-4022 8.0 * B E G

Goal. Complete 'Lean Six Sigma Yellow Belt' course

Requirement. Perform the requirements of the 'Lean Six Sigma Yellow Belt' course.

Performance Standard. Obtain completion certificate.

Instructor. Local MALS AIRSpeed Shop

Prerequisite. 4021

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. United Stated Marine Corps Continuous Process Improvement (CPI) Guidebook
2. COMNAVAIRFORINST 4790.2A (NAMP)
3. DoD Directive 5010.42
4. DoD Instruction 5010.43
5. DoD CPI Transformation Guidebook
6. SECNAVINST 5220.13
7. SECNAVINST 5220.14
8. SECNAV M-5214.1
9. MCO 3710.7 USMC Current Readiness Guidebook
10. MCO 4400.177F (ASDTP W/CPI)
11. MCO 5220.12 Marine Corps CPI
12. NAE AIRSpeed Green Belt Guidebook

ACAD-4030 32.0 0 B E G

Goal. Complete 'Joint METOC Officer' resident course.

Requirement. Complete the course requirements in accordance with the established POI.

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references held and updated at the resident school house.

3.12.4 METOC DOCTRINE (MDN) STAGE

3.12.4.1 Purpose. To achieve proficiency in METOC doctrine associated with other services, joint operations, and geographical areas.

3.12.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MDN-4200 1.0 0 B E G

Goal. Demonstrate an understanding of the key concepts of interagency operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Summarize joint operations in CONUS in support of homeland defense or civil support (HD/CS) missions.
2. Explain the differences in relationship between the JMO and Title 10, Title 32, and state National Guard forces in the joint operations area.
3. Explain how a JTF in CONUS acts in a supporting relationship to the primary federal agency and other federal agencies.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSI 3810.01_
2. JP 3-28
3. JP 3-59
4. National Security Strategy

5. National Strategy for Homeland Security
6. National Response Framework
7. National Incident Management System
8. Joint METOC Officer's Course, "Lesson 6.1: Interagency - Homeland Defense & Civil Support METOC" lecture

MDN-4201 1.5 0 B,R E G

Goal. State the METOC organization within the US Africa Command (AFRICOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant AFRICOM METOC documents.
2. Describe AFRICOM organization and mission.
3. Describe how METOC is organized within AFRICOM.
4. List AFRICOM-unique METOC equipment, systems, and communications.
5. Recall current and planned AFRICOM METOC operations.
6. Summarize current METOC issues affecting AFRICOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Annex H to the Theater Campaign Plan & Regional Campaign Plans
2. Annex H to multiple CONPLANs
3. CJCSI 3810.01_
4. CJCSM 3122.03_
5. Joint METOC Handbook
6. JP 3-59
7. Joint METOC Officer's Course, "Lesson 10.2: Unified Command METOC Overview - US Africa Command" lecture

MDN-4202 1.5 0 B,R E G

Goal. State the METOC organization within the US Central Command (USCENTCOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant USCENTCOM METOC documents.
2. Describe USCENTCOM organization and mission.

3. Describe how METOC is organized within CENTCOM.
4. List USCENTCOM-unique equipment, systems, and communications.
5. Recall current and planned CENTCOM METOC operations.
6. Summarize current METOC issues affecting USCENTCOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 3-59
2. Joint METOC Handbook (JMH), 2011
3. USCENTCOM Regulation 115-2
4. USCENTCOM Combined Letter of Instruction (LOI)
5. Joint METOC Officer's Course, "Lesson 10.3: Unified Command METOC Overview - US Central Command" lecture

MDN-4203 1.5 0 B,R E G

Goal. State the METOC organization within the US European Command (EUCOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant EUCOM METOC documents.
2. Describe EUCOM organization and mission.
3. Describe how METOC is organized within EUCOM.
4. List EUCOM-unique equipment, systems, and communications.
5. Recall current and planned EUCOM METOC operations.
6. Summarize current METOC issues affecting EUCOM.
7. Understand the METOC support relationship between EUCOM and AFRICOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. USEUCOM J3-USAFE/DO Memorandum of Agreement (U)
2. Annex H to Standard Plan (SP) 4000-10
3. Weather Supplement To The War Mobilization Plan-1 (WMP-1)
4. EUCOM Directive (ED) 55-11, Change 1, EUCOM Theater Command and Control Policy, 07 Apr 2006 (U)
5. Allied Weather Publication (AWP)-2, Change 3, "NATO Meteorological Support Manual"
6. Joint METOC Officer's Course, "Lesson 10.4: Unified Command METOC Overview - US European Command" lecture

MDN-4204 1.5 0 B,R E G

Goal. State the METOC organization within the US Northern Command (USNORTHCOM) and North American Aerospace Defense Command (NORAD).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant USNORTHCOM METOC documents.
2. Describe USNORTHCOM organization and mission.
3. Describe how METOC is organized within NORTHCOM.
4. List USNORTHCOM-unique equipment, systems, and communications.
5. Recall current and planned NORTHCOM METOC operations.
6. Summarize current METOC issues affecting USNORTHCOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 3-59
2. CJCSI 3810.01D
3. Joint METOC Handbook
4. USNORTHCOM METOC CONOPS
5. NORAD Instruction 15-1
6. Unified Command Plan
7. Global Force Management Implementation Guidance
8. Joint METOC Officer's Course, "Lesson 10.6: Unified Command METOC Overview - US Northern Command and North American Aerospace Defense Command" lecture

MDN-4205 1.5 0 B,R E G

Goal. State the METOC organization within the US Pacific Command (USPACOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant USPACOM METOC documents.
2. Describe USPACOM organization and mission.
3. Describe how METOC is organized within PACOM.
4. List USPACOM-unique equipment, systems, and communications.
5. Recall current and planned PACOM METOC operations.
6. Summarize current METOC issues affecting USPACOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. USPACOMINST 0539.1
2. USPACOMINST 0539.2
3. USPACOMINST 0539.3
4. USPACOMINST 0539.4
5. Joint METOC Officer's Course, "Lesson 10.7: Unified Command METOC Overview - US Pacific Command" lecture

MDN-4206 1.5 0 B,R E G

Goal. State the METOC organization within the US Southern Command (USSOUTHCOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant USSOUTHCOM METOC documents.
2. Describe USSOUTHCOM organization and mission.
3. Describe how METOC is organized within SOUTHCOM.
4. List USSOUTHCOM-unique equipment, systems, and communications.
5. Recall current and planned SOUTHCOM METOC operations.
6. Summarize current METOC areas of concern affecting USSOUTHCOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. ANNEX H to multiple CONPLANS and OPORDs
2. SOUTHCOM Regulation 0539
3. SOUTHCOM OPLAN 0526
4. Joint METOC Officer's Course, "Lesson 10.8: Unified Command METOC Overview - US Southern Command" lecture

MDN-4207 1.5 0 B,R E G

Goal. State the METOC organization within the US Special Operations Command (USSOCOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant USSOCOM METOC documents.
2. Describe USSOCOM organization and mission.
3. Describe how METOC is organized within USSOCOM.
4. List USSOCOM-unique equipment, systems, and communications.
5. Recall current and planned USSOCOM METOC operations.
6. Summarize current METOC issues affecting USSOCOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCS 3810.01C
2. JP 3-59
3. Joint METOC Handbook (JMH), 2008
4. JP 3-05
5. JP 3-05.1
6. SOCOM Manual 115-2
7. SOCOM Manual 525-6
8. Special Operations Forces Reference Manual, Joint Special Operations University, JSOU Press, Jun 05 (revised Jun 06)
9. Joint METOC Officer's Course, "Lesson 10.9: Unified Command METOC

Overview - US Special Operations Command" lecture

MDN-4208 1.5 0 B,R E G

Goal. State the METOC organization within the US Strategic Command (USSTRATCOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant USSTRATCOM METOC documents.
2. Describe USSTRATCOM organization and mission.
3. Describe how METOC is organized within STRATCOM.
4. List USSTRATCOM METOC equipment, systems, and communications.
5. Recall current and planned STRATCOM METOC operations.
6. Summarize current METOC issues affecting USSTRATCOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. President of the United States, Unified Command Plan (UCP)
2. JP 3-59
3. CJCSI 3810.01C
4. Strategic Command Instruction 541-01
5. US Strategic Command Meteorological and Oceanographic Concept of Operations, 30 September 2009
6. Joint METOC Officer's Course, "Lesson 10.10: Unified Command METOC Overview - US Strategic Command" lecture

MDN-4209 1.5 0 B,R E G

Goal. State the METOC organization within the US Transportation Command (USTRANSCOM).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. List relevant USTRANSCOM METOC documents.
2. Describe USTRANSCOM organization and mission.
3. Describe how METOC is organized within USTRANSCOM.
4. List USTRANSCOM-unique equipment, systems, and communications.
5. Recall current and planned USTRANSCOM METOC operations.
6. Summarize current METOC issues affecting COCOM.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. USTC Annual Command Report
2. USTRANSCOM Operations Logs
3. Joint METOC Officer's Course, "Lesson 10.11: Unified Command METOC Overview - US Transportation Command" lecture

3.12.5 MANAGEMENT (MGT) STAGE

3.12.5.1 Purpose. Demonstrate familiarity in managing programs within the METOC section.

3.12.5.2 General

Prerequisite. None.

Admin Notes.
(1) The Core Skill Advanced phase is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, the METOC officer shall be proficient in establishing and managing programs within the METOC section to facilitate METOC support operations.

Crew Requirements. None.

MGT-4250 8.0 1095 B,R,M E G

Goal. Develop an embarkation program within the METOC section.

Requirement. Given the references and required information, establish and maintain an embarkation program by performing the following:

1. Assign (in writing) embarkation (primary and secondary) representatives.
2. Establish an embarkation program that addresses:
   a. Hazardous Material requirements.
   b. Physical Security requirements.
   c. Material Handling Equipment (MHE) requirements.
   d. Equipment specific transportation requirements.
   e. MAGTF Deployment Support System II (MDSS II) elements.
3. Integrate section embarkation program into unit embarkation

program.
4. Integrate embarkation program into section SOP.

Performance Standard. Complete the requirement IAW the references. Demonstrate thorough understanding of the embarkation program. Brief the instructor and answer questions on the embarkation program.

Instructor. SI

Prerequisite. 2062, 2101

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 4030.33
2. MCRP 4-11
3. Local Directives and Standard Operating Procedures (SOP)

MGT-4251 16.0 0 B,R E G

Goal. Conduct of a Functional Area 890 Inspection in support of the Unit Inspection Program (UIP).

Requirement. With the aid of reference, conduct a simulated inspection of a METOC section and draft a written report.

Performance Standard. Practical application. Report will reflect required information and demonstrate thorough understanding. Instructor will discuss inspection and report with the trainee.

Instructor. SI

Prerequisite. 2805

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 5040.6
2. NAVMC DIR 5040.6H
3. Automated Inspection Reporting System (AIRS) Functional Area 890 Meteorology and Oceanography checklist
4. Inspector General of the Marine Corps website: http://www.hqmc.marines.mil/igmc/Resources/FunctionalAreaChecklists.aspx

MGT-4252 2.0 0 B,R E G

Goal. Organize METOC resources into a functional joint METOC organization within a new Joint Task Force (JTF).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Explain preliminary JMO-SMO coordination in establishing the JTF METOC organization.
2. Identify assigned and/or available METOC resources.
3. Identify gaps in needed METOC resources.
4. Review the JMO's role in the development of various plans in the joint planning process.
5. Explain the coordination within the JTF of METOC information contained in plan annexes.
6. Explain the specific information (operational details/intelligence) and METOC guidance required to be included in the Annex H.
7. Explain the requirements for, and the information contained in the METOC Letter of Instruction (LOI).

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 3-59
2. JP 5-0
3. CJCSM 3122.01A
4. CJCSM 3122.03C
5. Joint METOC Officer's Course, "Lesson 9.1: Joint METOC Management - Establishing the Joint METOC Organization" lecture

MGT-4253 2.0 0 B,R E G

Goal. Describe the application of Continuous Process Improvement (CPI) concepts in relation to METOC support operations.

Requirement. Conduct a self-paced reading of the reference, then without the aid of reference, perform the following:

1. Explain how the following concepts and principles can be applied to METOC support operations:
   a. Lean Six Sigma
   b. Theory of Constraints
2. Discuss CPI roles and responsibilities within the unit and section.
3. Discuss potential CPI projects or Rapid Improvement Events (RIEs) within the section and the benefits to METOC support operations.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. SI

Prerequisite. 4021, 4022

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. United Stated Marine Corps Continuous Process Improvement (CPI) Guidebook
2. COMNAVAIRFORINST 4790.2A (NAMP)
3. DoD Directive 5010.42
4. DoD Instruction 5010.43
5. DoD CPI Transformation Guidebook
6. SECNAVINST 5220.13
7. SECNAVINST 5220.14
8. SECNAV M-5214.1
9. MCO 3710.7 USMC Current Readiness Guidebook
10. MCO 4400.177F (ASDTP W/CPI)
11. MCO 5220.12 Marine Corps CPI
12. NAE AIRSpeed Green Belt Guidebook

MGT-4254 8.0 1095 B,R,M E L

Goal. Perform System Administration.

Requirement. Given a scenario, ensure the following:

1. Manage disaster recovery plan.
2. Manage logfiles.
3. Manage user accounts.
4. Apply software release updates.
5. Monitor disk space.
6. Manage system passwords.

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

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. 0222561 Software User Manual
2. EE100-PR-SAM-B10 System Administration Manual

3.12.6 MARINE ATC MOBILE TEAM MEMBER (MMTM) STAGE

3.12.6.1 Purpose. To achieve skills required for the METOC Marine to become a proficient member of the Marine ATC Mobile Team.

3.12.6.2 General

Prerequisite. None.

Admin Notes. This stage of training is taught by the Marine ATC Mobile Team Leader (72XX).

Crew Requirements. None.

MMTM-4300 6.0 * B E L

Goal. Conduct MMT assault landing zone (ALZ) Operations.

Requirement. Given the required equipment at a LZ or simulated LZ with a six-member MMT and the references, conduct the following during day and night conditions:

1. Establish and retrograde an airfield marking pattern (AMP)-1.
2. Establish and retrograde an AMP-2.
3. Establish and retrograde an AMP-3.

Performance Standard. Complete the requirement items IAW the references. Rapidly and accurately accomplish the requirement steps while serving in at least three of the six billets associated with the establishment of a C-130 ALZ. Panels or lights were properly aligned and securely fixed to the ground without error.

Instructor. BI (MMTL)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. One ALZ capable of supporting expeditionary C-130 operations.

Reference.
1. MMT TACSOP.
2. MAWTS-1 Course Catalog.

MMTM-4301 4.0 * B E L

Goal. Conduct MMT Helicopter Landing Zone (HLZ) Operations.

Requirement. Given the required equipment at an HLZ or simulated HLZ and the references, conduct the following during day and night conditions:

1. Mark the HLZ utilizing Bullet Traps.
2. Mark the HLZ utilizing an Inverted T.
3. Establish visual initial terminal guidance (ITG) during night operations.

Performance Standard. Complete the requirement items IAW the references. Dimensions of the markings were accurate and the marking of the HLZ met criteria. ITG was established and easily identified from the air.

Instructor. BI (MMTL)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. One HLZ.

Reference.
1. MMT TACSOP.

MMTM-4302 12.0 * B,R E L

Goal. Conduct MMT land navigation operations.

Requirement. Given the required equipment in a field environment with a six-member MMT and a list of five MGRS locations, complete a land navigation course.

Performance Standard. Complete the requirement items IAW the references. Accurately locate the MGRS locations while navigating with a DAGR.

Instructor. BI (MMTL)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-11.3, Scouting and Patrolling.
2. MCRP 3-11.2A, Marine Troop Leader's Guide (Chapter 3, Fire Team).

MMTM-4303 12.0 730 B,R,M E 1 AN/PSQ-34 L

Goal. Collect assault zone survey data using equipment organic to the MMT.

Requirement. Given the required equipment in a field environment, gather data for the completion of an assault zone survey to include as directed by the team leader:

1. Determine assault zone coordinates with GPS / DAGR.
2. Operate the laser range finder to determine distances and elevations of obstacles and terrain.
Elevations of obstacles and terrain.
3. Operate a clinometer to determine vertical and horizontal angles.
4. Determine runway gradients using line levels/yard sticks.
5. Operate dynamic cone penetrometer and collect data for analysis.

Performance Standard. Collect data under the supervision of the instructor with minor errors and corrections to support the completion of an assault zone survey and assessment.

Instructor. BI (MMTL)

Prerequisite. 2401, 4305, 4306

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MMT TACSOP.
2. MAWTS-1 C3 Course Catalog.
3. UFC 3-260-01, Airfield and Heliport Planning and Design
4. Engineering Technical Letter 04-7: C-130 and C-17 Landing Zone Dimensional, Marking and Lighting Criteria.
5. Engineering Technical Letter 02-19: Airfield Pavement Evaluation Standards and Procedures.

MMTM-4304 2.0 1460 B,R,M E L

Goal. Perform as a METOC MMT Member during operational planning.

Requirement. Given a warning order or fragmentary order during an operation or training exercise under the supervision of a qualified MMT Leader:

1. Prepare and account for team and individual equipment.
2. Conduct operational checks.
3. Program communication equipment
4. State the team mission and describe individual assignments as they pertain to the mission.
5. Successfully complete all tasks assigned by the team leader.

Performance Standard. Complete the requirement items proficiently, IAW the reference and with no errors.

Instructor. BI

Prerequisite. 2401, 2701, 2702, 2703, 2704, 2705, 2706, 2707

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MMT TACSOP.

MMTM-4305 2.0 * B,R E 1 AN/PSQ-34 L

Goal. Operate the Dynamic Cone Penetrometer (DCP).

Requirement. Given a DCP and the references:

1. Describe the purpose and use of the DCP.
2. Describe the components of the DCP.
3. Operate the DCP.
4. Record measurements from a DCP for 5 locations to a depth of 36 inches.

Performance Standard. Complete the requirement items IAW the references.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. DCP User's Manual
2. Engineering Technical Letter 2-19.

MMTM-4306 2.0 * B,R E 1 AN/PSQ-34 L

Goal. Operate the Laser Range Finder (LRF).

Requirement. Given a LRF and the references:

1. Describe the purpose and use of the LRF.
2. Describe the modes and programming of the LRF.
3. Operate the LRF.
4. Record five measurements for obstacles or terrain, including distance and height above observer location.

Performance Standard. Complete the requirement items IAW the references.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. LRF User's Manual

3.13 INSTRUCTOR TRAINING (5000) PHASE

3.13.1 Purpose. This phase contains instructor workup and evaluation certification syllabus events. This level will also contain instructor workup and certification syllabus events as applicable for Contract Instructors (CI) who instructs simulator events.

3.13.2 General

3.13.2.1 Admin Notes.

(1) Each event specifies the location of the training materials.

(2) Upon completion of academic events, personnel should print completion certificates for entry into Basic Training Records (BTR). Copies of completion certificates shall be placed within and maintained in individual training jackets.

(3) A general description of each type of training materials is as follows:

- Correspondence Course – A written publication that may or may not include testing materials.
- Computer Based Training – Self-paced learning modules that may be accessed via a CD-ROM/DVD or website.
- Instructor-Led Distance Learning – Formal courses of instruction that are accessed and facilitated via the internet (NIPRNET or SIPRNET)
- Resident Courses – Formal courses of instruction in which the student physically attends, normally at another location.

3.13.2.2 Prerequisites. None

3.13.2.3 Stages. The following stage is included in the Instructor 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 General. The MAWTS-1 C3 Course catalog contains the training requirements for above listed instructors. The catalog is located at the MAWTS-1 website, https://www.intranet.tecom.usmc.mil/sites/mawts1/default.aspx. The table below lists all IUT events.

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

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.
WTI	Mission Skill, Core Plus, and Qualification events. WTI: - Evaluate and recommend for qualification - Endorse recommendations for position designations
Notes	1. The Commanding Officer is the approving authority for qualifications and designations.

3.14 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS (6000)

3.14.1 Purpose. This phase contains tracking codes for designations and training that provide community standardization for combat leadership and instructor designations. This syllabus does not include “one time” certification training.

3.14.2 General.

2.14.2 Prerequisite. Completion of the ACPM, academics, Core, Mission, and or Core Plus Skill events required for the position being trained.

3.14.2.1 Admin Notes.

(1) The squadron WTI shall review the Individual Performance Record (IPR) to ensure all required training, documentation and administrative actions have been completed prior to staffing qualification or designation recommendations for approval.

(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 will the

qualification or designation be effective.

3.14.2.2 Stages. The following stage is included in the Requirements, Certifications, Qualifications, and Designations Phase of training.

PAR NO.	STAGE NAME
3.14.3	SCHOOL CODES (SCHL)
3.14.4	QUALIFICIATIONS (QUAL)
3.14.5	CERTIFICATIONS (CERTS)
3.14.6	DESIGNATIONS (DESG)

3.14.3 SCHOOL CODES (SCHL) STAGE

3.14.3.1 Purpose. To identify courses for METOC personnel to attend to meet training requirements.

3.14.3.2 General.

Prerequisite. As dictated by individual school.

Admin Notes. None

Crew Requirement. None.

SCHL CODE	NAME OF COURSE	LOCATION	CID
SCHL-6000	Weapons and Tactics Instructor (WTI)	MCAS Yuma, AZ	M14P2A1

3.14.4 QUALIFICATIONS (QUAL) STAGE

3.14.4.1 Purpose. To identify requirements for each of the crew watch positions for METOC personnel.

3.14.4.2 General.

Prerequisite. None

Administrative Notes. None

Crew Requirement. None.

QUAL-6200 1.0 * B L

Goal. Qualify as a METOC Observer (MO).

Requirement. Complete the required training in the MO POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 3100, 3102, 3150, 3151

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

QUAL-6201 1.0 * B L

Goal. Qualify as an Apprentice METOC Analyst Forecaster (AMAF).

Requirement. Complete the required training in the AMAF POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3102, 3150, 3151, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

QUAL-6202 1.0 * B L/S

Goal. Qualify as a Journeyman METOC Analyst Forecaster (JMAF).

Requirement. Complete the required training in the JMAF POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044,

2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3102, 3150, 3151, 3203, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

QUAL-6203 1.0 * B G

Goal. Qualify as a METOC Support Team Observer (MSTO).

Requirement. Complete the required training in the MSTO POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2071, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2700, 2702, 2703, 3004, 3026, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 6200, 6211

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

QUAL-6204 1.0 * B G

Goal. Qualify as a METOC Support Team Forecaster (MSTF).

Requirement. Complete the required training in the MSTF POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 3001, 3002, 3003, 3004, 3022, 3023, 3024, 3025, 3026, 3027, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

QUAL-6205 1.0 * B G

Goal. Qualify as a METOC Support Team Leader (MSTL).

Requirement. Complete the required training in the MSTL POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2101, 2108, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 6202, 6203, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

3.14.5 CERTIFICATIONS (CERT) STAGE

3.14.5.1 Purpose. To identify requirements for each of the certifications for METOC personnel.

3.14.5.2 General.

Prerequisite. None

Administrative Notes. None

Crew Requirement. None.

CERT-6210 1.0 * B G

Goal. Certify as a Station MO.

Requirement. Complete the required training in the Station MO POI. Be recommended by a WTI to the commanding officer who will approve the certification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2350, 2400, 3100, 3102, 3150, 3151, 3200, 3201, 6200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

CERT-6211 1.0 * B G

Goal. Certify as a Tactical MO.

Requirement. Complete the required training in the Tactical MO POI. Be recommended by a WTI to the commanding officer who will approve the certification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 6200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

CERT-6212 1.0 * B L

Goal. Certify as a Tactical AMAF.

Requirement. Complete the required training in the Tactical AMAF POI. Be recommended by a WTI to the commanding officer who will approve the certification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2402, 2403, 2404, 2405, 2406, 2407, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3102, 3150, 3151, 3202, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

3.14.6 DESIGNATIONS (DESG) STAGE

3.14.6.1 Purpose. To identify requirements for each of the combat leadership positions for METOC personnel.

3.14.6.2 General.

Prerequisite. None

Administrative Notes. None

Crew Requirement. None.

DESG-6310 2.01.0 1095 B,R,M GS/L

Goal. Designation as a Journeyman METOC Officer (JMO).

Requirement. 1. Complete the prerequisites under the supervision of a unit instructor.
2. Be recommended by a unit WTI.
3. The commanding officer will designate the JMO in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2850, 2851, 2852, 2853, 2855, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3029, 3031, 3032, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3501, 3502, 3503, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

DESG-6311 2.01.0 1095 B,R,M GS/L

Goal. Designation as a Master METOC Officer (MMO).

Requirement. 1. Complete the prerequisites under the supervision of a unit instructor.
2. Be recommended by a unit WTI.
3. The commanding officer will designate the MMO in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3029, 3030, 3031, 3032, 3033, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3501, 3502, 3503, 3505, 6200, 6201, 6202, 6310, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

DESG-6320 1.0 * B L

Goal. Designation as a Basic Instructor (BI).

Requirement. 1. Complete the prerequisites under the supervision of a unit instructor.
2. Be recommended by a unit SI or WTI.
3. The commanding officer will designate the BI in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. N/A

Prerequisite. 5000, 5010, 5020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

DESG-6321 1.0 * B L

Goal. Designation as a Senior Instructor (SI).

Requirement. 1. Be recommended for SI designation by a WTI.
2. MATC Marines attached to an air station may be designated as SI by another MATC SI due to the unique nature of the station ATC training curriculum.
3. The commanding officer will designate the SI in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. N/A

Prerequisite. 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

DESG-6322 1.0 * B L

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

Requirement. Be certified by MAWTS-1 as a WTI, designated by the commanding officer in writing, appropriate entry made in M-SHARP and a letter filed in the IPR.

Performance Standard. N/A

Prerequisite. 6000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. METOC Tables of Organization

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.

2.15.2 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-7000 80.0 545 B,R,M E L/S

Goal. Conduct Meteorology and Oceanography (METOC) Support.

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

1. Conduct Mission Analysis.
2. Review Operational Planning Documents.
3. Identify required support personnel.
4. Identify Administrative (ADCON) and Tactical Control (TACON).
5. Identify equipment requirements.
6. Conduct a Recon, Selection, and Occupation of Position (RSOP).
7. Identify, create, and finalize administrative documents supporting the operation.

8. Coordinate with external agencies.
9. Conduct embarkation, and retrograde of personnel and equipment.
10. Maintain accountability of personnel.
11. Conduct METOC support operations.
12. Conduct crew evaluations.
13. Compile After-Action items.

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

Instructor. WTI

Prerequisite. (3) Intel CMMR METOC crews

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. Representatives from the S-1, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7, METOC Operations
3. Unit SOP

COND-7001 80.0 545 B,R,M E L/S

Goal. Conduct METOC Support Team (MST) Services.

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 MST during day or night conditions to include the following:

1. Conduct Problem Framing.
2. Review Operational Planning Documents.
3. Identify personnel and equipment requirements.
4. Conduct an RSOP (as required).
5. Coordinate with external agencies.
6. Identify, create and finalize administrative documents supporting the operations.
7. Brief supported personnel (as required).
8. Inspect MST personnel and equipment to be deployed.
9. Coordinate arrival into the landing area appropriate to the plan.
10. Maintain accountability of personnel.
11. Upon arrival at a site, take a weather observation to establish LZ heading.
12. Within one hour of arrival at the site, setup appropriate weather sensing equipment, establishing winds temperature, dewpoint and pressure capability.
13. Within 1.5 hours of arrival at the site, establish appropriate enhanced weather sensing equipment (if applicable). Enhancements include visibility, present weather, ceilometer and lightening

detector.
14. Provide timely coordination with refueling and/or arming personnel for warnings, watches and advisories.
15. As appropriate to the plan, retrograde from the landing zone with the last available transportation.
16. Conduct crew evaluations.
17. Compile After-Action items.

Performance Standard. Perform the requirement items listed and provide METOC analysis operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. (2) CMMR METOC crew.

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Squadron SOP

COND-7002 80 545 B,R,M E L/S

Goal. Provide Meteorological Services.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, provide meteorological services to include the following:

1. Identify required support personnel.
2. Identify required equipment.
3. Identify, create, and finalize administrative documents supporting airfield operations.
4. Coordinate with external agencies.
5. Provide augmentation of the Automated Surface Observation System (ASOS).
6. Provide meteorological services.
8. Conduct watch turnover briefs to maintain environmental situational awareness.
7. Conduct crew evaluations.

Performance Standard. Perform the requirement items listed and provide meteorological services to airfield operations.

Instructor. WTI

Prerequisite. (4) Station CMMR METOC crews

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. Airfield Operations Officer and representatives from the S-1, S-2, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Unit SOP

COND-7003 80.0 545 B,R,M E L/S

Goal. Provide Meteorological/Oceanographic (METOC) Services.

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, provide meteorological services to include the following:

1. Conduct Mission Analysis.
2. Review Operational Planning Documents.
3. Identify required support personnel.
4. Identify Administrative (ADCON) and Tactical Control (TACON).
5. Identify equipment requirements.
6. Conduct an RSOP.
7. Identify, create, and finalize administrative documents supporting the operation to include input to the Annexes H, B, and K.
8. Coordinate with external agencies to include communications, heavy equipment, supply, utilities, and Electronic Key Management System (EKMS) personnel.
9. Conduct embarkation, and retrograde of personnel and equipment.
10. Maintain accountability of personnel.
11. Establish appropriate level II security measures.
12. Within 1 hour of arrival at the site, setup the AN/TMQ-56's Local Sensor Subsystem (LSS), the Meteorological Satellite Subsystem (MSS), and take surface observation.
13. Within 3 hours of arrival at the site, setup the AN/TMQ-56's Meteorological Radar Subsystem (MRS), Upper Air Subsystem (UAS), Processing Subsystem (PCS) and the Communication Subsystem (CMS). In addition to the above listed items.
14. Provide METOC services as outlined in the Annex H.
15. Conduct corrective and preventive maintenance as mandated.
16. Conduct crew evaluations.
17. Compile After-Action items.

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

Instructor. WTI

Prerequisite. (4) C2 CMMR METOC

Ordnance. None

Range. Range space capable of supporting METOC equipment and weather balloon launch.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Unit SOP

COND-7004 80.0 545 B,R,M E L/S

Goal. Conduct METOC Support Team (MST) Services.

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 MST during day or night conditions to include the following:

1. Conduct Problem Framing.
2. Review Operational Planning Documents.
3. Identify personnel and equipment requirements.
4. Conduct an RSOP (as required).
5. Coordinate with external agencies.
6. Identify, create and finalize administrative documents supporting the operations.
7. Brief supported personnel (as required).
8. Inspect MST personnel and equipment to be deployed.
9. Coordinate arrival into the landing area appropriate to the plan.
10. Maintain accountability of personnel.
11. Upon arrival at a site, take a weather observation to establish LZ heading.
12. Within one hour of arrival at the site, setup appropriate weather sensing equipment, establishing winds temperature, dewpoint and pressure capability.
13. Within 1.5 hours of arrival at the site, establish appropriate enhanced weather sensing equipment (if applicable). Enhancements include visibility, present weather, ceilometer and lightening detector.
14. Provide timely coordination with refueling and/or arming personnel for warnings, watches and advisories.
15. As appropriate to the plan, retrograde from the landing zone with the last available transportation.
16. Conduct crew evaluations.
17. Compile After-Action items.

Performance Standard. Perform the requirement items listed and provide METOC analysis operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. (2) CMMR METOC crew.

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Squadron SOP

3.16. AVIATION CAREER PROGRESSION MODEL (8000).

STAGE	TRNG CODE	T&R DESCRIPTION		ACAD TIME	TO BE COMPLETED DURING
ACPM	8000	**MACCS**		1	2000
ACPM	8001	MARINE AIR COMMAND AND CONTROL SYSTEM		4	2000
ACPM	8002	TACTICAL AIR COMMAND CENTER (TACC)		4	2000
ACPM	8003	DIRECT AIR SUPPORT CENTER (DASC)		4	2000
ACPM	8004	TACTICAL AIR OPERATIONS CENTER (TAOC)		4	2000
ACPM	8005	MARINE AIR TRAFFIC CONTROL (MATC)		4	2000
ACPM	8006	LOW ALTITUDE AIR DEFENSE (LAAD)		4	2000
ACPM	8007	MARINE UNMANNED AERIAL VEHICLE SQUADRON (VMU)		4	2000
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)		4	2000
ACPM	8020	**ACE**		1	2000
ACPM	8021	AVIATION OPERATIONS		4	2000
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES		4	2000
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)		4	2000
ACPM	8024	ASSAULT SUPPORT		4	2000
ACPM	8025	AIR RECONNAISSANCE		4	2000
ACPM	8026	ELECTRONIC WARFARE		4	2000
ACPM	8027	ANTI-AIR WARFARE		4	2000
ACPM	8028	AVIATION GROUND SUPPORT		4	2000
ACPM	8040	**THREAT**		1	3000
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	3000
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	3000
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	3000
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	3000
ACPM	8045	RADIO ELECTRONIC COMBAT THREAT TO THE MAGTF		4	3000
ACPM	8060	**MAGTF**		1	3000
ACPM	8061	GROUND COMBAT OPERATIONS		4	3000
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	3000
ACPM	8063	MAGTF COMMAND AND CONTROL		4	3000
ACPM	8064	MAGTF COMMUNICATIONS		4	3000
ACPM	8065	PHASING CONTROL ASHORE		4	3000

ACPM	8066	INFORMATION MANAGEMENT		4	3000
ACPM	8067	UAS SUPPORT TO THE MAGTF		4	3000
ACPM	8080	**JOINT AIR OPERATIONS**		1	3000
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	3000
ACPM	8082	THEATER AIR CROUND SYSTEM (TAGS)		4	3000
ACPM	8083	JOINT FIRE SUPPORT		4	3000
ACPM	8084	CLOSE AIR SUPPORT		4	3000
ACPM	8085	JOINT TARGETING		4	3000
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	3000
ACPM	8087	JOINT AIRSPACE CONTROL		4	3000
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	3000
TOTAL ACPM STAGE			41	149	

3.17 T&R ATTAIN AND MAINTAIN TABLES.

METOC MOS 6802											
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		
Complete 'Aerographer's Mate Third Class METOC Training Manual (AG3)' Module.	ACAD	2000	*	ACAD	2000					-	-
Complete 'Skew-T Mastery' Module.	ACAD	2001	*	ACAD	2001					2000	-
Complete 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module.	ACAD	2002	*	ACAD	2002					2000	-
Complete 'Aerographer's Mate Second Class (AG2) Vol I METOC Training Manual' Module.	ACAD	2003	*	ACAD	2003					2000	-
Complete 'Aerographer's Mate Second (AG2) Class Vol II METOC Training Manual' Module.	ACAD	2004	*	ACAD	2004					2000, 2003	-
Complete 'Forecasting Radiation Fog' Module.	ACAD	2005	*	ACAD	2005					2000, 2003, 2004	-
Complete 'Forecasting Radiation Fog' Module.	ACAD	2005	*	ACAD	2005					2000, 2003, 2004	-
Complete 'Dynamically Forced Fog' Module.	ACAD	2006	*	ACAD	2006					2000, 2003, 2004	-
Complete 'Dynamically Forced Fog' Module.	ACAD	2006	*	ACAD	2006					2000, 2003, 2004	-
Complete 'Local Influences on Fog and Low Stratus' Module.	ACAD	2007	*	ACAD	2007					2000, 2003, 2004	-
Complete 'Thermally-Forced Circulation I: Sea Breezes' Module.	ACAD	2008	*	ACAD	2008					2000, 2003, 2004	-
Complete 'Thermally-Forced Circulation II: Mountain Valley Winds' Module.	ACAD	2009	*	ACAD	2009					2000, 2003, 2004, 2008	-
Complete 'Cold Air Damming' Module.	ACAD	2010	*	ACAD	2010					2000, 2003, 2004	-
Complete 'Coastally Trapped Wind Reversals' Module.	ACAD	2011	*	ACAD	2011					2000, 2003, 2004	-
Complete 'Gap Winds' Module.	ACAD	2012	*	ACAD	2012					2000, 2003, 2004	-
Complete 'Flow Interaction with Topography' Module.	ACAD	2013	*	ACAD	2013					2000, 2003, 2004	-
Complete 'Mountain Waves and Downslope Winds' Module.	ACAD	2014	*	ACAD	2014					2000, 2003, 2004	-
Complete 'Atmospheric Dust' Module.	ACAD	2015	*	ACAD	2015					2000, 2003, 2004	-
Complete 'Forecasting Dust Storms Version 2' Module.	ACAD	2016	*	ACAD	2016					2000, 2003, 2004, 2015	-
Complete 'Forecasting Dust Storms Version 2' Module.	ACAD	2016	*	ACAD	2016					2000, 2003, 2004, 2015	-
Complete 'Low-Level Coastal Jets' Module.	ACAD	2017	*	ACAD	2017					2000, 2003, 2004	-
Complete 'Jet Streak Circulations' Module.	ACAD	2018	*	ACAD	2018					2000, 2003, 2004	-
Complete 'Vorticity Maxima and Comma Patterns' Module.	ACAD	2019	*	ACAD	2019					2000, 2003, 2004	-

Complete 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module.	ACAD	2020	*	ACAD	2020					2000, 2003, 2004	-
Complete 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module.	ACAD	2021	*	ACAD	2021					2000, 2003, 2004	-
Complete 'Principles of Convection I: Buoyancy and CAPE' Module.	ACAD	2022	*	ACAD	2022					2000, 2003, 2004	-
Complete 'Principles of Convection II: Using Hodographs' Module.	ACAD	2023	*	ACAD	2023					2000, 2003, 2004, 2022	-
Complete 'Principles of Convection III: Shear and Convective Storms' Module.	ACAD	2024	*	ACAD	2024					2000, 2003, 2004, 2022, 2023	-
Complete 'Lectures on Radar Applications in Mesoscale Meteorology' Module.	ACAD	2025	*	ACAD	2025					2000, 2003, 2004	-
Complete 'Landfalling Fronts and Cyclones' Module.	ACAD	2026	*	ACAD	2026					2000, 2003, 2004	-
Complete 'How Mesoscale Models Work' Module.	ACAD	2027	*	ACAD	2027					2000, 2003, 2004	-
Complete 'Definition of the Mesoscale' Module.	ACAD	2028	*	ACAD	2028					2000, 2003, 2004	-
Complete 'Introduction to Ensemble Prediction' Module.	ACAD	2029	*	ACAD	2029					2000, 2003, 2004	-
Complete 'Ten Common NWP Misconceptions' Module.	ACAD	2030	*	ACAD	2030					2000, 2003, 2004	-
Complete 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module	ACAD	2031	*	ACAD	2031					2000, 2003, 2004	-
Complete 'Mesoscale Banded Precipitation' Module.	ACAD	2032	*	ACAD	2032					2000, 2003, 2004	-
Complete 'Intelligent Use of Model-Derived Products –Version 2' Module.	ACAD	2033	*	ACAD	2033					2000, 2003, 2004	-
Complete 'Effective Use of NWP in the Forecast Process: Introduction' Module	ACAD	2034	*	ACAD	2034					2000, 2003, 2004	-
Complete 'Influence of Model Physics on NWP Forecasts-Version 2' Module.	ACAD	2035	*	ACAD	2035					2000, 2003, 2004	-
Complete 'Introduction to Climatology' Module.	ACAD	2036	*	ACAD	2036					2000, 2003, 2004	-
Complete 'Isentropic Analysis' Module.	ACAD	2037	*	ACAD	2037					2000, 2003, 2004	-
Complete 'PBL in Complex Terrain - Part 1' Module.	ACAD	2038	*	ACAD	2038					2000, 2003, 2004	-
Complete 'PBL in Complex Terrain – Part 2' Module.	ACAD	2039	*	ACAD	2039					2000, 2003, 2004, 2038	-
Complete 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module.	ACAD	2040	*	ACAD	2040					2000, 2003, 2004	-
Complete 'Forecasting Aviation Icing: Icing Type and Severity' Module.	ACAD	2041	*	ACAD	2041					2000, 2003, 2004	-
Complete 'Writing Effective TAFS' Module.	ACAD	2042	*	ACAD	2042					2000, 2003, 2004	-
Complete 'Writing TAFS for Convective Weather' Module.	ACAD	2043	*	ACAD	2043					2000, 2003, 2004, 2042	-
Complete 'Writing TAFS for Winds and LLWS' Module.	ACAD	2044	*	ACAD	2044					2000, 2003, 2004, 2042, 2043	-
Complete 'Writing TAFs for Ceiling and Visibility' Module.	ACAD	2045	*	ACAD	2045					2000, 2003, 2004, 2042	-
Complete 'Introduction to Distributed Hydrologic Modeling' Module.	ACAD	2046	*	ACAD	2046					2000, 2003, 2004	-

Complete 'Understanding the Hydrologic Cycle' Module.	ACAD	2047	*	ACAD	2047					2000, 2003, 2004	-
Complete 'Introduction to Ocean Tides' Module.	ACAD	2048	*	ACAD	2048					2000, 2003, 2004	-
Complete 'Rip Currents: Forecasting' Module.	ACAD	2049	*	ACAD	2049					2000, 2003, 2004	-
Complete 'Introduction to Ocean Currents' Module.	ACAD	2050	*	ACAD	2050					2000, 2003, 2004	-
Complete 'Introduction to the Verification of Hydrologic Forecasts' Module.	ACAD	2051	*	ACAD	2051					2000, 2003, 2004, 2046, 2047	-
Complete 'Unit Hydrograph Theory' Module.	ACAD	2052	*	ACAD	2052					2000, 2003, 2004	-
Complete 'Space Weather Basics' Module.	ACAD	2053	*	ACAD	2053					2000, 2003, 2004	-
Complete 'Basics of Visisbile and Infrared Remote Sensing' Module.	ACAD	2055	*	ACAD	2055					2000	-
Complete 'Microwave Remote Sensing: Clouds, Precipitation, and Water Vapor' Module.	ACAD	2056	*	ACAD	2056					2003, 2004, 2055	-
Complete 'MCI 0118K Spelling' course.	ACAD	2057	*	ACAD	2057					-	-
Complete 'MCI 0119H Punctuation' course.	ACAD	2058	*	ACAD	2058					-	-
Complete 'MCI 0120 Basic Grammar and Composition' course.	ACAD	2059	*	ACAD	2059					-	-
Complete 'Operational Use of Wave Watch III' Module.	ACAD	2060	*	ACAD	2060					2000, 2003, 2004	-
Complete 'Introduction to Ocean Models' Module.	ACAD	2061	*	ACAD	2061					2000, 2003, 2004	-
Complete 'MCI 045D The Logistics/Embarkation Specialist' course.	ACAD	2062	*	ACAD	2062					-	-
Complete 'MCI 2525B Communications Security' course.	ACAD	2063	*	ACAD	2063					-	-
Complete 'Topics in Tropical Meteorology' Module.	ACAD	2070	*	ACAD	2070					2000, 2003, 2004	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module.	ACAD	2071	*	ACAD	2071					2000, 2003, 2004, 2070	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' Module.	ACAD	2072	*	ACAD	2072					2000, 2003, 2004, 2070, 2071	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 3: Global Circulation' Module.	ACAD	2073	*	ACAD	2073					2000, 2003, 2004, 2070, 2071, 2072	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module.	ACAD	2074	*	ACAD	2074					2000, 2003, 2004, 2070, 2071, 2072, 2073	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture and Precipiation' Module.	ACAD	2075	*	ACAD	2075					2000, 2003, 2004, 2070, 2071, 2072, 2073, 2074	-
Complete 'Conceptual Models of Tropical Waves' Module.	ACAD	2076	*	ACAD	2076					2000, 2003, 2004	-
Complete 'Polar Satellite Products for the Operational Forecaster: Microwave Analysis of Tropical Cyclones' Module.	ACAD	2077	*	ACAD	2077					2000, 2003, 2004	-
Complete 'Wave Types and Characteristics' Module.	ACAD	2078	*	ACAD	2078					2000, 2003, 2004	-

Complete 'Rip Currents: Nearshore Fundamentals' Module.	ACAD	2079	*	ACAD	2079					2000, 2003, 2004, 2078	-
Complete 'Shallow-Water Waves' Module.	ACAD	2080	*	ACAD	2080					2000, 2003, 2004	-
Complete 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module.	ACAD	2081	*	ACAD	2081					2000, 2003, 2004	-
Complete 'Systems Approach to Training (SAT)' course.	ACAD	2082	*	ACAD	2082					-	-
Complete 'MCI 0131K Correspondence Procedures' course.	ACAD	2083	*	ACAD	2083					-	-
Complete 'Target Acquisitions Weapons Software (TAWS) Primer' resident course.	ACAD	2090	*	ACAD	2090					-	-
Complete 'Advanced Refractive Effects Prediction System (AREPS) Primer' resident course.	ACAD	2091	*	ACAD	2091					-	-
Complete 'MCI 0416B The Marine Corps Publications and Directives System' course.	ACAD	2100	*	ACAD	2100					-	-
Complete 'MCI 5803 Physical Security Specialist' course	ACAD	2101	*	ACAD	2101					-	-
Complete 'Introduction to the Total Force Structure Management System (TFSMS)' course.	ACAD	2102	*	ACAD	2102					-	-
Complete 'Total Force Structure Management System - Basic User Training' course.	ACAD	2103	*	ACAD	2103					-	-
Complete 'Records Management (Department of the Navy): Advanced Topics' course.	ACAD	2104	*	ACAD	2104					-	-
Complete 'CLR 101 Introduction to Joint Capabilities Integration and Development System (JCIDS)' course.	ACAD	2105	*	ACAD	2105					-	-
Complete 'ACQ 101 Fundamentals of Systems Acquisition Management' course	ACAD	2106	*	ACAD	2106					-	-
Complete 'Security Policy and Procedures' course.	ACAD	2107	*	ACAD	2107					-	-
Complete 'General Admin Naval Messages' course.	ACAD	2108	*	ACAD	2108					-	-
Complete 'Department of the Navy, Office of Budget: Fiscal Law Refresher Training' course.	ACAD	2109	*	ACAD	2109					-	-
State and discuss the elements of a METAR surface observation.	MSO	2200	*	MSO	2200					2000, 2001, 2002, 2055, 2056	-
State the criteria for a SPECI surface observation.	MSO	2201	*	MSO	2201					2000, 2001, 2002, 2055, 2056, 2200	-
Compute meteorological values.	MSO	2202	*	MSO	2202					2000, 2001, 2002, 2055, 2056, 2200	-
Decode surface/ship synoptic observations.	MSO	2203	365	MSO	2203	MSO	2203	MSO	2203	2000, 2001, 2002, 2200, 2201	-
State and discuss the elements of a Terminal Aerodrome Forecast (TAF).	MSO	2204	*	MSO	2204					2000	-
Decode a Terminal Aerodrome Forecast (TAF).	MSO	2205	365	MSO	2205	MSO	2205	MSO	2205	2000, 2204	-
Define the criteria for setting weather warnings, watches, and advisories.	MSO	2206	*	MSO	2206					2000	-
Decode upper air messages.	UAS	2250	365	UAS	2250	UAS	2250	UAS	2250	2000, 2001	-

Analyze a Skew-T Log P diagram.	UAS	2251	365	UAS	2251	UAS	2251	UAS	2251	2001, 2250	-
Identify the components of an upper-air sensor and upper-air sensing equipment.	UAS	2252	*	UAS	2252					2001	-
Define and state the difference between civil, nautical, and astronomical twilight.	ATD	2300	*	ATD	2300					2000	-
State the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.	ATD	2301	*	ATD	2301					2000, 2300	-
Identify and define local area policies and procedures.	FAM	2350	*	FAM	2350					-	-
Operate handheld meteorological devices.	EQPT	2400	180	EQPT	2400	EQPT	2400	EQPT	2400	2000	-
Operate a handheld GPS device.	EQPT	2401	1460	EQPT	2401	EQPT	2401	EQPT	2401	-	-
Operate the Meteorological Radar Subsystem (MRS).	EQPT	2402	365	EQPT	2402	EQPT	2402	EQPT	2402	-	-
Operate the Meteorological Satellite Subsystem (MSS).	EQPT	2403	365	EQPT	2403	EQPT	2403	EQPT	2403	-	-
Operate the Communications Subsystem (CSS).	EQPT	2404	365	EQPT	2404	EQPT	2404	EQPT	2404	-	-
Operate the Local Subsystem (LSS).	EQPT	2405	365	EQPT	2405	EQPT	2405	EQPT	2405	-	-
Operate the Remote Subsystem (RSS).	EQPT	2406	365	EQPT	2406	EQPT	2406	EQPT	2406	-	-
Operate the Upper Air Subsystem (UAS).	EQPT	2407	365	EQPT	2407	EQPT	2407	EQPT	2407	2252	-
Describe principles of atmospheric physics.	AMS	2500	*	AMS	2500					2003, 2004	-
Describe principles of atmospheric dynamics.	AMS	2501	*	AMS	2501					2003, 2004, 2500	-
Describe atmospheric fundamentals.	AMS	2502	*	AMS	2502					2003, 2004, 2017, 2018, 2019, 2020, 2026, 2500, 2501	-
State the use of graphical METOC products.	AMS	2503	*	AMS	2503					2003, 2004, 2027, 2028, 2029, 2030, 2031, 2033, 2055, 2056, 2500, 2501, 2502	-
Initialize and verify meteorological model output.	MDA	2550	*	MDA	2550					2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503	-
Analyze and interpret a thickness chart or thickness model.	MDA	2551	365	MDA	2551	MDA	2551	MDA	2551	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550	-
Analyze and interpret a vorticity chart or vorticity model.	MDA	2552	365	MDA	2552	MDA	2552	MDA	2552	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550	-
Analyze and interpret upper atmospheric weather charts.	MDA	2553	365	MDA	2553	MDA	2553	MDA	2553	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-
Analyze and interpret a surface weather chart.	MDA	2554	365	MDA	2554	MDA	2554	MDA	2554	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-
Analyze meteorological features on satellite imagery.	MDA	2555	365	MDA	2555	MDA	2555	MDA	2555	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503	-
Analyze meteorological features on radar products.	MDA	2556	365	MDA	2556	MDA	2556	MDA	2556	2003, 2004, 2022, 2023, 2024, 2025, 2027, 2028, 2054, 2500, 2501, 2502, 2503	-
Forecast macro/synoptic scale features.	METF	2600	*	METF	2600					2003, 2004, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-

Develop synoptic scale forecast using prognosis techniques.	METF	2601	365	METF	2601	METF	2601	METF	2601	2003, 2004, 2019, 2020, 2055, 2056, 2551, 2552, 2553, 2554, 2600	-
Forecast local area (mesoscale/microscale) meteorological elements and phenomenon.	METF	2602	*	METF	2602					2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-
Forecast severe weather.	METF	2603	*	METF	2603					2003, 2004, 2022, 2023, 2024, 2025, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2600	-
Brief synoptic chart set.	MPB	2650	*	MPB	2650	MPB	2650			2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2600, 2601, 2602	-
Demonstrate proficiency in completing a flight weather briefing (DD 175-1).	MPB	2651	365	MPB	2651	MPB	2651	MPB	2651	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-
Understand the fundamentals of Communications.	COMM	2700	*	COMM	2700					-	-
Operate HF man-pack communications equipment.	COMM	2701	365	COMM	2701	COMM	2701	COMM	2701	2700	-
Operate intra-team communications equipment.	COMM	2702	365	COMM	2702	COMM	2702	COMM	2702	2700	-
Operate UHF/VHF/SATCOM man-pack communications equipment.	COMM	2703	365	COMM	2703	COMM	2703	COMM	2703	2700	-
Describe proper handling and storage of classified materials.	COMM	2704	*	COMM	2704	COMM	2704			-	-
Plan physical security for classified areas.	COMM	2705	*	COMM	2705	COMM	2705			-	-
Extract key material information from EKMS callout.	COMM	2706	*	COMM	2706	COMM	2706			2704	-
Operate a common fill device (CFD).	COMM	2707	365	COMM	2707	COMM	2707	COMM	2707	2704, 2705, 2706	-
Demonstrate an understanding of METOC's role in the Marine Corps Planning Process (MCPP).	MDN	2750	*	MDN	2750					-	-
Describe US Marine Corps' (USMC) METOC doctrine, organization, core capabilities and operations.	MDN	2751	*	MDN	2751					-	-
Draft a response to a MCATS Task Workflow.	ADM	2800	*	ADM	2800					2057, 2058, 2059, 2083	-
Demonstrate an understanding of the Total Force Structure Management System (TFSMS).	ADM	2801	*	ADM	2801					2102, 2103	-
Draft an annual budget and mid-/end of year review submissions for the METOC section.	ADM	2802	*	ADM	2802					2109, 2853	-
Describe the JCIDS as it relates to Marine Corps METOC.	ADM	2803	*	ADM	2803					2105	-
Draft a Table of Organization and Equipment (TO&E) Change Request (TOECR).	ADM	2804	*	ADM	2804					2102, 2103, 2801	-
Describe the Marine Corps Readiness Inspections and Assessments program.	ADM	2805	*	ADM	2805					-	-

Describe the Marine Corps Force Development System (MCFDS)/Expeditionary Force Development System (EFDS).	ADM	2806	*	ADM	2806					2105, 2106	-
Define the Fleet Assistance Program (FAP).	ADM	2807	*	ADM	2807					-	-
Draft a Universal Needs Statement (UNS).	ADM	2808	*	ADM	2808					2105, 2106, 2806	-
Draft an Urgent Operational Needs (UONs).	ADM	2809	*	ADM	2809					2105, 2106, 2806, 2808	-
Describe the Marine Corps Action Tracking System (MCATS).	ADM	2810	*	ADM	2810					-	-
Identify the embarkation requirements for the METOC section.	MGT	2850	*	MGT	2850					2062, 2101	-
State the key elements of an OPORDER and discuss how they relate to METOC support.	MGT	2851	*	MGT	2851					-	-
State the METOC products and services required for operational decision-making and joint operations.	MGT	2852	*	MGT	2852					-	-
Describe the Fiscal/Budget process within the Marine Corps as it relates to the METOC section.	MGT	2853	*	MGT	2853					2109	-
State the purpose of the Service and Joint Task Lists.	MGT	2854	*	MGT	2854					-	-
State management techniques of METOC resources.	MGT	2855	*	MGT	2855					-	-
State the purpose of a METOC sensing strategy.	MGT	2856	*	MGT	2856					-	-
State the purpose of the quality control program.	MGT	2857	*	MGT	2857					-	-
State the elements of a surf observation.	LFA	2900	*	LFA	2900					2000, 2003, 2004, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3100, 3151	-
State the physical METOC effect on the land domain and how they affect operations.	MIA	2950	*	MIA	2950					-	-
State the physical METOC effect on the maritime domain and how they affect operations.	MIA	2951	*	MIA	2951					-	-
State the physical METOC effect on the air domain and how they affect operations.	MIA	2952	*	MIA	2952					-	-
State the physical METOC effect on the space domain and how they affect operations.	MIA	2953	*	MIA	2953					2053, 3007, 3008, 3009, 3010, 3011	-
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		
Complete 'METOC Support for Strike Warfare' resident course.	ACAD	3000	*	ACAD	3000					2090, 2091	-
Complete 'METOC Support for Amphibious Warfare' resident course.	ACAD	3001	*	ACAD	3001					-	-
Complete 'METOC Support for Combat Search and Rescue/ Search and Rescue (CSAR/SAR)' resident course.	ACAD	3002	*	ACAD	3002					-	-

Complete 'Littoral Oceanography' resident course.	ACAD	3003	*	ACAD	3003					-	-
Complete 'Mobile Environmental Team Primer' resident course.	ACAD	3004	*	ACAD	3004					-	-
Complete 'Mobile Environmental Team Trainer' resident course.	ACAD	3005	*	ACAD	3005					3004	-
Complete 'METOC Support for Air Defense, Surface Warfare, and Information Warfare (AD, SW, IW)' resident course.	ACAD	3006	*	ACAD	3006					2091	-
Complete 'Space Weather Impacts on Aviation' module.	ACAD	3007	*	ACAD	3007					2053	-
Complete 'Space Weather - Layers of the Sun' module.	ACAD	3008	*	ACAD	3008					2053	-
Complete 'Space Weather – Active Regions' module.	ACAD	3009	*	ACAD	3009					2053	-
Complete 'Solar X-Ray Flares & HF Communications' module.	ACAD	3010	*	ACAD	3010					2053	-
Complete 'Equatorial Scintillation and UHF SATCOM' module.	ACAD	3011	*	ACAD	3011					2053	-
Complete 'Applied Environmental Sciences' (AES) Course.	ACAD	3020	*	ACAD	3020					-	-
Complete 'METOC Impacts Analyst Course (MIAC)' course	ACAD	3021	*	ACAD	3021					3020	-
Complete 'Riverine Analysis and Forecasting Course' resident course.	ACAD	3022	*	ACAD	3022					2046, 2047, 2051	-
Complete 'METOC Support for Chemical, Biological, Radiological, and Nuclear Environment (CBRNE)' resident course.	ACAD	3023	*	ACAD	3023					-	-
Complete 'METOC Support for Naval Special Warfare (NSW)' resident course.	ACAD	3024	*	ACAD	3024					-	-
Complete 'Tactical Forecasting for Naval Special Warfare (NSW)' resident course.	ACAD	3025	*	ACAD	3025					-	-
Complete 'OA Division Tactical Team (OATT) Trainer: Basic' resident course.	ACAD	3026	*	ACAD	3026					-	-
Complete 'OA Division Tactical Team (OATT) Trainer: Intermediate' resident course.	ACAD	3027	*	ACAD	3027					-	-
Complete 'OA Division Tactical Team (OATT) Trainer: Advanced' resident course.	ACAD	3028	*	ACAD	3028					-	-
Complete 'RQM 110 Core Concepts for Requirements Management' course.	ACAD	3029	*	ACAD	3029					2105	-
Complete 'SYS 101 Fundamentals of Systems Planning, Research, Development, and Engineering' course.	ACAD	3030	*	ACAD	3030					2106	-
Complete 'CLB 007 Cost Analysis' course.	ACAD	3031	*	ACAD	3031					-	-
Complete 'CLV 016 or CLB 016 Introduction to Earned Value Management' course.	ACAD	3032	*	ACAD	3032					-	-

Complete 'ACQ 201A Intermediate Systems Acquisition, Part A' course.	ACAD	3033	*	ACAD	3033					-	-
Conduct a surface meteorological observation.	MSO	3100	365	MSO	3100	MSO	3100	MSO	3100	2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202	-
Encode and disseminate a pilot weather report (PIREP).	MSO	3102	365	MSO	3102	MSO	3102	MSO	3102	2000	-
Produce astronomical data.	ATD	3150	365	ATD	3150	ATD	3150	ATD	3150	2000, 2300, 2301	-
Produce tidal data.	ATD	3151	180	ATD	3151	ATD	3151	ATD	3151	2000, 2003, 2004, 2048	-
Operate the Automated Surface Observing System (ASOS).	EQPT	3200	365	EQPT	3200	EQPT	3200	EQPT	3200	-	-
Operate garrison METOC equipment in order to provide support to base operations.	EQPT	3201	365	EQPT	3201	EQPT	3201	EQPT	3201	-	-
Conduct management operations for the meteorological radar system.	EQPT	3202	365	EQPT	3202	EQPT	3202	EQPT	3202	2402	-
Conduct a recon, selection, and occupation of position (RSOP) for METOC equipment.	EQPT	3203	180	EQPT	3203	EQPT	3203	EQPT	3203	-	-
Setup or assist with the setup of the AN/UMK-4(v)4, TESS/NITES.	EQPT	3204	180	EQPT	3204	EQPT	3204	EQPT	3204	-	-
Operate the AN/UMK-4(v)4 TESS/NITES.	EQPT	3205	180	EQPT	3205	EQPT	3205	EQPT	3205	-	
Pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.	EQPT	3206	180	EQPT	3206	EQPT	3206	EQPT	3206	-	-
Setup surface meteorological sensing systems.	EQPT	3207	365	EQPT	3207	EQPT	3207	EQPT	3207	-	-
Pack the surface meteorological sensing system.	EQPT	3208	365	EQPT	3208	EQPT	3208	EQPT	3208	-	-
Setup the meteorological radar subsystem for integrated operations.	EQPT	3209	365	EQPT	3209	EQPT	3209	EQPT	3209	-	-
Pack the meteorological radar subsystem.	EQPT	3210	365	EQPT	3210	EQPT	3210	EQPT	3210	-	-
Setup the meteorological satellite subsystem.	EQPT	3211	365	EQPT	3211	EQPT	3211	EQPT	3211	-	-
Pack the meteorological satellite subsystem.	EQPT	3212	365	EQPT	3212	EQPT	3212	EQPT	3212	-	-
Setup the meteorological upper air subsystem for integrated operations.	EQPT	3213	365	EQPT	3213	EQPT	3213	EQPT	3213	-	-
Pack the meteorological upper air subsystem.	EQPT	3214	365	EQPT	3214	EQPT	3214	EQPT	3214	-	-
Setup the meteorological communication subsystem.	EQPT	3215	365	EQPT	3215	EQPT	3215	EQPT	3215	-	-
Pack the meteorological communication subsystem.	EQPT	3216	365	EQPT	3216	EQPT	3216	EQPT	3216	-	-
Setup the meteorological product generation and dissemination subsystem.	EQPT	3217	365	EQPT	3217	EQPT	3217	EQPT	3217	-	-
Pack the meteorological product generation and dissemination subsystem.	EQPT	3218	365	EQPT	3218	EQPT	3218	EQPT	3218	-	-
Operate the AN/TMQ-56 METMF(R) NEXGEN.	EQPT	3219	365	EQPT	3219	EQPT	3219	EQPT	3219	2402, 2403, 2404, 2405, 2406, 2407, 3202, 3207, 3209, 3211, 3213, 3215, 3217	-

Produce a Terminal Aerodrome Forecast (TAF).	METF	3250	365	METF	3250	METF	3250	METF	3250	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3300, 3303	-
Produce a limited data forecast.	METF	3251	365	METF	3251	METF	3251	METF	3251	2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-
Produce a flight weather packet.	MPB	3300	365	MPB	3300	MPB	3300	MPB	3300	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056	-
Brief a flight weather briefing (DD 175-1).	MPB	3301	365	MPB	3301	MPB	3301	MPB	3301	2601	-

Produce a 96-hour graphical METOC brief.	MPB	3302	180	MPB	3302	MPB	3302	MPB	3302	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3250	-
Generate and conduct a climatology brief.	MPB	3303	365	MPB	3303	MPB	3303	MPB	3303	2003, 2004, 2036, 2042	-
Conduct an aviation strike brief.	MPB	3304	*	MPB	3304	MPB	3304			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Conduct an aviation assault brief.	MPB	3305	*	MPB	3305	MPB	3305			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Conduct an amphibious warfare brief.	MPB	3306	*	MPB	3306	MPB	3306			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Conduct a Search and Rescue (SAR) brief.	MPB	3307	*	MPB	3307	MPB	3307			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Compute Modified Surf Index (MSI).	LFA	3350	180	LFA	3350	LFA	3350	LFA	3350	2900, 3151	-
Create a surf forecast.	LFA	3351	180	LFA	3351	LFA	3351	LFA	3351	2900, 3151, 3350	-
Produce METOC impacts on command, control, and communication (C3) operations.	MIA	3400	365	MIA	3400	MIA	3400	MIA	3400	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-
Produce METOC impacts on MAGTF operations.	MIA	3401	365	MIA	3401	MIA	3401	MIA	3401	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-
Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.	MIA	3402	365	MIA	3402	MIA	3402	MIA	3402	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011, 3401	-

Deploy a METOC section in support of unit operations.	MGT	3450	365	MGT	3450	MGT	3450	MGT	3450	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3500	-
Manage METOC Operations in support of unit exercise or deployment.	MGT	3451	365	MGT	3451	MGT	3451	MGT	3451	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3450, 3500	-
Submit input to annexes of operational orders.	MPC	3500	*	MPC	3500					2057, 2058, 2059	-
Demonstrate an understanding of how METOC integrates into the JIPOE.	MPC	3501	1095	MPC	3501	MPC	3501	MPC	3501	2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088	-
Demonstrate an understanding of METOC integration into JOPES.	MPC	3502	*	MPC	3502					2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088	-
Demonstrate an understanding of how METOC integrates into the JOPP.	MPC	3503	*	MPC	3503					2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088	-
Conduct METOC support for Intelligence Operations.	MPC	3505	*	MPC	3505					3501	-
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	-	-
Complete 'Mediterranean Forecast Course' resident course.	ACAD	4000	*	ACAD	4000					-	-
Complete 'Central Command (CENTCOM) AOR Forecasting' resident course.	ACAD	4001	*	ACAD	4001					-	-
Complete 'METOC Forecasting for COMSEVENTHFLT AOR' resident course.	ACAD	4002	*	ACAD	4002					-	-

Complete 'Senior METOC Officer Afloat (SMOA) Course' resident course.	ACAD	4010	*	ACAD	4010					-	-
Complete 'RQM 310, Advanced Concepts for Requirements Management' resident course.	ACAD	4011	*	ACAD	4011					2105, 3029	-
Complete 'ACQ 201B Intermediate Systems Acquisition, Part B' resident course.	ACAD	4012	*	ACAD	4012					2106, 3033	-
Complete 'PMT 251 Program Management Tools Course, Part I' course.	ACAD	4013	*	ACAD	4013					2106, 3033, 4012	-
Complete 'PMT 257 Program Management Tools Course, Part II' course.	ACAD	4014	*	ACAD	4014					2106, 3033, 4012, 4013	-
Complete 'CON 121 Contract Planning' course.	ACAD	4015	*	ACAD	4015					-	-
Complete 'CON 124 Contract Execution' course.	ACAD	4016	*	ACAD	4016					4015	-
Complete 'CON 127 Contract Management' course.	ACAD	4017	*	ACAD	4017					4015, 4016	-
Complete 'EVM 101 Fundamentals of Earned Value Management' course.	ACAD	4018	*	ACAD	4018					2106	-
Complete 'IRM 101 Basic Information Systems Acquisition' course.	ACAD	4019	*	ACAD	4019					2106	-
Complete 'EVM 101 or BCF 102 Fundamentals of Earned Value Management' course.	ACAD	4020	*	ACAD	4020					2106	-
Complete 'Lean Six Sigma White Belt' course.	ACAD	4021	*	ACAD	4021					-	-
Complete 'Lean Six Sigma Yellow Belt' course	ACAD	4022	*	ACAD	4022					4021	-

Complete 'Joint METOC Officer' resident course.	ACAD	4030	*	ACAD	4030					2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067	-
Demonstrate an understanding of the key concepts of interagency operations.	MDN	4200	*	MDN	4200					-	-
State the METOC organization within the US Africa Command (AFRICOM).	MDN	4201	*	MDN	4201	MDN	4201			-	-

State the METOC organization within the US Central Command (USCENTCOM).	MDN	4202	*	MDN	4202	MDN	4202			-	-
State the METOC organization within the US European Command (EUCOM).	MDN	4203	*	MDN	4203	MDN	4203			-	-
State the METOC organization within the US Northern Command (USNORTHCOM) and North American Aerospace Defense Command (NORAD).	MDN	4204	*	MDN	4204	MDN	4204			-	-
State the METOC organization within the US Pacific Command (USPACOM).	MDN	4205	*	MDN	4205	MDN	4205			-	-
State the METOC organization within the US Southern Command (USSOUTHCOM).	MDN	4206	*	MDN	4206	MDN	4206			-	-
State the METOC organization within the US Special Operations Command (USSOCOM).	MDN	4207	*	MDN	4207	MDN	4207			-	-
State the METOC organization within the US Strategic Command (USSTRATCOM).	MDN	4208	*	MDN	4208	MDN	4208			-	-
State the METOC organization within the US Transportation Command (USTRANSCOM).	MDN	4209	*	MDN	4209	MDN	4209			-	-
Develop an embarkation program within the METOC section.	MGT	4250	1095	MGT	4250	MGT	4250	MGT	4250	2062, 2101	-
Conduct of a Functional Area 890 Inspection in support of the Unit Inspection Program (UIP).	MGT	4251	*	MGT	4251	MGT	4251			2805	-
Organize METOC resources into a functional joint METOC organization within a new Joint Task Force (JTF).	MGT	4252	*	MGT	4252	MGT	4252			-	-
Describe the application of Continuous Process Improvement (CPI) concepts in relation to METOC support operations.	MGT	4253	*	MGT	4253	MGT	4253			4021, 4022	-
Perform System Administration.	MGT	4254	1095	MGT	4254	MGT	4254	MGT	4254	-	-
Conduct MMT assault landing zone (ALZ) Operations.	MMTM	4300	*	MMTM	4300					-	-
Conduct MMT Helicopter Landing Zone (HLZ) Operations.	MMTM	4301	*	MMTM	4301					-	-
Conduct MMT land navigation operations.	MMTM	4302	*	MMTM	4302	MMTM	4302			-	-
Collect assault zone survey data using equipment organic to the MMT.	MMTM	4303	730	MMTM	4303	MMTM	4303	MMTM	4303	2401, 4305, 4306	-
Perform as a METOC MMT Member during operational planning.	MMTM	4304	1460	MMTM	4304	MMTM	4304	MMTM	4304	2401, 2701, 2702, 2703, 2704, 2705, 2706, 2707	-
Operate the Dynamic Cone Penetrometer (DCP).	MMTM	4305	*	MMTM	4305	MMTM	4305			-	-
Operate the Laser Range Finder (LRF).	MMTM	4306	*	MMTM	4306	MMTM	4306			-	-

3.18 T&R SYLLABUS MATRIX

METOC (6802) T&R SYLLABUS MATRIX																			
STAGE	EVENT				DEVICE					GROUND/ ACADEMIC EVENTS		SIM EVENTS		LIVE EVENTS					
	CODE	TITLE	POI	E	TYPE	#	OPTION	COND	REFLY	#	TIME	#	TIME	#	TIME	PREREQ	NOTES	CHAIN	EVENT CONV
CORE SKILL TRAINING (2000 PHASE EVENTS)																			
ACADEMIC SKILLS (ACAD) STAGE																			
ACAD	2000	Complete 'Aerographer's Mate Third Class METOC Training Manual (AG3)' Module.	B	E	G	-	-	-	*		3.0		0		0	-	-	-	2000
ACAD	2001	Complete 'Skew-T Mastery' Module.	B	E	G	-	-	-	*		3.0		0		0	2000	-	-	2001
ACAD	2002	Complete 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module.	B	E	G	-	-	-	*		2.0		0		0	2000	-	-	2002
ACAD	2003	Complete 'Aerographer's Mate Second Class (AG2) Vol I METOC Training Manual' Module.	B	E	G	-	-	-	*		10.0		0		0	2000	-	-	2048
ACAD	2004	Complete 'Aerographer's Mate Second (AG2) Class Vol II METOC Training Manual' Module.	B	E	G	-	-	-	*		40.0		0		0	2000, 2003	-	-	2049
ACAD	2005	Complete 'Forecasting Radiation Fog' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2003
ACAD	2006	Complete 'Dynamically Forced Fog' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2004
ACAD	2007	Complete 'Local Influences on Fog and Low Stratus' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2005
ACAD	2008	Complete 'Thermally-Forced Circulation I: Sea Breezes' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2006
ACAD	2009	Complete 'Thermally-Forced Circulation II: Mountain Valley Winds' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2008	-	-	2007

ACAD	2010	Complete 'Cold Air Damming' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2008
ACAD	2011	Complete 'Coastally Trapped Wind Reversals' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2009
ACAD	2012	Complete 'Gap Winds' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2010
ACAD	2013	Complete 'Flow Interaction with Topography' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2011
ACAD	2014	Complete 'Mountain Waves and Downslope Winds' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2012
ACAD	2015	Complete 'Atmospheric Dust' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2013
ACAD	2016	Complete 'Forecasting Dust Storms Version 2' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2015	-	-	2014
ACAD	2017	Complete 'Low-Level Coastal Jets' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2015
ACAD	2018	Complete 'Jet Streak Circulations' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2016
ACAD	2019	Complete 'Vorticity Maxima and Comma Patterns' Module.	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2017
ACAD	2020	Complete 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module.	B	E	G	-	-	-	*		0.4		0		0	2000, 2003, 2004	-	-	2018
ACAD	2021	Complete 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module.	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2019
ACAD	2022	Complete 'Principles of Convection I: Buoyancy and CAPE' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2020
ACAD	2023	Complete 'Principles of Convection II: Using Hodographs' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2022	-	-	2021
ACAD	2024	Complete 'Principles of Convection III: Shear and Convective Storms' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2022, 2023	-	-	2022

ACAD	2025	Complete 'Lectures on Radar Applications in Mesoscale Meteorology' Module.	B	E	G	-	-	-	*		8.0		0		0	2000, 2003, 2004	-	-	2023
ACAD	2026	Complete 'Landfalling Fronts and Cyclones' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2024
ACAD	2027	Complete 'How Mesoscale Models Work' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2025
ACAD	2028	Complete 'Definition of the Mesoscale' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2026
ACAD	2029	Complete 'Introduction to Ensemble Prediction' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2027
ACAD	2030	Complete 'Ten Common NWP Misconceptions' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2028
ACAD	2031	Complete 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module	B	E	G	-	-	-	*		5.0		0		0	2000, 2003, 2004	-	-	2029
ACAD	2032	Complete 'Mesoscale Banded Precipitation' Module.	B	E	G	-	-	-	*		4.0		0		0	2000, 2003, 2004	-	-	2030
ACAD	2033	Complete 'Intelligent Use of Model-Derived Products –Version 2' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2031
ACAD	2034	Complete 'Effective Use of NWP in the Forecast Process: Introduction' Module	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2032
ACAD	2035	Complete 'Influence of Model Physics on NWP Forecasts-Version 2' Module.	B	E	G	-	-	-	*		1.5		0		0	2000, 2003, 2004	-	-	2041
ACAD	2036	Complete 'Introduction to Climatology' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2042
ACAD	2037	Complete 'Isentropic Analysis' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2043
ACAD	2038	Complete 'PBL in Complex Terrain - Part 1' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2044
ACAD	2039	Complete 'PBL in Complex Terrain – Part 2' Module.	B	E	G	-	-	-	*		1.2		0		0	2000, 2003, 2004, 2038	-	-	2045

ACAD	2040	Complete 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2046
ACAD	2041	Complete 'Forecasting Aviation Icing: Icing Type and Severity' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2047
ACAD	2042	Complete 'Writing Effective TAFS' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3000
ACAD	2043	Complete 'Writing TAFS for Convective Weather' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2042	-	-	3001
ACAD	2044	Complete 'Writing TAFS for Winds and LLWS' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004, 2042, 2043	-	-	3002
ACAD	2045	Complete 'Writing TAFs for Ceiling and Visibility' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2042	-	-	3003
ACAD	2046	Complete 'Introduction to Distributed Hydrologic Modeling' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	3004
ACAD	2047	Complete 'Understanding the Hydrologic Cycle' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3005
ACAD	2048	Complete 'Introduction to Ocean Tides' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3012
ACAD	2049	Complete 'Rip Currents: Forecasting' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3013
ACAD	2050	Complete 'Introduction to Ocean Currents' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3014
ACAD	2051	Complete 'Introduction to the Verification of Hydrologic Forecasts' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2046, 2047	-	-	3017
ACAD	2052	Complete 'Unit Hydrograph Theory' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3018
ACAD	2053	Complete 'Space Weather Basics' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	-
ACAD	2055	Complete 'Basics of Visisbile and Infrared Remote Sensing' Module.	B	E	G	-	-	-	*		2.0		0		0	2000	-	-	-
ACAD	2056	Complete 'Microwave Remote Sensing: Clouds, Precipitation, and Water	B	E	G	-	-	-	*		2.0		0		0	2003, 2004, 2055	-	-	-

		Vapor' Module.																	
ACAD	2057	Complete 'MCI 0118K Spelling' course.	B	E	G	-	-	-	*		10.0		0		0	-	-	-	-
ACAD	2058	Complete 'MCI 0119H Punctuation' course.	B	E	G	-	-	-	*		6.0		0		0	-	-	-	-
ACAD	2059	Complete 'MCI 0120 Basic Grammar and Composition' course.	B	E	G	-	-	-	*		7.0		0		0	-	-	-	-
ACAD	2060	Complete 'Operational Use of Wave Watch III' Module.	B	E	G	-	-	-	*		1.5		0		0	2000, 2003, 2004	-	-	3006
ACAD	2061	Complete 'Introduction to Ocean Models' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3009
ACAD	2062	Complete 'MCI 045D The Logistics/Embarkation Specialist' course.	B	E	G	-	-	-	*		12.0		0		0	-	-	-	-
ACAD	2063	Complete 'MCI 2525B Communications Security' course.	B	E	G	-	-	-	*		4.0		0		0	-	-	-	-
ACAD	2070	Complete 'Topics in Tropical Meteorology' Module.	B	E	G	-	-	-	*		0.3		0		0	2000, 2003, 2004	-	-	2033
ACAD	2071	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2070	-	-	2034
ACAD	2072	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2070, 2071	-	-	2035
ACAD	2073	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 3: Global Circulation' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2070, 2071, 2072	-	-	2036
ACAD	2074	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004, 2070, 2071, 2072, 2073	-	-	2037
ACAD	2075	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2070, 2071, 2072, 2073, 2074	-	-	2038

		and Precipiation' Module.																	
ACAD	2076	Complete 'Conceptual Models of Tropical Waves' Module.	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2039
ACAD	2077	Complete 'Polar Satellite Products for the Operational Forecaster: Microwave Analysis of Tropical Cyclones' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2040
ACAD	2078	Complete 'Wave Types and Characteristics' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	3007
ACAD	2079	Complete 'Rip Currents: Nearshore Fundamentals' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2078	-	-	3008
ACAD	2080	Complete 'Shallow-Water Waves' Module.	B	E	G	-	-	-	*		1.5		0		0	2000, 2003, 2004	-	-	3010
ACAD	2081	Complete 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module.	B	E	G	-	-	-	*		0.6		0		0	2000, 2003, 2004	-	-	3011
ACAD	2082	Complete 'Systems Approach to Training (SAT)' course.	B	E	G	-	-	-	*		7.0		0		0	-	-	-	-
ACAD	2083	Complete 'MCI 0131K Correspondence Procedures' course.	B	E	G	-	-	-	*		7.0		0		0	-	-	-	-
ACAD	2090	Complete 'Target Acquisitions Weapons Software (TAWS) Primer' resident course.	B	E	G	-	-	-	*		8.0		0		0	-	-	-	4003
ACAD	2091	Complete 'Advanced Refractive Effects Prediction System (AREPS) Primer' resident course.	B	E	G	-	-	-	*		16.0		0		0	-	-	-	4004
ACAD	2100	Complete 'MCI 0416B The Marine Corps Publications and Directives System' course.	B	E	G	-	-	-	*		12.0		0		0	-	-	-	-
ACAD	2101	Complete 'MCI 5803 Physical Security Specialist' course	B	E	G	-	-	-	*		9.0		0		0	-	-	-	-

ACAD	2102	Complete 'Introduction to the Total Force Structure Management System (TFSMS)' course.	B	E	G	-	-	-	*		4.0		0		0	-	-	-	-
ACAD	2103	Complete 'Total Force Structure Management System - Basic User Training' course.	B	E	G	-	-	-	*		7.0		0		0	-	-	-	-
ACAD	2104	Complete 'Records Management (Department of the Navy): Advanced Topics' course.	B	E	G	-	-	-	*		1.0		0		0	-	-	-	-
ACAD	2105	Complete 'CLR 101 Introduction to Joint Capabilities Integration and Development System (JCIDS)' course.	B	E	G	-	-	-	*		3.5		0		0	-	-	-	-
ACAD	2106	Complete 'ACQ 101 Fundamentals of Systems Acquisition Management' course	B	E	G	-	-	-	*		25.5		0		0	-	-	-	-
ACAD	2107	Complete 'Security Policy and Procedures' course.	B	E	G	-	-	-	*		1.0		0		0	-	-	-	-
ACAD	2108	Complete 'General Admin Naval Messages' course.	B	E	G	-	-	-	*		1.0		0		0	-	-	-	-
ACAD	2109	Complete 'Department of the Navy, Office of Budget: Fiscal Law Refresher Training' course.	B	E	G	-	-	-	*		5.0		0		0	-	-	-	-
TOTAL ACADEMIC SKILLS (ACAD) STAGE										92	320.0	0	0	0	0				
METEOROLOGICAL SURFACE OBSERVATION (MSO) STAGE																			
MSO	2200	State and discuss the elements of a METAR surface observation.	B	E	G	-	-	-	*		2.0		0		0	2000, 2001, 2002, 2055, 2056	-	-	2400
MSO	2201	State the criteria for a SPECI surface observation.	B	E	G	-	-	-	*		1.0		0		0	2000, 2001, 2002, 2055, 2056, 2200	-	-	-
MSO	2202	Compute meteorological values.	B	E	L	-	-	-	*		0		0		2.0	2000, 2001, 2002, 2055, 2056, 2200	-	-	2401
MSO	2203	Decode surface/ship synoptic observations.	B,R,M	E	L	-	-	-	365		0		0		1.0	2000, 2001, 2002, 2200, 2201	-	-	-
MSO	2204	State and discuss the elements of a Terminal	B	E	G	-	-	-	*		2.0		0		0.0	2000	-	-	-

		Aerodrome Forecast (TAF).																	
MSO	2205	Decode a Terminal Aerodrome Forecast (TAF).	B,R,M	E	L	-	-	-	365		0		0		0.5	2000, 2204	-	-	-
MSO	2206	Define the criteria for setting weather warnings, watches, and advisories.	B	E	G	-	-	-	*		1.0		0		0.0	2000	-	-	2900
TOTAL METEOROLOGICAL SURFACE OBSERVATION (MSO) STAGE										4	6.0	0	0	3	3.5				
UPPER ATMOSPHERIC SENSING SKILLS (UAS) STAGE																			
UAS	2250	Decode upper air messages.	B,R,M	E	L	-	-	-	365		0.0		0		1.0	2000, 2001	-	-	-
UAS	2251	Analyze a Skew-T Log P diagram.	B,R,M	E	L	-	-	-	365		0.0		0		1.0	2001, 2250	-	-	2502, 2503, 2504
UAS	2252	Identify the components of an upper-air sensor and upper-air sensing equipment.	B	E	G	-	-	-	*		2.0		0		0.0	2001	-	-	2500
TOTAL UPPER ATMOSPHERIC SENSING SKILLS (UAS) STAGE										2	2.0	0	0	0	2				
ASTRONOMICAL/TIDAL DATA (ATD) STAGE																			
ATD	2300	Define and state the difference between civil, nautical, and astronomical twilight.	B	E	G	-	-	-	*		1.0		0		0	2000	-	-	-
ATD	2301	State the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.	B		G	-	-	-	*		1.0		0		0	2000, 2300	-	-	-
TOTAL ASTRONOMICAL/TIDAL DATA (ATD) STAGE										2	2.0	0	0	0	0				
FAMILIARIZATION (FAM) STAGE																			
FAM	2350	Identify and define local area policies and procedures.	B	E	G	-	-	-	*		2.0		0		0	-	-	-	3601
TOTAL FAMILIARIZATION (FAM) STAGE										1	2.0	0	0	0	0				
EQUIPMENT (EQPT) STAGE																			
EQPT	2400	Operate handheld meteorological devices.	B,R,M	E	L	-	-	-	180		0		0		3.0	2000	-	-	3400
EQPT	2401	Operate a handheld GPS device.	B,R,M	E	L	-	-	-	1460		0		0		2.0	-	-	-	-
EQPT	2402	Operate the Meteorological Radar Subsystem (MRS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-

EQPT	2403	Operate the Meteorological Satellite Subsystem (MSS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	2404	Operate the Communications Subsystem (CSS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	2405	Operate the Local Subsystem (LSS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	2406	Operate the Remote Subsystem (RSS).	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	2407	Operate the Upper Air Subsystem (UAS).	B,R,M	E	L	-	-	-	365		0		0		1.0	2252	-	-	-
TOTAL EQUIPMENT (EQPT) STAGE										0	0.0	0	0.0	8	15.0				
APPLIED METEOROLOGICAL SCIENCE (AMS) STAGE																			
AMS	2500	Describe principles of atmospheric physics.	B	E	G	-	-	-	*		15.0		0		0	2000, 2001, 2003, 2004	-	-	2100
AMS	2501	Describe principles of atmospheric dynamics.	B	E	G	-	-	-	*		15.0		0		0	2000, 2001, 2003, 2004, 2500	-	-	2101
AMS	2502	Describe atmospheric fundamentals.	B	E	G	-	-	-	*		5.0		0		0	2000, 2001, 2003, 2004, 2017, 2018, 2019, 2020, 2026, 2500, 2501	-	-	2102
AMS	2503	State the use of graphical METOC products.	B	E	L/S	-	-	-	*		0		0		20.0	2000, 2001, 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2033, 2055, 2056, 2500, 2501, 2502	-	-	2104
TOTAL APPLIED METEOROLOGICAL SCIENCE (AMS) STAGE										3	35.0	0	0.0	1	20.0				
METOC DATA ANALYSIS (MDA) STAGE																			
MDA	2550	Initialize and verify meteorological model output.	B	E	L/S	-	-	-	*		0		0		2.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503	-	-	2103
MDA	2551	Analyze and interpret a thickness chart or thickness model.	B,R,M	E	L	-	-	-	365		0		0		1.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500,	-	-	2700

																2501, 2502, 2503, 2550			
MDA	2552	Analyze and interpret a vorticity chart or vorticity model.	B,R,M	E	L	-	-	-	365		0		0		1.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550	-	-	2701
MDA	2553	Analyze and interpret upper atmospheric weather charts.	B,R,M	E	L	-	-	-	365		0		0		6.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-	-	2702
MDA	2554	Analyze and interpret a surface weather chart.	B,R,M	E	L	-	-	-	365		0		0		2.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-	-	2703
MDA	2555	Analyze meteorological features on satellite imagery.	B,R,M	E	L/S	-	-	-	365		0		0		2.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503	-	-	2600
MDA	2556	Analyze meteorological features on radar products.	B,R,M	E	L	-	-	-	365		0		0		2.0	2003, 2004, 2022, 2023, 2024, 2025, 2027, 2028, 2054, 2500, 2501, 2502, 2503	2300	-	2301
TOTAL METOC DATA ANALYSIS (MDA) STAGE										0	0.0	0	0.0	7	16.0				
METEOROLOGICAL FORECASTING (METF) STAGE																			
METF	2600	Forecast macro/synoptic scale features.	B	E	L/S	-	-	-	*		0.0		0.0		2.0	2003, 2004, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2028, 2029, 2030, 2031, 2055, 2056, 2500,	-	-	2105

																2501, 2502, 2503, 2550			
METF	2601	Develop synoptic scale forecast using prognosis techniques.	B,R,M	E	G	-	-	-	365		10.0		0.0		0.0	2003, 2004, 2019, 2020, 2055, 2056, 2551, 2552, 2553, 2554, 2600	-	-	2704
METF	2602	Forecast local area (mesoscale/microscale) meteorological elements and phenomenon.	B	E	G	-	-	-	*		2.0		0.0		0.0	2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-	-	2107
METF	2603	Forecast severe weather.	B	E	L/S	-	-	-	*		0.0		0.0		1.0	2003, 2004, 2022, 2023, 2024, 2025, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2600	-	-	2106
TOTAL METEOROLOGICAL FORECASTING (METF) STAGE										2	12.0	0	0	2	3.0				
WARNINGS, WATCHES AND ADVISORIES STAGE (WWA)																			
MPB	2650	Brief synoptic chart set.	B,R	E		-	-	-	*		0.0		0.0		3.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2600, 2601, 2602	-	-	2200
MPB	2651	Demonstrate proficiency in completing a flight weather briefing (DD 175-1).	B,R,M	E		-	-	-	365		0.0		0.0		3.5	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055,	-	-	3302

																2056, 2500, 2501, 2502, 2503, 2550			
WARNINGS, WATCHES AND ADVISORIES STAGE (WWA)										0	0.0	0	0.0	2	6.5				
COMMUNICATIONS (COMM) STAGE																			
COMM	2700	Understand the fundamentals of Communications.	B	E	G	-	-	-	*		5.0		0.0		0.0	-	-	-	-
COMM	2701	Operate HF man-pack communications equipment.	B,R,M	E	L	-	-	-	365		0.0		0.0		8.0	2700	-	-	-
COMM	2702	Operate intra-team communications equipment.	B,R,M	E	L	-	-	-	365		0.0		0.0		2.0	2700	-	-	-
COMM	2703	Operate UHF/VHF/SATCOM man-pack communications equipment.	B,R,M	E	L	-	-	-	365		0.0		0.0		4.0	2700	-	-	-
COMM	2704	Describe proper handling and storage of classified materials.	B,R	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
COMM	2705	Plan physical security for classified areas.	B, R	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
COMM	2706	Extract key material information from EKMS callout.	B, R	E	G	-	-	-	*		2.0		0.0		0.0	2704	-	-	-
COMM	2707	Operate a common fill device (CFD).	B,R,M	E	L	-	-	-	365		0.0		0.0		2.0	2704, 2705, 2706	-	-	-
TOTAL COMMUNICATIONS (COMM) STAGE										4	11.0	0	0	4	16				
METOC DOCTRINE (MDN) STAGE																			
MDN	2750	Demonstrate an understanding of METOC's role in the Marine Corps Planning Process (MCPP).	B	E	G	-	-	-	*		3.0		0.0		0.0	-	-	-	-
MDN	2751	Describe US Marine Corps' (USMC) METOC doctrine, organization, core capabilities and operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
TOTAL METOC DOCTRINE (MDN) STAGE										2	4.0	0	0.0	0	0.0				
ADMINISTRATION (ADM) STAGE																			
ADM	2800	Draft a response to a MCATS Task Workflow.	B	E	G	-	-	-	*		1.0		0.0		0.0	2057, 2058, 2059, 2083	-	-	-

ADM	2801	Demonstrate an understanding of the Total Force Structure Management System (TFSMS).	B	E	G	-	-	-	*		2.0		0.0		0.0	2102, 2103	-	-	-
ADM	2802	Draft an annual budget and mid-/end of year review submissions for the METOC section.	B	E	G	-	-	-	*		8.0		0.0		0.0	2109, 2853	-	-	-
ADM	2803	Describe the JCIDS as it relates to Marine Corps METOC.	B	E	G	-	-	-	*		3.0		0.0		0.0	2105	-	-	-
ADM	2804	Draft a Table of Organization and Equipment (TO&E) Change Request (TOECR).	B	E	G	-	-	-	*		16.0		0.0		0.0	2102, 2103, 2801	-	-	-
ADM	2805	Describe the Marine Corps Readiness Inspections and Assessments program.	B	E	G	-	-	-	*		3.0		0.0		0.0	-	-	-	-
ADM	2806	Describe the Marine Corps Force Development System (MCFDS)/Expeditionary Force Development System (EFDS).	B	E	G	-	-	-	*		1.0		0.0		0.0	2105, 2106	-	-	-
ADM	2807	Define the Fleet Assistance Program (FAP).	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
ADM	2808	Draft a Universal Needs Statement (UNS).	B	E	L/S	-	-	-	*		0.0		0.0		16.0	2105, 2106, 2806	-	-	-
ADM	2809	Draft an Urgent Operational Needs (UONs).	B	E	G	-	-	-	*		16.0		0.0		0.0	2105, 2106, 2806, 2808	-	-	-
ADM	2810	Describe the Marine Corps Action Tracking System (MCATS).	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
TOTAL ADMINISTRATION (ADM) STAGE										10	52.0	0	0.0	1	16.0				
MANAGEMENT (MGT) STAGE																			
MGT	2850	Identify the embarkation requirements for the METOC section.	B	E	G	-	-	-	*		4.0		0.0		0.0	2062, 2101	-	-	-
MGT	2851	State the key elements of an OPORDER and discuss how they relate to METOC support.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-

MGT	2852	State the METOC products and services required for operational decision-making and joint operations.	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	3811
MGT	2853	Describe the Fiscal/Budget process within the Marine Corps as it relates to the METOC section.	B	E	G	-	-	-	*		8.0		0.0		0.0	2109	-	-	-
MGT	2854	State the purpose of the Service and Joint Task Lists.	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	3812
MGT	2855	State management techniques of METOC resources.	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	3813
MGT	2856	State the purpose of a METOC sensing strategy.	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	3814
MGT	2857	State the purpose of the quality control program.	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	3815
TOTAL MANAGEMENT (MGT) STAGE										8	23.0	0	0.0	0	0.0				
LITTORAL FORECASTING/ANALYSIS (LFA) STAGE																			
LFA	2900	State the elements of a surf observation.	B	E	G	-	-	-	*		5.0		0.0		0.0	2000, 2003, 2004, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3100, 3151	-	-	3102
TOTAL LITTORAL FORECASTING/ANALYSIS (LFA) STAGE										1	5.0	0	0.0	0	0.0				
METOC IMPACT ASSESSMENT (MIA) STAGE																			
MIA	2950	State the physical METOC effect on the land domain and how they affect operations.	B	E	G	-	-	-	*		3.0		0.0		0.0	-	-	-	-
MIA	2951	State the physical METOC effect on the maritime domain and how they affect operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
MIA	2952	State the physical METOC effect on the air domain and how they affect operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-

MIA	2953	State the physical METOC effect on the space domain and how they affect operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	2053, 3007, 3008, 3009, 3010, 3011	-	-	-
TOTAL METOC IMPACT ASSESSMENT (MIA) STAGE										1	6.0	0	0.0	0	0.0				
TOTAL CORE SKILL PHASE (2000 PHASE)										132	480.0	0	0.0	28	98.0				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																			
ACADEMICS (ACAD) STAGE																			
ACAD	3000	Complete 'METOC Support for Strike Warfare' resident course.	B	E	G	-	-	-	*		24.0		0.0		0.0	2090, 2091	-	-	3015
ACAD	3001	Complete 'METOC Support for Amphibious Warfare' resident course.	B	E	G	-	-	-	*		8.0		0.0		0.0	-	-	-	4001
ACAD	3002	Complete 'METOC Support for Combat Search and Rescue/ Search and Rescue (CSAR/SAR)' resident course.	B	E	G	-	-	-	*		8.0		0.0		0.0	-	-	-	3016
ACAD	3003	Complete 'Littoral Oceanography' resident course.	B	E	G	-	-	-	*		40.0		0.0		0.0	-	-	-	-
ACAD	3004	Complete 'Mobile Environmental Team Primer' resident course.	B	E	G	-	-	-	*		8.0		0.0		0.0	-	-	-	-
ACAD	3005	Complete 'Mobile Environmental Team Trainer' resident course.	B	E	G	-	-	-	*		16.0		0.0		0.0	3004	-	-	-
ACAD	3006	Complete 'METOC Support for Air Defense, Surface Warfare, and Information Warfare (AD, SW, IW)' resident course.	B	E	G	-	-	-	*		24.0		0.0		0.0	2091	-	-	-
ACAD	3007	Complete 'Space Weather Impacts on Aviation' module.	B	E	G	-	-	-	*		2.0		0.0		0.0	2053	-	-	-
ACAD	3008	Complete 'Space Weather - Layers of the Sun' module.	B	E	G	-	-	-	*		1.0		0.0		0.0	2053	-	-	-
ACAD	3009	Complete 'Space Weather – Active Regions' module.	B	E	G	-	-	-	*		1.0		0.0		0.0	2053	-	-	-
ACAD	3010	Complete 'Solar X-Ray Flares & HF Communications' module.	B	E	G	-	-	-	*		1.0		0.0		0.0	2053	-	-	-

ACAD	3011	Complete 'Equatorial Scintillation and UHF SATCOM' module.	B	E	G	-	-	-	*		1.0		0.0		0.0	2053	-	-	-
ACAD	3020	Complete 'Applied Environmental Sciences' (AES) Course.	B	E	G	-	-	-	*		78.0		0.0		0.0	-	-	-	3020
ACAD	3021	Complete 'METOC Impacts Analyst Course (MIAC)' course	B	E	G	-	-	-	*		60.5		0.0		0.0	3020	-	-	3021
ACAD	3022	Complete 'Riverine Analysis and Forecasting Course' resident course.	B	E	G	-	-	-	*		40.0		0.0		0.0	2046, 2047, 2051	-	-	4006
ACAD	3023	Complete 'METOC Support for Chemical, Biological, Radiological, and Nuclear Environment (CBRNE)' resident course.	B	E	G	-	-	-	*		8.0		0.0		0.0	-	-	-	4002
ACAD	3024	Complete 'METOC Support for Naval Special Warfare (NSW)' resident course.	B	E	G	-	-	-	*		24.0		0.0		0.0	-	-	-	4011
ACAD	3025	Complete 'Tactical Forecasting for Naval Special Warfare (NSW)' resident course.	B	E	G	-	-	-	*		24.0		0.0		0.0	-	-	-	4012
ACAD	3026	Complete 'OA Division Tactical Team (OATT) Trainer: Basic' resident course.	B	E	G	-	-	-	*		32.0		0.0		0.0	-	-	-	4013
ACAD	3027	Complete 'OA Division Tactical Team (OATT) Trainer: Intermediate' resident course.	B	E	G	-	-	-	*		32.0		0.0		0.0	-	-	-	4014
ACAD	3028	Complete 'OA Division Tactical Team (OATT) Trainer: Advanced' resident course.	B	E	G	-	-	-	*		32.0		0.0		0.0	-	-	-	4015
ACAD	3029	Complete 'RQM 110 Core Concepts for Requirements Management' course.	B	E	G	-	-	-	*		35.0		0.0		0.0	2105	-	-	-
ACAD	3030	Complete 'SYS 101 Fundamentals of Systems Planning, Research, Development, and Engineering' course.	B	E	G	-	-	-	*		35.0		0.0		0.0	2106	-	-	-

ACAD	3031	Complete 'CLB 007 Cost Analysis' course.	B	E	G	-	-	-	*		4.0		0.0		0.0	-	-	-	-
ACAD	3032	Complete 'CLV 016 or CLB 016 Introduction to Earned Value Management' course.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
ACAD	3033	Complete 'ACQ 201A Intermediate Systems Acquisition, Part A' course.	B	E	G	-	-	-	*		25.0		0.0		0.0	-	-	-	-
TOTAL ACADEMICS (ACAD) STAGE										26	564.5	0	0.0	0	0.0				
METEOROLOGICAL SURFACE OBSERVATION (MSO) STAGE																			
MSO	3100	Conduct a surface meteorological observation.	B,R,M	E	L	-	-	-	365		0.0		0.0		30.0	2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202	-	-	2402
MSO	3102	Encode and disseminate a pilot weather report (PIREP).	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	2000	-	-	3300
TOTAL METEOROLOGICAL SURFACE OBSERVATION (MSO) STAGE										0	0.0	0	0.0	3	31.0				
ASTRONOMICAL/TIDAL DATA (ATD) STAGE																			
ATD	3150	Produce astronomical data.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	2000, 2300, 2301	-	-	-
ATD	3151	Produce tidal data.	B,R,M	E	L	-	-	-	180		0.0		0.0		1.5	2000, 2003, 2004, 2048, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023	-	-	3100
TOTAL ASTRONOMICAL/TIDAL DATA (ATD) STAGE										0	0.0	0	0.0	2	2.5				
EQUIPMENT (EQPT) STAGE																			
EQPT	3200	Operate the Automated Surface Observing System (ASOS).	B,R,M	E	L	-	-	-	365		0.0		0.0		0.5	-	-	-	3401
EQPT	3201	Operate garrison METOC equipment in order to provide support to base operations.	B,R,M	E	L	-	-	-	365		0.0		0.0		24.0	-	-	-	3402
EQPT	3202	Conduct management operations for the meteorological radar system.	B,R,M	E	L	-	-	-	365		0.0		0.0		6.0	2402	-	-	3403

EQPT	3203	Conduct a recon, selection, and occupation of position (RSOP) for METOC equipment.	B,R,M	E	L	-	-	-	180		0.0		0.0		4.0	-	-	-	-
EQPT	3204	Setup or assist with the setup of the AN/UMK-4(v)4, TESS/NITES.	B,R,M	E	L	-	-	-	180		0.0		0.0		1.0	-	-	-	-
EQPT	3205	Operate the AN/UMK-4(v)4 TESS/NITES.	B,R,M	E	L	-	-	-	180		0.0		0.0		12.0	-	48 HOURS TO COMPLETE		3409
EQPT	3206	Pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.	B,R,M	E	L	-	-	-	180		0.0		0.0		1.0	-	-	-	-
EQPT	3207	Setup surface meteorological sensing systems.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3208	Pack the surface meteorological sensing system.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3209	Setup the meteorological radar subsystem for integrated operations.	B,R,M	E	L	-	-	-	365		0.0		0.0		2.0	-	-	-	-
EQPT	3210	Pack the meteorological radar subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		2.0	-	-	-	-
EQPT	3211	Setup the meteorological satellite subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3212	Pack the meteorological satellite subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3213	Setup the meteorological upper air subsystem for integrated operations.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3214	Pack the meteorological upper air subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3215	Setup the meteorological communication subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3216	Pack the meteorological communication subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3217	Setup the meteorological product generation and dissemination subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-

EQPT	3218	Pack the meteorological product generation and dissemination subsystem.	B,R,M	E	L	-	-	-	365		0.0		0.0		1.0	-	-	-	-
EQPT	3219	Operate the AN/TMQ-56 METMF(R) NEXGEN.	B,R,M	E	L	-	-	-	365		0.0		0.0		24.0	2402, 2403, 2404, 2405, 2406, 2407, 3202, 3207, 3209, 3211, 3213, 3215, 3217	-	-	3408
TOTAL EQUIPMENT (EQPT) STAGE										0	0.0	0	0.0	20	86.5				
METOC DOCTRINE STAGE (MDN)																			
METF	3250	Produce a Terminal Aerodrome Forecast (TAF).	B,R,M	E	L	-	-	-	365		0.0		0.0		26.0	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3300, 3303	-	-	3301

METF	3251	Produce a limited data forecast.	B,R,M	E	L	-	-	-	365		0.0		0.0		6.0	2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-	-	-
TOTAL METOC DOCTRINE STAGE (MDN)										0	0.0	0	0.0	2	32.0				
METOC PRODUCT BRIEFING (MPB) STAGE																			
MPB	3300	Produce a flight weather packet.	B,R,M	E	L	-	-	-	365		0.0		0.0		2.0	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056	-	-	3303
MPB	3301	Brief a flight weather briefing (DD 175-1).	B,R,M	E	L	-	-	-	365		0.0		0.0		0.1	2601	-	-	-

MPB	3302	Produce a 96-hour graphical METOC brief.	B,R,M	E	L	-	-	-	180		0.0		0.0		2.0	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3250	-	-	-
MPB	3303	Generate and conduct a climatology brief.	B,R,M	E	L	-	-	-	365		0.0		0.0		12.0	2003, 2004, 2036, 2042	-	-	2800
MPB	3304	Conduct an aviation strike brief.	B, R	E	L	-	-	-	*		0.0		0.0		3.0	2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-	-	3304
MPB	3305	Conduct an aviation assault brief.	B, R	E	L	-	-	-	*		0.0		0.0		3.0	2053, 2950, 2951, 2952, 2953, 3001,	-	-	-

																3007, 3008, 3009, 3010, 3011, 3304			
MPB	3306	Conduct an amphibious warfare brief.	B, R	E	L	-	-	-	*		0.0		0.0		8.0	2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-	-	-
MPB	3307	Conduct a Search and Rescue (SAR) brief.	B, R	E	L	-	-	-	*		0.0		0.0		2.0	2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-	-	3308
TOTAL METOC PRODUCT BRIEFING (MPB) STAGE										0	0.0	0	0.0	8	32.1				
LITTORAL FORECASTING/ANALYSIS (LFA) STAGE																			
LFA	3350	Compute Modified Surf Index (MSI).	B,R,M	E	L	-	-	-	180		0.0		0.0		1.0	2900, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3100, 3102, 3151	-	-	3103
LFA	3351	Create a surf forecast.	B,R,M	E	L	-	-	-	180		0.0		0.0		24.0	2900, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3100, 3102, 3103, 3151, 3350	-	-	3104
TOTAL LITTORAL FORECASTING/ANALYSIS (LFA) STAGE										0	0.0	0	0.0	2	25.0				
METOC IMPACT ASSESSMENT (MIA) STAGE																			
MIA	3400	Produce METOC impacts on command, control, and communication (C3) operations.	B,R,M	E	L	-	-	-	365		0.0		0.0		3.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-	-	-
MIA	3401	Produce METOC impacts on MAGTF operations.	B,R,M	E	L	-	-	-	365		0.0		0.0		3.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-	-	-

MIA	3402	Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.	B,R,M	E	L	-	-	-	365		0.0		0.0		3.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011, 3401	-	-	-
TOTAL METOC IMPACT ASSESSMENT (MIA) STAGE										0	0.0	0	0.0	3	9.0				
MANAGEMENT (MGT) STAGE																			
MGT	3450	Deploy a METOC section in support of unit operations.	B,R,M	E	L	-	-	-	365		0.0		0.0		24.0	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3500	-	-	-
MGT	3451	Manage METOC Operations in support of unit exercise or deployment.	B,R,M	E	L	-	-	-	365		0.0		0.0		12.0	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3450, 3500	-	-	-
TOTAL MANAGEMENT (MGT) STAGE										0	0.0	0	0.0	2	36.0				
METOC PLANNING COORDINATION (MPC) STAGE																			
MPC	3500	Submit input to annexes of operational orders.	B	E	L	-	-	-	*		0.0		0.0		8.0	2057, 2058, 2059	-	-	-
MPC	3501	Demonstrate an understanding of how METOC integrates into the JIPOE.	B,R,M	E	G	-	-	-	1095		1.0		0.0		0.0	2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081,	-	-	-

																8082, 8083, 8084, 8085, 8086, 8087, 8088			
MPC	3502	Demonstrate an understanding of METOC integration into JOPES.	B	E	G	-	-	-	*		1.0		0.0		0.0	2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088	-	-	-
MPC	3503	Demonstrate an understanding of how METOC integrates into the JOPP.	B	E	G	-	-	-	*		1.0		0.0		0.0	2750, 2751, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088	-	-	-
MPC	3505	Conduct METOC support for Intelligence Operations.	B	E	L	-	-	-	*		0.0		0.0		35.0	3501	-	-	-
TOTAL METOC PLANNING COORDINATION (MPC) STAGE										3	3.0	0	0.0	2	43.0				
TOTAL MISSION SKILL PHASE (3000 PHASE)										29	567.5	0	0.0	44	297.1				
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)																			
ACADEMIC SKILLS (ACAD)																			
ACAD	4000	Complete 'Mediterranean Forecast Course' resident course.	B	E	G	-	-	-	*		16.0		0.0		0.0	-	-	-	4008
ACAD	4001	Complete 'Central Command (CENTCOM) AOR Forecasting' resident course.	B	E	G	-	-	-	*		16.0		0.0		0.0	-	-	-	4009
ACAD	4002	Complete 'METOC Forecasting for COMSEVENTHFLT AOR' resident course.	B	E	G	-	-	-	*		16.0		0.0		0.0	-	-	-	4010
ACAD	4010	Complete 'Senior METOC Officer Afloat (SMOA) Course' resident course.	B	E	G	-	-	-	*		16.0		0.0		0.0	-	-	-	4007

ACAD	4011	Complete 'RQM 310, Advanced Concepts for Requirements Management' resident course.	B	E	G	-	-	-	*		36.0		0.0		0.0	2105, 3029	-	-	4016
ACAD	4012	Complete 'ACQ 201B Intermediate Systems Acquisition, Part B' resident course.	B	E	G	-	-	-	*		36.0		0.0		0.0	2106, 3033	-	-	4017
ACAD	4013	Complete 'PMT 251 Program Management Tools Course, Part I' course.	B	E	G	-	-	-	*		30.0		0.0		0.0	2106, 3033, 4012	-	-	4018
ACAD	4014	Complete 'PMT 257 Program Management Tools Course, Part II' course.	B	E	G	-	-	-	*		36.0		0.0		0.0	2106, 3033, 4012, 4013	-	-	4019
ACAD	4015	Complete 'CON 121 Contract Planning' course.	B	E	G	-	-	-	*		12.0		0.0		0.0	-	-	-	4020
ACAD	4016	Complete 'CON 124 Contract Execution' course.	B	E	G	-	-	-	*		13.0		0.0		0.0	4015	-	-	4021
ACAD	4017	Complete 'CON 127 Contract Management' course.	B	E	G	-	-	-	*		10.0		0.0		0.0	4015, 4016	-	-	4022
ACAD	4018	Complete 'EVM 101 Fundamentals of Earned Value Management' course.	B	E	G	-	-	-	*		18.0		0.0		0.0	2106	-	-	4024
ACAD	4019	Complete 'IRM 101 Basic Information Systems Acquisition' course.	B	E	G	-	-	-	*		34.0		0.0		0.0	2106	-	-	4023
ACAD	4020	Complete 'EVM 101 or BCF 102 Fundamentals of Earned Value Management' course.	B	E	G	-	-	-	*		18.0		0.0		0.0	2106	-	-	-
ACAD	4021	Complete 'Lean Six Sigma White Belt' course.	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
ACAD	4022	Complete 'Lean Six Sigma Yellow Belt' course	B	E	G	-	-	-	*		8.0		0.0		0.0	4021	-	-	-

ACAD	4030	Complete 'Joint METOC Officer' resident course.	B	E	G	-	-	-	*		32.0		0.0		0.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501,	-	-	-

																2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			
TOTAL ACADEMIC SKILLS STAGE (ACAD)										17	349.0	0	0.0	0	0.0				

METOC DOCTRINE (MDN) STAGE																			
MDN	4200	Demonstrate an understanding of the key concepts of interagency operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
MDN	4201	State the METOC organization within the US Africa Command (AFRICOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4202	State the METOC organization within the US Central Command (USCENTCOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4203	State the METOC organization within the US European Command (EUCOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4204	State the METOC organization within the US Northern Command (USNORTHCOM) and North American Aerospace Defense Command (NORAD).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4205	State the METOC organization within the US Pacific Command (USPACOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4206	State the METOC organization within the US Southern Command (USSOUTHCOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4207	State the METOC organization within the US Special Operations Command (USSOCOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4208	State the METOC organization within the US Strategic Command (USSTRATCOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
MDN	4209	State the METOC organization within the US Transportation Command (USTRANSCOM).	B,R	E	G	-	-	-	*		1.5		0.0		0.0	-	-	-	-
TOTAL METOC DOCTRINE (MDN) STAGE										10	14.5	0	0.0	0	0.0				
MANAGEMENT (MGT) STAGE																			

MGT	4250	Develop an embarkation program within the METOC section.	B,R,M	E	G	-	-	-	1095		8.0		0.0		0.0	2062, 2101	-	-	-
MGT	4251	Conduct of a Functional Area 890 Inspection in support of the Unit Inspection Program (UIP).	B,R	E	G	-	-	-	*		16.0		0.0		0.0	2805	-	-	-
MGT	4252	Organize METOC resources into a functional joint METOC organization within a new Joint Task Force (JTF).	B,R	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	3810
MGT	4253	Describe the application of Continuous Process Improvement (CPI) concepts in relation to METOC support operations.	B,R	E	G	-	-	-	*		2.0		0.0		0.0	4021, 4022	-	-	-
MGT	4254	Perform System Administration.	B,R,M	E	L	-	-	-	1095		0.0		0.0		8.0	-	-	-	-
TOTAL MANAGEMENT (MGT) STAGE										4	28.0	0	0.0	1	8.0				
MARINE ATC MOBILE TEAM MEMBER (MMTM) STAGE																			
MMTM	4300	Conduct MMT assault landing zone (ALZ) Operations.	B	E	L	-	-	-	*		0.0		0.0		6.0	-	-	-	-
MMTM	4301	Conduct MMT Helicopter Landing Zone (HLZ) Operations.	B	E	L	-	-	-	*		0.0		0.0		4.0	-	-	-	-
MMTM	4302	Conduct MMT land navigation operations.	B,R	E	L	-	-	-	*		0.0		0.0		12.0	-	-	-	-
MMTM	4303	Collect assault zone survey data using equipment organic to the MMT.	B,R,M	E	L	-	-	-	730		0.0		0.0		12.0	2401, 4305, 4306	-	-	-
MMTM	4304	Perform as a METOC MMT Member during operational planning.	B,R,M	E	L	-	-	-	1460		0.0		0.0		2.0	2401, 2701, 2702, 2703, 2704, 2705, 2706, 2707	-	-	-
MMTM	4305	Operate the Dynamic Cone Penetrometer (DCP).	B,R	E	L	-	-	-	*		0.0		0.0		2.0	-	-	-	-
MMTM	4306	Operate the Laser Range Finder (LRF).	B,R	E	L	-	-	-	*		0.0		0.0		2.0	-	-	-	-
TOTAL MARINE ATC MOBILE TEAM MEMBER (MMTM) STAGE										0	0.0	0	0.0	7	40.0				
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)										31	391.5	0	0.0	8	48.0				
TOTAL 2000, 3000, AND 4000 PHASE										192	1439.0	0	0.0	80	443.1				

INSTRUCTOR TRAINING (5000 PHASE EVENTS)																			
INSTRUCTOR UNDER TRAINING (IUT)																			
BASIC INSTRUCTOR (BI)																			
IUT	5000	Introduce principles of instruction.	B	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	5000
IUT	5010	Understand the structure of an event.	B	E	G	-	-	-	*		1.0		0.0		0.0	5000	-	-	5010
IUT	5020	Conduct a period of instruction on a T&R event.	B	E	G	-	-	-	*		2.0		0.0		0.0	5000, 5010	-	-	5020
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										3	5.0	0	0.0	0	0.0				
SENIOR INSTRUCTOR (SI)																			
IUT	5100	Understand the Aviation Training and Readiness (T&R) Program.	B	E	G	-	-	-	*		2.0		0.0		0.0	5000, 5010, 5020, 6320	-	-	5100
IUT	5110	Understand the applicable community T&R program.	B	E	G	-	-	-	*		2.0		0.0		0.0	5000, 5010, 5020, 5100, 6320	-	-	5110
IUT	5120	Understand T&R administration.	B	E	G	-	-	-	*		2.0		0.0		0.0	5000, 5010, 5020, 5100, 5110, 6320	-	-	5120
IUT	5130	Develop a training plan.	B,R,M	E	G	-	-	-	365		2.0		0.0		0.0	5000, 5010, 5020, 5100, 5110, 5120, 6320	-	-	5130
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										4	8.0	0	0.0	0	0.0				
TOTAL INSTRUCTOR UNDER TRIANING SKILLS PHASE (IUT)										7	13.0	0	0.0	0	0.0				
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																			
SCHOOL CODES (SCHL) STAGE																			
SCHL	6000	Weapons and Tactics Instructor (WTI) course	B	-	G	-	-	-	*		0.0		0		0	-	-	-	-
TOTAL SCHOOL CODES (SCHL) STAGE										1	0.0	0	0	0	0				
QUALIFICATIONS (QUAL) STAGE																			
QUAL	6200	Qualify as a METOC Observer (MO).	B	-	G	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 3100, 3102, 3150, 3151	-	-	-

QUAL	6201	Qualify as an Apprentice METOC Analyst Forecaster (AMAF).	B	-	G	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3102, 3150,	-	-	6200

																3151, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			
QUAL	6202	Qualify as a Journeyman METOC Analyst Forecaster (JMAF).	B	-	G	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057,	-	-	6201

																2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3102, 3150, 3151, 3203, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500,			

																3501, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			
QUAL	6203	Qualify as a METOC Support Team Observer (MSTO).	B	-	G	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2071, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2700, 2702, 2703, 3004, 3026, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 6200, 6211	-	-	

QUAL	6204	Qualify as a METOC Support Team Forecaster (MSTF).	B	-	G	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651,	-	-	

															2700, 2701, 2702, 2703, 2704, 3001, 3002, 3003, 3004, 3022, 3023, 3024, 3025, 3026, 3027, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			

QUAL	6205	Qualify as a METOC Support Team Leader (MSTL).	B	-	G	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2101, 2108, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350,	-	-	-

																2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3501, 3505, 6200, 6201, 6202, 6203, 6204, 6211, 8000,			

																8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			
TOTAL QUALIFICATIONS (QUAL) STAGE										0	0.0	0	0.0	6	6.0				
CERTIFICATIONS (CERT) STAGE																			
CERT	6210	Certify as a Station MO.	B	-	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2350, 2400, 3100, 3102, 3150, 3151, 3200, 3201, 6200	-	-	-

CERT	6211	Certify as a Tactical MO.	B	-	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 3100, 3102, 3150, 3151, 3204, 3205, 3206, 6200	-	-	-
CERT	6212	Certify as a Tactical AMAF.	B	-	L	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206,	-	-	-

																2250, 2251, 2252, 2300, 2301, 2350, 2400, 2402, 2403, 2404, 2405, 2406, 2407, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3102, 3150, 3151, 3202, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			
TOTAL CERTIFICATIONS (CERT) STAGE										2	2.0	0	0	1	1					
DESIGNATIONS (DESG) STAGE																				

DESG	6310	Designation as a Journeyman METOC Officer (JMO).	B,R,M	-	S/L	-	-	-	1095		0.0		2.0		0.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2200, 2201, 2202, 2203, 2204,	-	-	-

																2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2850, 2851, 2852, 2853, 2855, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3029, 3031, 3032, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3501, 3502, 3503, 3505, 6200, 6201, 6202, 8000, 8001,			

															8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088			

DESG	6311	Designation as a Master METOC Officer (MMO).	B,R,M	-	S/L	-	-	-	1095		0.0		2.0		0.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2200, 2201, 2202, 2203, 2204,	-	-	-

																2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3029, 3030, 3031, 3032, 3033, 3100, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3501, 3502, 3503, 3505, 6200, 6201,			

																6202, 6310, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088			
DESG	6320	Designation as a Basic Instructor (BI).	B	-	L	-	-	-	*		0.0		0.0		1.0	5000, 5010, 5020	-	-	6320
DESG	6321	Designation as a Senior Instructor (SI).	B	-	L	-	-	-	*		0.0		0.0		1.0	5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320	-	-	6321
DESG	6322	Designation as Weapons and Tactics Instructor (WTI).	B	-	L	-	-	-	*		0.0		0.0		1.0	6000	-	-	6322
TOTAL DESIGNATIONS (DESG) STAGE										0	0.0	0	4	3	3.0				
TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFCATIONS, AND DESIGNATIONS PHASE (RQCD)										3	2.0	0	4.0	10	10.0				

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

METEOROLOGICAL AND OCEANOGRAPHIC (METOC) SERVICES ENLISTED INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

	PARAGRAPH	PAGE
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS.	4.0	4-3
TRAINING PROGRESSION MODEL.	4.1	4-3
ABBREVIATIONS.	4.2	4-4
DEFINITIONS.	4.3	4-5
INDIVIDUAL CORE/MISSION/CORE PLUS PROFICIENCY REQUIREMENTS.	4.4	4-6
CERTIFICATION, QUALIFICATION AND DESIGNATION TABLE.	4.5	4-11
PROGRAMS OF INSTRUCTION (POI).	4.6	4-14
SYLLABUS NOTES.	4.7	4-14
ACADEMIC PHASE (0000).	4.8	4-16
CORE SKILL INTRODUCTION PHASE (1000).	4.9	4-16
CORE SKILL PHASE (2000).	4.10	4-45
MISSION SKILL PHASE (3000).	4.11	4-122
CORE/MISSION PLUS SKILL PHASE (4000).	4.12	4-162
INSTRUCTOR TRAINING PHASE (5000).	4.13	4-173
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) PHASE (6000).	4.14	4-175
MET PHASE (7000).	4.15	4-186
AVIATION CAREER PROGRESSION MODEL (8000).	4.16	4-191
T&R ATTAIN AND MAINTAIN TABLE.	4.17	4-193
T&R SYLLABUS MATRIX.	4.18	4-203
ADDITIONAL MATRIX (ORDNANCE/RANGES).	4.19	4-238
ADDITIONAL CHAINING FOR 5000 AND 6000 PHASE EVENTS.	4.20	4-238
AVIATION TRAINING FORMS (ATF).	4.21	4-238
TRAINING DEVICE EVENT ESSENTIAL SUBSYSTEMS MATRIX (EESM). .	4.22	4-238

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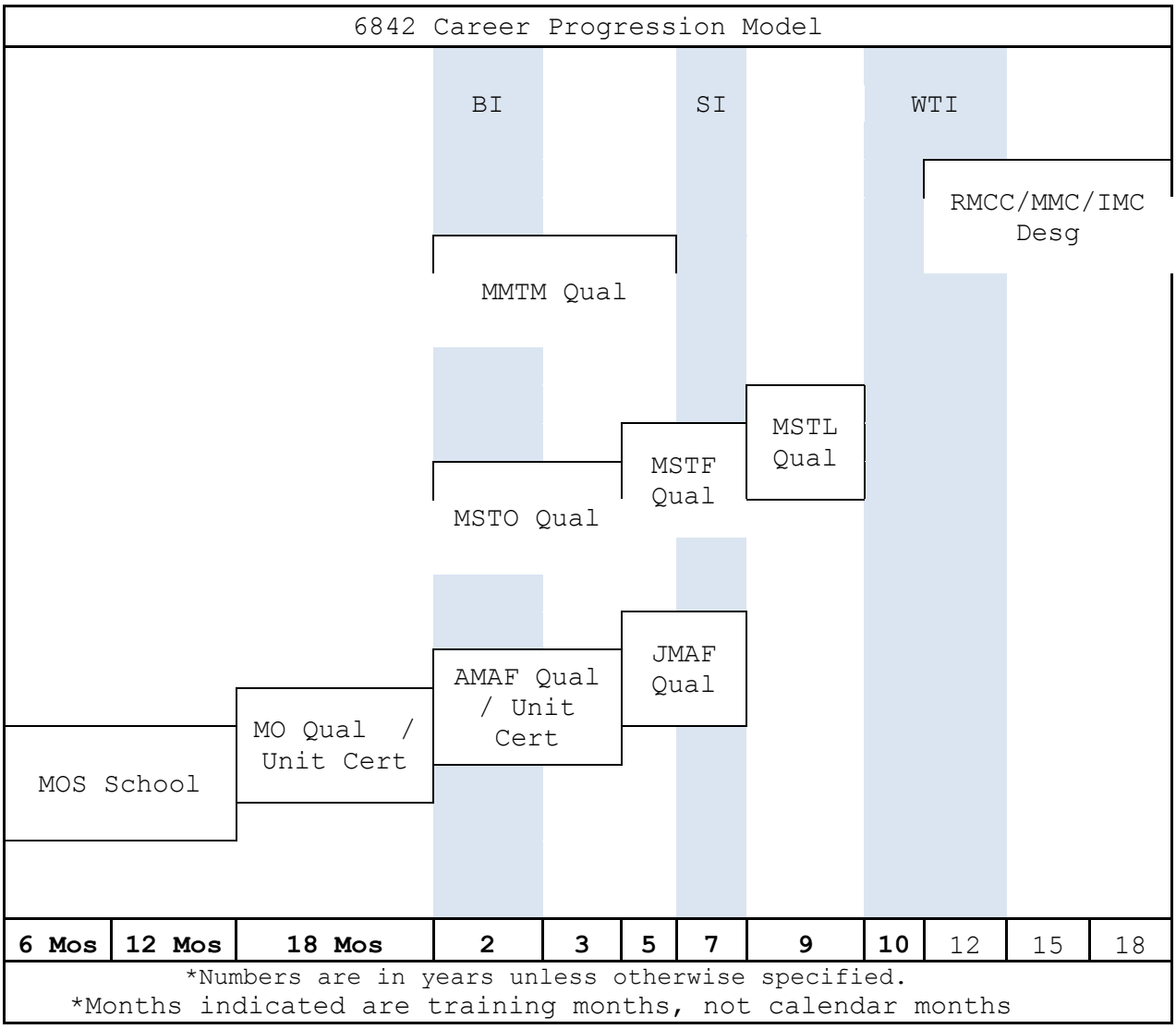
CHAPTER 4

METOC SERVICES
INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

4.0 METOC ANALYST FORECASTER/6842 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. The METOC training progression model represents training progression. This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core, Mission, and Core Plus Skills. The goal of this chapter is to develop individual and unit warfighting capabilities.

4.1 MOS 6842 TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average 6842 METOC Analyst Forecaster. Units should use the model as a point of departure to generate individual training plans.



4.2 ABBREVIATIONS

METOC ANALYST (6842)	
CORE/MISSION/CORE PLUS SKILL ABBREVIATIONS	
CORE SKILL (2000 Phase)	
ACAD	ACADEMICS
ADM	ADMINISTRATION
AMS	APPLIED METEOROLOGICAL SCIENCE
ATD	ASTRONOMICAL /TIDAL DATA
COMM	COMMUNICATIONS
EQPT	EQUIPMENT
FAM	FAMILIARIZATION
LFA	LITTORAL FORECASTING/ANALYSIS
MDA	METOC DATA ANALYSIS
MDN	METOC DOCTRINE
METF	METEOROLOGICAL FORECASTING
MIA	METOC IMPACT ASSESSMENT
MPB	METOC PRODUCT BRIEFING
MSO	METEOROLOGICAL SURFACE OBSERVATIONS
UAS	UPPER ATMOSPHERIC SENSING
MISSION SKILLS (3000 PHASE)	
ACAD	ACADEMICS
ATD	ASTRONOMICAL /TIDAL DATA
EQPT	EQUIPMENT
LFA	LITTORAL FORECASTING/ANALYSIS
METF	METEOROLOGICAL FORECASTING
MGT	MANAGEMENT
MIA	METOC IMPACT ASSESSMENT
MPB	METOC PRODUCT BRIEFING
MPC	METOC PLANNING COORDINATION
MSO	METEOROLOGICAL SURFACE OBSERVATIONS
CORE PLUS SKILLS (4000 PHASE)	
ACAD	ACADEMICS
LFA	LITTORAL FORECASTING/ANALYSIS
MGT	MANAGEMENT
MIA	METOC IMPACT ASSESSMENT
MMTM	MARINE ATC MOBILE TEAM
INSTRUCTOR (5000 Phase)	
BI	BASIC INSTRUCTOR
SI	SENIOR INSTRUCTOR
WTI	WEAPONS AND TACTICS INSTRUCTOR
CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (6000 Phase)	
MO	METOC OBSERVER

AMAF	APPRENTICE METOC ANALYST FORECASTER
JMAF	JOURNEYMAN METOC ANALYST FORECASTER
MSTO	METOC SUPPORT TEAM OBSERVER
MSTF	METOC SUPPORT TEAM FORECASTER
MSTL	METOC SUPPORT TEAM LEADER
MMTM	MARINE ATC MOBILE TEAM MEMBER
SMO	STATION METOC OBSERVER
TMO	TACTICAL METOC OBSERVER
TAMAF	TACTICAL APPRENTICE METOC ANALYST FORECASTER
RMCC	REGIONAL METOC CENTER CHIEF
MMC	MATCD METOC CHIEF
IMC	INTEL METOC CHIEF

4.3 DEFINITIONS

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

Core Plus Mission Proficiency (CPMP)	CPMP is a measure of training completion for 4000 Phase "Mission" events. CPMP is attained by executing all events listed in the Attain Table for each Core Plus Mission. The individual must be simultaneously proficient in all events within that Core Plus Mission to attain CPMP

4.4 INDIVIDUAL CORE/MISSION/CORE PLUS SKILL PROFICIENCY REQUIREMENTS

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

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 maintinaing 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 of the Aviation Program Manual for amplifying information on POI updating.

METOC 6842					
ATTAIN AND MAINTAIN CORE/MISSION/CORE PLUS PROFICIENCY MATRIX BY POI					
ATTAIN PROFICIENCY				MAINTAIN	
BASIC POI		REFRESHER POI		PROFICIENCY	
CORE SKILL (2000 Phase)					
STAGE	CODE	STAGE	CODE	STAGE	CODE
ACAD	2000				
ACAD	2001				
ACAD	2002				
ACAD	2003				
ACAD	2004				

ACAD	2005				
ACAD	2006				
ACAD	2007				
ACAD	2008				
ACAD	2009				
ACAD	2010				
ACAD	2011				
ACAD	2012				
ACAD	2013				
ACAD	2014				
ACAD	2015				
ACAD	2016				
ACAD	2017				
ACAD	2018				
ACAD	2019				
ACAD	2020				
ACAD	2021				
ACAD	2022				
ACAD	2023				
ACAD	2024				
ACAD	2025				
ACAD	2026				
ACAD	2027				
ACAD	2028				
ACAD	2029				
ACAD	2030				
ACAD	2031				
ACAD	2032				
ACAD	2033				
ACAD	2034				
ACAD	2035				
ACAD	2036				
ACAD	2037				
ACAD	2038				
ACAD	2039				
ACAD	2040				
ACAD	2041				
ACAD	2042				
ACAD	2043				
ACAD	2044				
ACAD	2045				
ACAD	2046				
ACAD	2047				
ACAD	2048				
ACAD	2049				
ACAD	2050				
ACAD	2051				
ACAD	2052				

ACAD	2053				
ACAD	2054				
ACAD	2055				
ACAD	2056				
ACAD	2057				
ACAD	2058				
ACAD	2059				
ACAD	2060				
ACAD	2061				
ACAD	2062				
ACAD	2063				
ACAD	2070				
ACAD	2071				
ACAD	2072				
ACAD	2073				
ACAD	2074				
ACAD	2075				
ACAD	2076				
ACAD	2077				
ACAD	2078				
ACAD	2079				
ACAD	2080				
ACAD	2081				
ACAD	2082				
ACAD	2083				
ACAD	2090				
ACAD	2091				
MSO	2200				
MSO	2201				
MSO	2202				
MSO	2203R	MSO	2203R	MSO	2203R
MSO	2204				
MSO	S2205R	MSO	S2205R	MSO	S2205R
MSO	2206				
UAS	2250R	UAS	2250R	UAS	2250R
UAS	S2251R	UAS	S2251R	UAS	S2251R
UAS	2252				
ATD	2300				
ATD	2301				
FAM	2350				
EQPT	2400R	EQPT	2400R	EQPT	2400R
EQPT	2401R	EQPT	2401R	EQPT	2401R
EQPT	2402R	EQPT	2402R	EQPT	2402R
EQPT	2403R	EQPT	2403R	EQPT	2403R
EQPT	2404R	EQPT	2404R	EQPT	2404R
EQPT	2405R	EQPT	2405R	EQPT	2405R
EQPT	2406R	EQPT	2406R	EQPT	2406R
EQPT	2407R	EQPT	2407R	EQPT	2407R

AMS	2500				
AMS	2501				
AMS	2502				
AMS	S2503				
MDA	S2550				
MDA	2551R	MDA	2551R	MDA	2551R
MDA	2552R	MDA	2552R	MDA	2552R
MDA	2553R	MDA	2553R	MDA	2553R
MDA	2554R	MDA	2554R	MDA	2554R
MDA	S2555R	MDA	S2555R	MDA	S2555R
MDA	2556R	MDA	2556R	MDA	2556R
METF	S2600				
METF	2601R	METF	2601R	METF	2601R
METF	2602				
METF	S2603				
MPB	2650R	MPB	2650R		
MPB	2651R	MPB	2651R	MPB	2651R
COMM	2700				
COMM	2701R	COMM	2701R	COMM	2701R
COMM	2702R	COMM	2702R	COMM	2702R
COMM	2703R	COMM	2703R	COMM	2703R
COMM	2704R	COMM	2704R		
COMM	2705R	COMM	2705R		
COMM	2706R	COMM	2706R		
COMM	2707R	COMM	2707R	COMM	2707R
MDN	2750				
ADM	S2808				
ADM	2809				
ADM	2810				
LFA	2900				
MIA	2950				
MIA	2951				
MIA	2952				
MIA	2953				
MISSION SKILL (3000 Phase)					
STAGE	**CODE**	**STAGE**	**CODE**	**STAGE**	**CODE**
ACAD	3000				
ACAD	3001				
ACAD	3002				
ACAD	3003				
ACAD	3004				
ACAD	3005				
ACAD	3006				
ACAD	3007				
ACAD	3008				
ACAD	3009				
ACAD	3010				

ACAD	3011				
ACAD	3020				
ACAD	3021				
ACAD	3022				
ACAD	3023				
ACAD	3024				
ACAD	3025				
ACAD	3026				
ACAD	3027				
ACAD	3028				
MSO	3100R	MSO	3100R	MSO	3100R
MSO	3101R	MSO	3101R	MSO	3101R
MSO	3102R	MSO	3102R	MSO	3102R
ATD	3150R	ATD	3150R	ATD	3150R
ATD	3151R	ATD	3151R	ATD	3151R
EQPT	3200R	EQPT	3200R	EQPT	3200R
EQPT	3201R	EQPT	3201R	EQPT	3201R
EQPT	3202R	EQPT	3202R	EQPT	3202R
EQPT	3203R	EQPT	3203R	EQPT	3203R
EQPT	3204R	EQPT	3204R	EQPT	3204R
EQPT	3205R	EQPT	3205R	EQPT	3205R
EQPT	3206R	EQPT	3206R	EQPT	3206R
EQPT	3207R	EQPT	3207R	EQPT	3207R
EQPT	3208R	EQPT	3208R	EQPT	3208R
EQPT	3209R	EQPT	3209R	EQPT	3209R
EQPT	3210R	EQPT	3210R	EQPT	3210R
EQPT	3211R	EQPT	3211R	EQPT	3211R
EQPT	3212R	EQPT	3212R	EQPT	3212R
EQPT	3213R	EQPT	3213R	EQPT	3213R
EQPT	3214R	EQPT	3214R	EQPT	3214R
EQPT	3215R	EQPT	3215R	EQPT	3215R
EQPT	3216R	EQPT	3216R	EQPT	3216R
EQPT	3217R	EQPT	3217R	EQPT	3217R
EQPT	3218R	EQPT	3218R	EQPT	3218R
EQPT	3219R	EQPT	3219R	EQPT	3219R
METF	3250R	METF	3250R	METF	3250R
METF	3251R	METF	3251R	METF	3251R
MPB	3300R	MPB	3300R	MPB	3300R
MPB	3301R	MPB	3301R	MPB	3301R
MPB	3302R	MPB	3302R	MPB	3302R
MPB	3303R	MPB	3303R	MPB	3303R
MPB	3304R	MPB	3304R		
MPB	3305R	MPB	3305R		
MPB	3306R	MPB	3306R		
MPB	3307R	MPB	3307R		
LFA	3350R	LFA	3350R	LFA	3350R
LFA	3351R	LFA	3351R	LFA	3351R
MIA	3400R	MIA	3400R	MIA	3400R

MIA	3401R	MIA	3401R	MIA	3401R
MIA	3402R	MIA	3402R	MIA	3402R
MGT	3450R	MGT	3450R	MGT	3450R
MGT	3451R	MGT	3451R	MGT	3451R
MPC	3500				
MPC	3505R	MPC	3505R	MPC	3505R
CORE PLUS (4000 Phase)					
STAGE	CODE	**STAGE**	**CODE**	**STAGE**	**CODE**
ACAD	4000				
ACAD	4001				
ACAD	4002				
ACAD	4021				
ACAD	4022				
LFA	4100R	LFA	4100R	LFA	4100R
MIA	4150R	MIA	4150R		
MIA	4152R	MIA	4152R		
MGT	4254R	MGT	4254R	MGT	4254R
MMTM	4300				
MMTM	4301				
MMTM	4302R	MMTM	4302R		
MMTM	4303R	MMTM	4303R	MMTM	4303R
MMTM	4304R	MMTM	4304R	MMTM	4304R
MMTM	4305R	MMTM	4305R		
MMTM	4306R	MMTM	4306R		
"S" PREFIX AND BLUE FONT = SIMULATOR EVENT					
"R" SUFFIX AND GRAY 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. See Chapter 6 of the Aviation T&R Program Manual on regaining lost qualifications.

4.5.1 Instructor Designations

METOC (6842) INSTRUCTOR DESIGNATIONS (5000 PHASE)		
INSTRUCTOR DESIGNATION	**TRACKING CODE**	**EVENTS**
BASIC INSTRUCTOR (BI)	6320	5000, 5010, 5020
SENIOR INSTRUCTOR (SI)	6321	5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320
WEAPONS AND TACTICS INSTRUCTOR (WTI)	6322	6000

4.5.2 Requirements, Certifications, Qualifications, and Designations

METOC ANALYST 6842	
REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS, AND DESIGNATIONS (RCQD) (6000 Phase)	
RCQD	**EVENTS**
Qualify as a METOC Observer (MO) (QUAL 6200)	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 3100, 3101, 3102, 3150, 3151
Qualify as an Apprentice METOC Analyst Forecaster (AMAF). (QUAL 6201)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3101, 3102, 3150, 3151, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Qualify as a Journeyman METOC Analyst Forecaster (JMAF). (QUAL 6202)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Qualify as a METOC Support Team Observer (MSTO). (QUAL 6203)	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2700, 2701, 2702, 2703, 3004, 3026, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 6200, 6211
Qualify as a METOC Support Team Forecaster (MSTF). (QUAL 6204)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 3001, 3002, 3003, 3004, 3022, 3023, 3024, 3025, 3026, 3027, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Qualify as a METOC Support Team Leader (MSTL). (QUAL 6205)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2101, 2108, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3505, 6200, 6201, 6202, 6203, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Qualify as a Marine Air Traffic Control Mobile Team (MMTM). (QUAL 6206)	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2400, 2401, 2700, 2701, 2702, 2703, 2704, 3004, 3026, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 4300, 4301, 4302, 4303, 4304, 4305, 4306, 6200, 6203, 6320
Certify as a Station MO. (CERT 6210)	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2350, 2400, 3100, 3101, 3102, 3150, 3151, 3200, 3201, 6200
Certify as a Tactical MO. (CERT 6211)	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 6200
Certify as a Tactical AMAF. (CERT 6212)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2402, 2403, 2404, 2405, 2406, 2407, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3101, 3102, 3150, 3151, 3202, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Designation as a Regional METOC Center Chief (RMCC). (DESG 6300)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Designation as a Marine Air Traffic Control Detachment METOC Chief (MMC). (DESG 6301)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067
Designation as a Intel METOC Chief (IMC). (DESG 6302)	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

4.6 6842 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

METOC ANALYST FORECASTER 6842 BASIC POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
1-32	METOC ANALYST FORECASTER FORECASTER COURSE	KEESLER AFB, MS
33-64	CORE SKILL TRAINING	FMF UNIT
65-116	MISSION SKILL TRAINING	FMF UNIT
AS REQ	CORE PLUS TRAINING	FMF UNIT

4.6.2 Refresher POI

METOC ANALYST FORECASTER 6842 REFRESHER POI		
WEEKS[1]	**PHASE OF INSTRUCTION**	**UNIT RESPONSIBLE**
VARIES	CORE SKILL TRAINING	FMF UNIT
VARIES	MISSION SKILL TRAINING	FMF UNIT
VARIES	CORE PLUS	FMF UNIT

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

4.7 SYLLABUS NOTES.

4.7.1 Environmental Conditions Matrix.

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

4.7.2 Device Matrix.

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

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

4.7.3 Program of Instruction Matrix.

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

4.7.4 Event Terms.

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

4.8 ACADEMIC PHASE (0000 PHASE)

4.8.1 Purpose. **RESERVED FOR FUTURE USE**

4.8.2 General.

4.8.2.1 Prerequisite.

4.8.2.2 Admin Notes.

4.8.2.3 Stage.

4.9 CORE SKILL INTRODUCTION PHASE (1000 PHASE)

4.9.1 Purpose. To provide entry-level instruction to develop the basic skills necessary for a Marine to meet the requirements to be assigned MOS 6842, METOC Analyst Forecaster. This training includes meteorology, computers, satellite, meteorological reports, chart analysis, air mass sounding (Skew-T) analysis, space environment, and climatology. Upon graduation from the Meteorological and Oceanographic Analyst Forecaster Course (MOAF), the Marine is designated with the MOS 6842.

4.9.2 General.

4.9.2.1 Prerequisite. Meet the requirements delineated in the MCO 1200.17 (MOS Manual).

4.9.2.2 Admin Notes. MOAF (CID F02WAK1) located at Keesler AFB, MS.

4.9.2.3 Stage. The following stage is included in the Core Skill Introduction Phase of training.

PAR NO.	STAGE NAME
4.9.3	METEOROLOGY AND OCEANOGRAPHY ANALYST FORECASTER (MOAF)

4.9.3 METEOROLOGY AND OCEANOGRAPHY ANALYST FORECASTER (MOAF) STAGE

4.9.3.1 Purpose. To teach the Marine in the required skills to perform as a basic Meteorology and Oceanography Analyst Forecaster, MOS 6842.

4.9.3.2 General

Prerequisite. IAW MOS Manual (MCO 1200.17_)

Admin Notes. None

Crew Requirements. None

MOAF-1000 * B E G

Goal. Identify facts about space environment

Requirement. Describe fundamental principles of:

1. Space environment.
2. Impacts to operations.
3. Solar network.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement .

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFSPCPAM 15-2
2. USAFETAC/ TN-90/001
3. USAFETAC TN 91/006
4. AFMAN 15-129
5. AFWAMAN 15-1
6. FYI 37 & 51
7. Space Weather CBT

MOAF-1001 * B E G

Goal. Identify facts about the elements of a weather observation.

Requirement. Describe fundamental principles of:

1. Sky condition.
2. Visibility.
3. Atmospheric phenomenon.
4. Temperature.
5. Wind.
6. Atmospheric pressure.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement to a minimum.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-111
2. Cloud Types for Observers
3. COMOCNOPSINST 3141.2

MOAF-1002 * B E G

Goal. Relate principles about the Earth and its atmosphere.

Requirement. Describe fundamental principles of:

1. Meteorology.
2. Geography.
3. Oceanography.
4. Climatology.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. AFCCC 14WS website https://notus2.14WS.af.mil
3. AFH 11-203(v1)
4. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
5. Meteorology for Scientists and Engineers 2nd Edition By: Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
6. Aerographers' Mate, 1 & C, 1995
7. Aerographers' Mate, 2, 1995
8. Oceanic and Riverine Applications QTP

MOAF-1003 * B E G

Goal. Relate principles about atmospheric physics.

Requirement. Describe fundamentals of atmospheric motion.
1. Standard units of measure.
2. Fundamental concepts.
3. Atmospheric pressure.
4. Parcel pressure.
5. Atmospheric heating.
6. Atmospheric temperature.
7. Water vapor/moisture.
8. Energy.
9. Hydrologic cycle.
10. Meteorological processes.

Performance Standard. In accordance with the POI, complete the

knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. AFH 11-203(v1)
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date: 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1004 * B E G

Goal. Relate principles about atmospheric dynamics.

Requirement. Describe fundamentals of:

1. Newton's three laws of motion.
2. Buys Ballot's Law.
3. Forces affecting parcel movement.
4. Momentum and winds.
5. Vorticity.
6. Dynamic processes.
7. Principles of global circulation.
8. Three cell model - Northern Hemisphere.
9. Jet streams.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. AFH 11-203(v1)
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date: 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1005 * B E G

Goal. Relate principles about hemispheric weather features.

Requirement. Discuss the fundamental of:

1. Definitions and basic concepts.
2. Hemispheric features.
3. Other barotropic circulations.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. AFH 11-203(v1)
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date: 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
5. COMET Skew-T Mastery CBT

MOAF-1006 * B E G

Goal. Relate principles about continental weather features.

Requirement. Discuss the fundamentals of:

1. Definitions and basic concepts.
2. Continental features.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. AFH 11-203(v1)
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date: 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By: Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1007 * E G

Goal. Relate principles about regional weather features.

Requirement. Discuss the fundamentals of:

1. Tertiary circulations.
2. Thunderstorm basic concepts.
3. Hazardous weather elements.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. AFH 11-203(v1)
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date: 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1008 * B E G

Goal. Relate principles about tropical weather features.

Requirement. Discuss the fundamentals of:

1. Tropics.
2. Hemispheric features.
3. Continental features.
4. Regional features - tropical waves.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. AFH 11-203(v1)
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date: 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
5. National Hurricane Center

MOAF-1009 * B E G

Goal. Relate principles about the types of meteorological satellite systems.

Requirement. Discuss the fundamentals of:

1. Meteorological satellite systems.
2. Detection process.
3. Advantages and limitations.
4. Imagery colorization.
5. Imagery types.
6. Image resolution.
7. Interpretation considerations.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. GOES Users Guide
3. SSM/I Interpretation Guide
4. WRTA 80-15

MOAF-1010 * B E G

Goal. Relate satellite imagery to meteorological and non-meteorological features or events.

Requirement. Discuss the fundamentals of:

1. Non-cloud features.
2. Cloud features.
3. Meteorological events.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. GOES Users Guide
3. SSM/I Interpretation Guide
4. WRTA 80-15

MOAF-1011 * B E G

Goal. Decode a METAR observation

Requirement. Given canned observations, decode:

1. Symbolic format.
2. Observation type.
3. Station identifier.
4. Date and time of observation.
5. Modifier.
6. Wind.
7. Variable wind direction.
8. Prevailing visibility.
9. Runway visual range (RVR).
10. Present weather.
11. Sky condition.
12. Temperatures.
13. Pressure.
14. Remarks.

Performance Standard. Using applicable data, decode a METAR observation.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-111
2. Cloud Types for Observers
3. COMOCNOPSINST 3141.2

MOAF-1012 * B E G

Goal. Encode/Decode Pilot Reports (PIREPS).

Requirement. Given all information for a PIREP, complete the following:

1. Encode the PIREP.
2. Decode the PIREP.

Performance Standard. Using applicable reference, encode/decode three pilot reports.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. FMH-12
2. NAVMETOCCOMINST 3142.1
3. NMOC FORM 3140/10 (Rev. 7/96)

MOAF-1013 * B E G

Goal. Decode land and ship synoptic data.

Requirement. Given canned data, in land and/or ship symbolic format, decode the observation.

Performance Standard. Given FCM-T1, Surface Synoptic Code Tables, and applicable data, decode Land and Ship Synoptic observations .

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. FMH-2
2. FM 13-XI
3. AFVA 15-117
4. FM 12-XI

MOAF-1014 * B E G

Goal. Decode a Rawinsonde observation.

Requirement. Given a coded rawinsonde observation, decode:

1. Symbolic format.
2. Decode TTAA.
3. Decode TTBB.
4. Decode PPBB.

Performance Standard. Using applicable data, decode a Rawinsonde observation.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. COMET Skew-T Mastery CBT
3. Plotting and Analyzing a Skew-T Log-P Diagram by:
Cyclogenesis, Inc. ISBN# 1-881877-14-0

MOAF-1015 * B E G

Goal. Decode a plotted Skew-T/Log-P diagram.

Requirement. Given a plotted Skew-T/Log P diagram, analyze:

1. Chart features.
2. Basic analysis techniques.

Performance Standard. Using applicable data, decode a Skew-T/Log-P diagram.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002
2. COMET Skew-T Mastery CBT
3. Plotting and Analyzing a Skew-T Log-P Diagram by: Cyclogenesis, Inc. ISBN# 1-881877-14-0

MOAF-1016 * B E G

Goal. Analyze upper-air and surface charts.

Requirement. Discuss, then analyze the following basic features given canned upper-air and surface charts:

1. Purpose of chart analysis.
2. Three step analysis process.
3. Basic analysis charts.
4. Standard plot models.
5. General chart preparation requirements.
6. 300 mb chart requirements.
7. 500 mb chart requirements.
8. 700 mb chart requirements
9. 850 mb chart requirements.
10. Surface analysis chart requirements.

Performance Standard. Given appropriate chart sets, analyze upper-air and surface charts.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. WRTA 81-14
2. CRTA 91-19
3. AFWA/TN 98-002
4. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
5. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1017 * B E G

Goal. Select effective quality assurance program procedures.

Requirement. Discuss the fundamentals of the following:

1. Quality assurance.
2. Verification programs.
3. Quality control (QC) procedures.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFH 33-337

MOAF-1018 * B E G

Goal. Identify facts about the components of an effective regime forecast process.

Requirement. Discuss the fundamentals of:

1. Regimes.
2. Macroscale regimes.
3. The Regime Forecast Process.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWA/TN 98-002

MOAF-1019 * B E G

Goal. Relate principles about macroscale weather analysis techniques.

Requirement. Discuss the fundamentals of:

1. Atmospheric motion.
2. Atmospheric dynamics.
3. Characteristics of long waves.
4. Long-wave patterns - two types.
5. Special case - blocking systems.
6. Jet streams.
7. Analysis Tools.
8. Interpreting Models.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. WRTA 81-14
2. AFWA/TN 98-002

MOAF-1020 * B E G

Goal. Analyze macroscale weather features.

Requirement. Utilizing the following METOC products, identify macroscale atmospheric features:

1. Satellite imagery - water vapor and infrared.
2. 500-mb Wave Hemispheric chart.
3. Model chart analysis requirements.
4. Initialize model products.

Performance Standard. Given hemispheric weather charts and satellite imagery, analyze macroscale weather features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. WRTA 81-14
2. AFWA/TN 98-002

MOAF-1021 * B E G

Goal. Relate principles about synoptic scale weather analysis techniques.

Requirement. Discuss the fundamentals of:

1. Physics.
2. Dynamics.
3. Upper atmospheric weather features.
4. Lower atmospheric weather features.
5. Surface layer weather features.
6. Vertical interactions.
7. Analysis process.
8. Analysis tools.
9. Model interpretation.
10. Tropical weather.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1022 * B E G

Goal. Identify facts about synoptic weather regimes.

Requirement. Discuss the fundamentals of:

1. Weather regime characteristics.
2. Dependent on macroscale environment.
3. Barotropic regime (4) Baroclinic regimes.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1023 * B E G

Goal. Analyze synoptic scale weather features.

Requirement. Utilizing satellite imagery, upper air charts and surface charts, discuss and identify the following:

1. Chart descriptions.
2. Analysis process.
3. Analyze the hemispheric satellite image.
4. Analyze the 500-mb hemispheric chart.
5. Streamline CONUS water vapor image.
6. Analyze CONUS IR image.
7. Analyze 300 mb chart.
8. Analyze 500 mb chart.
9. Analyze 700 mb chart.
10. Analyze 850 mb chart.
10. Analyze surface chart.
11. 1,000-500-mb Thickness chart.
12. 500-mb Heights and Vorticity chart.
13. Initialize model products.
14. Regime analysis briefing.

Performance Standard. Given satellite imagery, upper air charts and surface charts for the United States, analyze synoptic scale weather features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129

2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1024 * B E G

Goal. Encode METAR observations.

Requirement. Given a scenario, perform the following functions:

1. State general information.
2. Identify service specific information.
3. Identify form entries.
4. State required entries on every METAR observation.
5. Properly encode a METAR observations.

Performance Standard. Given applicable regulations and an observation scenario, encode three METAR observations.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-111
2. COMOCNOPSINST 3142.2
3. CNMOC 3140/12

MOAF-1025 * B E G

Goal. Relate principles about mesoscale weather analysis techniques.

Requirement. Discuss the fundamentals of:

1. Atmospheric stability.
2. Mass continuity theory.
3. Convective severe weather.
4. Non-convective severe weather.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1026 * B E G

Goal. Identify facts about radar theory and radar system components.

Requirement. Identify the following:

1. National weather radar network.
2. System user classifications.
3. Major components.
4. Volume coverage pattern.
5. Electromagnetic energy.
6. Beam characteristics.
7. Pulse characteristics.
8. Atmospheric interactions.
9. Velocity.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. FMH-11
2. WSR-88D Operating Instructions

MOAF-1027 * B E G

Goal. Relate principles about weather radar products.

Requirement. Discuss the fundamentals of:

1. Single Polarization Base Products.
2. Dual Polarization Base Products.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. FMH-11
2. WSR-88D Operating Instructions

MOAF-1028 * B E G

Goal. Analyze mesoscale weather features.

Requirement. Perform the following:

1. State general requirements.
2. Streamline low-level features.
3. Analyze 300-mb chart.
4. Analyze 500-mb chart.
5. Analyze 700-mb chart.
6. Analyze 850-mb chart.
7. Analyze surface features on a local area work chart.
8. Analyze Skew-T/Log-P diagram.

Performance Standard. Given a Skew-T diagram, upper air and surface charts, and satellite imagery, analyze mesoscale weather features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1029 * B E G

Goal. Relate principles about macroscale weather forecast techniques.

Requirement. Discuss the fundamentals of:

1. The forecast regime process - forecast phase.
2. Macroscale weather features.
3. Macroscale regimes.
4. Long-wave patterns.

5. Prognosis rules and forecast techniques.
6. Numerical weather model types.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. WRTA 81-14
2. AFWA/TN 98-002

MOAF-1030 * B E G

Goal. Identify facts about numerical model processes.

Requirement. Discuss the the fundamentals of:

1. Definitions.
2. Deterministic models.
3. Stochastic model.
4. Deterministic and stochastic examples.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN 98-002

MOAF-1031 * B E G

Goal. Relate principles about flight hazard forecast techniques.

Requirement. Discuss the following fundamentals:

1. Turbulence

2. Icing

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1032 * B E G

Goal. Relate principles about synoptic scale weather forecast techniques.

Requirement. Discuss the fundamentals of:

1. Synoptic weather features.
2. Vertical consistency.
3. Prognosis rules and forecast techniques.
4. Using models to produce forecast.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1033 * B E G

Goal. Take a surface observation.

Requirement. Utilizing the METAR code, take and record a surface

observation:

1. Evaluate outside weather elements.
2. Evaluate inside weather elements.

Performance Standard. Given appropriate weather data, references and equipment, encode a METAR observation.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-111
2. COMOCNOPSINST 3142.2
3. CNMOC 3140/12

MOAF-1034 * B E G

Goal. Forecast tropical weather elements.

Requirement. Perform the following functions:

1. Identify tropical weather features.
2. Apply tropical forecast techniques.
3. Identify tropical cyclones and other tropical weather elements.

Performance Standard. Given analyzed charts and diagrams, forecast tropical weather elements.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1035 * B E G

Goal. Forecast macroscale and synoptic scale weather features.

Requirement. Perform the following functions:

1. Review climatology and continuity.
2. Perform analysis features.
3. Apply prognosis rules and forecast techniques.
4. Initialize and verify models.
5. Produce a 24-hour forecast of macroscale and synoptic scale features on forecast charts.
6. Provide briefing of analysis and forecast products.
7. Compare new analysis chart to previous forecast chart.
8. Chart analysis software – Leading Environmental Analysis and Display System (LEADS).
9. Build presentation using PowerPoint – Format.

Performance Standard. Given a computer to display appropriate weather charts and references, forecast macroscale and synoptic scale weather features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1036 * B E G

Goal. Relate principles about mesoscale and microscale weather forecast techniques.

Requirement. Identify the following:

1. Precipitation forecast techniques.
2. Obstructions forecast techniques.
3. Low-level turbulence forecast techniques.
4. Pressure forecast techniques.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1037 * B E G

Goal. Relate principles about mesoscale and microscale weather forecast techniques.

Requirement. Identify the following:

1. Temperature forecast techniques.
2. Cloud forecast techniques.
3. Icing forecast techniques.
4. Wind forecast techniques.

Performance Standard. In accordance with the POI, complete the knowledge based objective measurement.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1038 * B E G

Goal. Identify meteorological parameters from microscale numerical weather prediction text products.

Requirement. Utilizing the products below, identify METOC parameters:

1. Numerical weather prediction products.
2. Numerical guidance.
3. Model output statistic (MOS) products.

Performance Standard. Using appropriate weather data, select meteorological parameters from microscale numerical weather prediction text products with at least 70% accuracy and one instructor assist.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN 98-002

MOAF-1039 * B E G

Goal. Forecast mesoscale and microscale weather features.

Requirement. Perform the following functions:

1. Evaluate synoptic scale.
2. Determine predominant synoptic regimes.
3. Evaluate meteogram.
4. Evaluate current and forecast Skew-Ts.
5. Apply mesoscale/microscale forecast techniques.

Performance Standard. Given a computer to display appropriate weather data and references, forecast mesoscale and microscale weather features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFMAN 15-129
2. AFWATN/98-002
3. NWS Forecaster Handbook No. 1

MOAF-1040 * B E G

Goal. Prepare a Terminal Aerodome Forecast (TAF).

Requirement. Perform the following functions:

1. Describe Terminal Aerodrome Forecast (TAF) code.
2. Complete TAF worksheet.

Performance Standard. Using appropriate weather data and a computer, prepare a terminal aerodrome forecast.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3143.1_
2. AFMAN 15-124
3. FM51-XII TAF Code

MOAF-1041 * B E G

Goal. Demonstrate proficiency of atmospheric physics.

Requirement. Demonstrate knowledge of fundamental concepts of the following subjects:

1. Atmospheric structure.
2. Atmospheric variables.
3. Pressure.
4. Temperature and moisture.
5. Fundamentals of atmospheric concepts.
6. Advection.
7. Thickness values.
8. Cloud formation and dissipation.
9. Precipitation types.

Performance Standard. Define the subjects listed and determine how each subject affects the other.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. UCAR CoMet In-Depth Physics Lessons
2. UCAR CoMet S290 Unit 4: Basic Weather Processes
3. UCAR CoMet S-290 Unit: 5 Temperature and Relative Humidity Relationships
4. UCAR CoMet Topics in Precipitation Type Forecasting
5. UCAR CoMet Principles of Convection 1: Buoyancy and CAPE
6. UCAR CoMet Frongenetical Circulations and Stability (Dr. James Moore)
7. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date

02 July 2008 ISBN-10: 0495555738 AFWA TN 98-002 (revised Feb. 2012)

8. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1042 * B E G

Goal. Describe the dynamic atmospheric principles.

Requirement. Describe fundamental concepts of the following subjects:

1. Rotational and circular motion.
2. Atmospheric forces.
3. Divergence/convergence (speed & directional).
4. Vorticity.
5. Jet streams.
6. Atmospheric wave terminology.
7. Vertical motions.
8. Air masses.
9. Frontal systems.
10. Evolution of frontal systems.
11. Synoptic scale systems.
12. Evolution of synoptic scale baroclinic systems.
13. Local modification to large-scale circulations.

Performance Standard. Explain each of the concepts listed and state the development and dissipation processes, where applicable.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
2. AFWA TN 98-002 (revised Feb. 2012), Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1043 * B E G

Goal. Analyze and interpret a thickness chart.

Requirement. Given a SFC-500mb thickness chart, analyze and depict the features listed:

1. Warm/cold air advection.
2. High and low pressure centers.
3. Fronts.

4. 540 Dam line.
5. Troughs.
6. Label air masses.
7. Jet stream.

Performance Standard. Complete requirement within 30 minutes of chart receipt. Discuss meteorological reasoning for placement of features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
2. AFWA TN 98-002 (revised Feb. 2012), Air Force Weather Training Package
3. Analysis and Prognosis, Trainee Booklet, Trainer's Guide, Evaluation Package, Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1044 * B E G

Goal. Analyze and interpret a vorticity chart.

Requirement. Given a 500mb vorticity chart, analyze and depict the following features:

1. Positive/negative vorticity advection areas.
2. Shear lobes.
3. Advection lobes.
4. Jet stream.
5. X-N distribution.

Performance Standard. Complete requirement within 30 minutes of chart receipt. Explain meteorological reasoning for placement of features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738, AFWA TN 98-002 (revised Feb. 2012)
2. Air Force Weather Training Package, Analysis and Prognosis, Trainee Booklet, Trainer's Guide, Evaluation Package
3. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1045 * B E G

Goal. (Re)Analyze and interpret upper atmospheric weather charts.

Requirement. Provided standard level chart set (850mb, 700mb, 500mb, 300mb, and 200mb) analyze the mandatory level constant pressure charts for features listed below (as applicable):

1. Isoheights.
2. Isotherms.
3. Areas of significant moisture.
4. Major short wave axis, troughs and ridges.
5. Minor short wave axis, troughs and ridges.
6. High and low height centers.
7. Warm and cold pockets.
8. Upper fronts.
9. Jet stream features.

Performance Standard. Complete requirement within 30 minutes of chart receipt. Explain meteorological reasoning for placement of features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
2. AFWA TN 98-002 (revised Feb. 2012), Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1046 * B E G

Goal. Analyze and interpret a surface chart.

Requirement. Given a surface chart, depict the following features:

1. Isobars.
2. High and low pressure centers.
3. Fronts.

4. Highlight weather symbols.
5. Troughs.
6. Label air masses.
7. Dry lines.
8. Isallobars.
9. Isodrosotherms.
10. Identify outflow boundaries.
11. Nephanalysis.

Performance Standard. Complete requirement within 45 minutes of chart receipt and explain meteorological reasoning for placement of features.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
2. AFWA TN 98-002 (revised Feb. 2012), Air Force Weather Training Package, Analysis and Prognosis, Trainee Booklet, Trainer's Guide, Evaluation Package, Unified Surface Analysis Manual
3. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1047 * B E G

Goal. Brief synoptic chart set.

Requirement. Utilizing an analyzed chart set, brief meteorological features from the following products:

1. Surface chart.
2. Constant pressure charts.
3. 0-500mb Hemispheric Wave chart
4. Support charts:
   (a) Satellite Imagery.
   (b) Vorticity.
   (c) 1000-500mb Thickness.

Performance Standard. Conduct brief until individual demonstrates mastery of sound atmospheric fundamentals.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
2. AFWA TN 98-002 (revised Feb. 2012)
3. Air Force Weather Training Package, Analysis and Prognosis, Trainee Booklet, Trainer's Guide, Evaluation Package
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MOAF-1048 * B E G

Goal. Encode/Decode a TAF.

Requirement. In accordance with the reference, encode/decode 3 TAFs.

Performance Standard. Complete the requirement by practical application.

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3143.1_, Terminal Aerodrome Forecast (TAF) and the FM51-XII TAF Code
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag).

4.10 CORE SKILL PHASE (2000 PHASE)

4.10.1 Purpose. To train METOC Analyst Forecaster in the skills necessary to master the core competency of meteorology (operational atmospheric forecasting). This phase of training also introduces follow-on skills to broaden individual skill beyond that of atmospheric forecasting. Core skills and supporting events are specific mission-related task areas that support METOC METLs. Core skills are grouped into T&R events and are appropriately labeled as stages of training. The core model requires individual and unit proficiency in 2000 level core skills in order to perform all tasks in the unit METL and to execute the unit core capability. This phase is essential to wartime employment of the unit. Individuals should normally complete this phase of training within the first year of assignment to a unit (approximately 14-18 months).

4.10.2 General

4.10.2.1 Prerequisites. None

4.10.2.2 Prerequisite. None

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

PAR NO.	STAGE NAME
4.10.3	ACADEMIC (ACAD)
4.10.4	METEOROLOGICAL SURFACE OBSERVATIONS (MSO)
4.10.5	UPPER ATMOSPHERIC SENSING (UAS)
4.10.6	ASTRONOMICAL/TIDAL DATA (ATD)
4.10.7	FAMILIARIZATION (FAM)
4.10.8	EQUIPMENT (EQPT)
4.10.9	APPLIED METEOROLOGICAL SCIENCE (AMS)
4.10.10	METOC DATA ANALYSIS (MDA)STAGE
4.10.11	METEOROLOGICAL FORECASTING (METF)
4.10.12	METOC PRODUCT BRIEFING (MPB)
4.10.13	COMMUNICATIONS (COMM)
4.10.14	METOC DOCTRINE (MDN)
4.10.15	ADMINISTRATION (ADM)
4.10.16	MANAGEMENT (MGT)
4.10.17	LITTORAL FORECASTING/ANALYSIS (LFA)
4.10.18	METOC IMPACT ASSESSMENT (MIA)

4.10.3 ACADEMICS (ACAD) STAGE

4.10.3.1 Purpose. The stage outlines all relevant computer based training modules, correspondence courses, instructor-led distance learning courses, and formal resident courses to assist in the completion of events within the 2000 level phase of training.

4.10.3.2 General.

Prerequisite. None

Admin Notes. None

Crew Requirements. None

ACAD-2000 3.0 * B E G

Goal. Complete 'Aerographer's Mate Third Class METOC Training Manual (AG3)' Module.

Requirement. Perform the module requirements of the 'Aerographer's Mate Third Class METOC Training Manual' Module. (NKO Course Code: METOC-045-841-612-001)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ACAD-2001 3.0 * B E G

Goal. Complete 'Skew-T Mastery' Module.

Requirement. Perform the module requirements of the 'Skew-T Mastery' Module from NKO or COMET UCAR. (NKO Course Code: METOC 045-833-106-009)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2002 2.0 * B E G

Goal. Complete 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module.

Requirement. Perform the module requirements of the 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2003 10.0 * B E G

Goal. Complete 'Aerographer's Mate Second Class (AG2) Vol I METOC Training Manual' Module.

Requirement. Perform the module requirements of the 'Aerographer's Mate Second Class Vol I METOC Training Manual' Module. (NKO Course Code: METOC-045-841-610-002)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Second Class Vol I METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ACAD-2004 40.0 * B E G

Goal. Complete 'Aerographer's Mate Second (AG2) Class Vol II METOC Training Manual' Module.

Requirement. Perform the module requirements of the 'Aerographer's Mate Second Class Vol II METOC Training Manual' Module. (NKO Course Code: METOC-045-841-611-003)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. 2000, 2003

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. Aerographer's Mate Second Class Vol II METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ACAD-2005 2.0 * B E G

Goal. Complete 'Forecasting Radiation Fog' Module.

Requirement. Perform the module requirements of the 'Forecasting Radiation Fog' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-FRF-2.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2006 3.0 * B E G

Goal. Complete 'Dynamically Forced Fog' Module.

Requirement. Perform the module requirements of the 'Dynamically Forced Fog' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-DFF-1)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2007 3.0 * B E G

Goal. Complete 'Local Influences on Fog and Low Stratus' Module.

Requirement. Perform the module requirements of the 'Local Influences on Fog and Low Stratus' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2008 1.0 * B E G

Goal. Complete 'Thermally-Forced Circulation I: Sea Breezes' Module.

Requirement. Perform the module requirements of the 'Thermally-Forced Circulation I: Sea Breezes' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12007)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2009 1.0 * B E G

Goal. Complete 'Thermally-Forced Circulation II: Mountain Valley Winds' Module.

Requirement. Perform the module requirements of the 'Thermally-Forced

Circulation I: Mountain Valley Winds' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12010)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004, 2008

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2010 3.0 * B E G

Goal. Complete 'Cold Air Damming' Module.

Requirement. Perform the module requirements of the 'Cold Air Damming' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12013)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2011 3.0 * B E G

Goal. Complete 'Coastally Trapped Wind Reversals' Module.

Requirement. Perform the module requirements of the 'Coastally Trapped Wind Reversals' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12016)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2012 2.0 * B E G

Goal. Complete 'Gap Winds' Module.

Requirement. Perform the module requirements of the 'Gap Winds' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12022)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2013 1.0 * B E G

Goal. Complete 'Flow Interaction with Topography' Module.

Requirement. Perform the module requirements of the 'Flow Interaction with Topography' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-FIWT-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2014 1.0 * B E G

Goal. Complete 'Mountain Waves and Downslope Winds' Module.

Requirement. Perform the module requirements of the 'Mountain Waves and Downslope Winds' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-MWADW-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2015 3.0 * B E G

Goal. Complete 'Atmospheric Dust' Module.

Requirement. Perform the module requirements of the 'Atmospheric Dust' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2016 2.0 * B E G

Goal. Complete 'Forecasting Dust Storms Version 2' Module.

Requirement. Perform the module requirements of the 'Atmospheric Dust' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2015

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2017 1.0 * B E G

Goal. Complete 'Low-Level Coastal Jets' Module.

Requirement. Perform the module requirements of the 'Low-Level Coastal Jets' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-841-106-015)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2018 2.0 * B E G

Goal. Complete 'Jet Streak Circulations' Module.

Requirement. Perform the module requirements of the 'Jet Streak Circulations' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-838-106-007)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2019 0.5 * B E G

Goal. Complete 'Vorticity Maxima and Comma Patterns' Module.

Requirement. Perform the module requirements of the 'Vorticity Maxima and Comma Patterns' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2020 0.4 * B E G

Goal. Complete 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module.

Requirement. Perform the module requirements of the 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2021 0.5 * B E G

Goal. Complete 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module.

Requirement. Perform the module requirements of the 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2022 1.0 * B E G

Goal. Complete 'Principles of Convection I: Buoyancy and CAPE' Module.

Requirement. Perform the requirements within the 'Principles of Convection I: Buoyancy and CAPE' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-BAC-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2023 1.0 * B E G

Goal. Complete 'Principles of Convection II: Using Hodographs' Module.

Requirement. Perform the module requirements of the 'Principles of Convection II: Using Hodographs' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-UH-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004, 2022

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2024 1.0 * B E G

Goal. Complete 'Principles of Convection III: Shear and Convective Storms' Module.

Requirement. Perform the module requirements of the 'Principles of Convection III: Shear and Convective Storms' Module from NKO or COMET UCAR. (NKO Course Code: NMOPD-SACS-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004, 2022, 2023

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2025 8.0 * B E G

Goal. Complete 'Lectures on Radar Applications in Mesoscale Meteorology' Module.

Requirement. Understand the following:

1. Microphysical Characterization of Precipitation Systems Using Dual-Polarization Radar Measurements
2. Single Doppler Retrieval and Assimilation Techniques for Use in Mesoscale Models
3. Analysis of Mesoscale Processes Using Wind Profiling Radars and Velocity Azimuth Display (VAD)
4. Airborne Doppler Radar Analysis of Tropical and Extratropical Mesoscale Systems

Performance Standard. Participate in guided discussion.

Instructor. SI (Lectures provided via COMET UCAR)

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2026 2.0 * B E G

Goal. Complete 'Landfalling Fronts and Cyclones' Module.

Requirement. Perform the module requirements of the 'Landfalling Fronts and Cyclones' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-838-106)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2027 1.0 * B E G

Goal. Complete 'How Mesoscale Models Work' Module.

Requirement. Perform the module requirements of the 'How Mesoscale Models Work' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12031)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2028 1.0 * B E G

Goal. Complete 'Definition of the Mesoscale' Module.

Requirement. Perform the module requirements of the 'Definition of the Mesoscale' Module from NKO or COMET UCAR. (NKO Course Code: CNET 12025)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2029 2.0 * B E G

Goal. Complete 'Introduction to Ensemble Prediction' Module.

Requirement. Perform the module requirements of the 'Introduction to Ensemble Prediction' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-838-106-005)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2030 2.0 * B E G

Goal. Complete 'Ten Common NWP Misconceptions' Module.

Requirement. Perform the module requirements of the 'Ten Common NWP Misconceptions' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-792-106-016)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener

2. https://www.meted.ucar.edu/index.php

ACAD-2031 5.0 * B E G

Goal. Complete 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module

Requirement. Perform the module requirements of the 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2032 4.0 * B E G

Goal. Complete 'Mesoscale Banded Precipitation' Module.

Requirement. Perform the module requirements of the 'Mesoscale Banded Precipitation' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-MBP-1)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2033 2.0 * B E G

Goal. Complete 'Intelligent Use of Model-Derived Products -Version 2' Module.

Requirement. Perform the module requirements of the 'Intelligent Use of Model-Derived Products -Version 2' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-833-106-042)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2034 0.5 * B E G

Goal. Complete 'Effective Use of NWP in the Forecast Process: Introduction' Module

Requirement. Understand the following:

1. How human forecasters add value to NWP.
2. How understanding NWP adds value.

Performance Standard. Obtain completion certificate.

Instructor. SI (Lectures provided via COMET UCAR)

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2035 1.5 * B E G

Goal. Complete 'Influence of Model Physics on NWP Forecasts-Version 2' Module.

Requirement. Perform the module requirements of the 'Influence of Model Physics on NWP Forecasts- Version 2' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2036 1.0 * B E G

Goal. Complete 'Introduction to Climatology' Module.

Requirement. Perform the module requirements of the 'Introduction to Climatology' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2037 1.0 * B E G

Goal. Complete 'Isentropic Analysis' Module.

Requirement. Perform the module requirements of the 'Isentropic Analysis' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2038 1.0 * B E G

Goal. Complete 'PBL in Complex Terrain - Part 1' Module.

Requirement. Perform the module requirements of the 'PBL in Complex Terrain - Part 1' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2039 1.2 * B E G

Goal. Complete 'PBL in Complex Terrain - Part 2' Module.

Requirement. Perform the module requirements of the 'PBL in Complex Terrain - Part 2' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2038

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2040 1.0 * B E G

Goal. Complete 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module.

Requirement. Perform the module requirements of the 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2041 2.0 * B E G

Goal. Complete 'Forecasting Aviation Icing: Icing Type and Severity' Module.

Requirement. Perform the module requirements of the 'Forecasting Aviation Icing: Icing Type and Severity' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-816-106-003)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2042 2.0 * B E G

Goal. Complete 'Writing Effective TAFS' Module.

Requirement. Perform the module requirements of the 'Writing Effective TAFS' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2043 2.0 * B E G

Goal. Complete 'Writing TAFS for Convective Weather' Module.

Requirement. Perform the module requirements of the 'Writing TAFS for Convective Weather' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2044 3.0 * B E G

Goal. Complete 'Writing TAFS for Winds and LLWS' Module.

Requirement. Perform the module requirements of the 'Writing TAFS for Winds and LLWS' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2042, 2043

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2045 2.0 * B E G

Goal. Complete 'Writing TAFs for Ceiling and Visibility' Module.

Requirement. Perform the module requirements of the 'Writing TAFs for Ceiling and Visibility' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2042

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2046 1.0 * B E G

Goal. Complete 'Introduction to Distributed Hydrologic Modeling' Module.

Requirement. Perform the module requirements of the 'Introduction to Distributed Hydrologic Modeling' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2047 2.0 * B E G

Goal. Complete 'Understanding the Hydrologic Cycle' Module.

Requirement. Perform the module requirements of the 'Understanding the Hydrologic Cycle' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-809-106-016)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2048 2.0 * B E G

Goal. Complete 'Introduction to Ocean Tides' Module.

Requirement. Perform the module requirements of the 'Introduction to Ocean Tides' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-804-106-006)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener

2. https://www.meted.ucar.edu/index.php

ACAD-2049 2.0 * B E G

Goal. Complete 'Rip Currents: Forecasting' Module.

Requirement. Perform the module requirements of the 'Rip Currents: Forecasting' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-792-106-008)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2050 2.0 * B E G

Goal. Complete 'Introduction to Ocean Currents' Module.

Requirement. Perform the module requirements of the 'Rip Currents: Forecasting' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-804-107-080)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2051 2.0 * B E G

Goal. Complete 'Introduction to the Verification of Hydrologic

Forecasts' Module.

Requirement. Perform the module requirements of the 'Introduction to the Verification of Hydrologic Forecasts' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2046, 2047

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2052 2.0 * B E G

Goal. Complete 'Unit Hydrograph Theory' Module.

Requirement. Perform the module requirements of the 'Unit Hydrograph Theory' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-809-106-015).

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2053 1.0 * B E G

Goal. Complete 'Space Weather Basics' Module.

Requirement. Perform the requirements of the 'Space Weather Basics' module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2054 3.0 * E G

Goal. Complete 'Weather Radar Fundamentals' Module.

Requirement. Perform the requirements of the 'Weather Radar Fundamentals' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2025

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2055 2.0 * B E G

Goal. Complete 'Basics of Visisbile and Infrared Remote Sensing' Module.

Requirement. Perform the requirements of the 'Basics of Visisbile and Infrared Remote Sensing' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2056 2.0 * B E G

Goal. Complete 'Microwave Remote Sensing: Clouds, Precipitation, and Water Vapor' Module.

Requirement. Perform the requirements of the 'Microwave Remote Sensing: Clouds, Precipitation, and Water Vapor' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2003, 2004, 2055

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2057 10.0 * B E G

Goal. Complete 'MCI 0118K Spelling' course.

Requirement. Perform the course requirements of the 'Spelling' course. (Course Number: 0118K)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute (MCI)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0118K, Spelling.

ACAD-2058 6.0 * B E G

Goal. Complete 'MCI 0119H Punctuation' course.

Requirement. Perform the course requirements of the 'Punctuation' course. (Course Number: 0119H)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0119H, Punctuation.

ACAD-2059 7.0 * B E G

Goal. Complete 'MCI 0120 Basic Grammar and Composition' course.

Requirement. Perform the course requirements of the 'Basic Grammar and Composition' course. (Course Number: 0120)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0120, Basic Grammar and Composition.

ACAD-2060 1.5 * B E G

Goal. Complete 'Operational Use of Wave Watch III' Module.

Requirement. Perform the module requirements of the 'Operational Use of Wave Watch III' Module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2061 2.0 * B E G

Goal. Complete 'Introduction to Ocean Models' Module.

Requirement. Perform the module requirements of the 'Introduction to Ocean Models' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-871-107-078)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2062 12.0 * B E G

Goal. Complete 'MCI 045D The Logistics/Embarkation Specialist' course.

Requirement. Perform the course requirements of the 'The Logistics/Embarkation Specialist' course. (Course Number: MCI 045D)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 045D, The Logistics/Embarkation Specialist.

ACAD-2063 4.0 * B E G

Goal. Complete 'MCI 2525B Communications Security' course.

Requirement. Perform the course requirements of the 'Communications Security' course. (Course Number: MCI 2525B)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within the MCI 2525B, Communications Security.

ACAD-2070 0.25 * B E G

Goal. Complete 'Topics in Tropical Meteorology' Module.

Requirement. Perform the module requirements of the 'Topics in Tropical Meteorology' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2071 2.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2072 1.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2073 2.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition,

Chapter 3: Global Circulation' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 3: Global Circulation' module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071, 2072

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2074 3.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071, 2072, 2073

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2075 2.0 * B E G

Goal. Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture and Precipiation' Module.

Requirement. Perform the module requirements of the 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture and Precipiation' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2070, 2071, 2072, 2073, 2074

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2076 0.5 * B E G

Goal. Complete 'Conceptual Models of Tropical Waves' Module.

Requirement. Perform the module requirements of the 'Conceptual Models of Tropical Waves' Module from COMET UCAR.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at:
https://www.meted.ucar.edu/index.php

ACAD-2077 2.0 * B E G

Goal. Complete 'Polar Satellite Products for the Operational Forecaster: Microwave Analysis of Tropical Cyclones' Module.

Requirement. Perform the module requirements of the 'Polar Satellite Products for the Operational Forecaster: Microwave Analysis of Tropical Cyclones' Module from NKO or COMET UCAR. (NKO Course Code: METOC-51T-0602)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2078 1.0 * B E G

Goal. Complete the 'Wave Types and Characteristics' Module.

Requirement. Perform the module requirements of the 'Wave Types and Characteristics' Module from NKO or COMET UCAR. (NKO Course Code: NMOPDC-WTC-1.0)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2079 1.0 * B E G

Goal. Complete 'Rip Currents: Nearshore Fundamentals' Module.

Requirement. Perform the module requirements of the 'Rip Currents: Nearshore Fundamentals' Module

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2000, 2003, 2004, 2078

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-2080 1.5 * B E G

Goal. Complete 'Shallow-Water Waves' Module.

Requirement. Perform the module requirements of the 'Shallow Water Waves' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-792-106-002)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener
2. https://www.meted.ucar.edu/index.php

ACAD-2081 0.6 * B E G

Goal. Complete 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module.

Requirement. Perform the module requirements of the 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module from NKO or COMET UCAR. (NKO Course Code: METOC-045-800-106-004)

Performance Standard. Obtain completion certificate from NKO or COMET UCAR.

Instructor. Web Based/NKO or COMET UCAR

Prerequisite. 2000, 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. https://www.aas.prod.nel.training.navy.mil/ELIAASv2p/EV2NKOLoginListener

2. https://www.meted.ucar.edu/index.php

ACAD-2082 7.0 * B E G

Goal. Complete 'Systems Approach to Training (SAT)' course.

Requirement. Perform the course requirements of the 'Systems Approach to Training (SAT)' course. (Course Number: UT01AO)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/MarineNet

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found at:
https://www.marinenet.usmc.mil/MarineNet/Home.aspx

ACAD-2083 7.0 * B E G

Goal. Complete 'MCI 0131K Correspondence Procedures' course.

Requirement. Perform the course requirements of the 'Correspondence Procedures' course. (Course Number: 0131K)

Performance Standard. Obtain completion certificate.

Instructor. Web-based/Marine Corps Institute

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for the course can be found within MCI 0131K, Correspondence Procedures.

ACAD-2090 8.0 * B E G

Goal. Complete 'Target Acquisitions Weapons Software (TAWS) Primer' resident course.

Requirement. Complete the course requirements in accordance with the

established POI. (Course Code: S-5B-0001)

Performance Standard. Complete the resident course.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-2091 16.0 * B E G

Goal. Complete 'Advanced Refractive Effects Prediction System (AREPS) Primer' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: S-5B-0012)

Performance Standard. Complete the resident course.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

4.10.4 METEOROLOGICAL SURFACE OBSERVATIONS (MSO) STAGE

4.10.4.1 Purpose. To develop proficiency in observing, recording and disseminating meteorological elements that comprise the surface meteorological reports (observations).

4.10.4.2 General

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at observing atmospheric phenomenon, units of measurement, quality control procedures and dissemination of parameters.

Crew Requirements. None

MSO-2200 2.0 * B E G

Goal. State and discuss the elements of a METAR surface observation.

Requirement. State and discuss, in detail, the elements that comprise a METAR surface observation. Discussion will include:

1. Sky condition.
2. Visibility.
3. Weather and obstructions to visibility.
4. Pressure.
5. Temperature.
6. Wind.
7. Remarks/additive data.
8. Local Criteria.
9. Rules governing the observing and recording elements.
10. Conversion or computation (as required).
11. Encoding

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2055, 2056

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 1 - Surface Weather Observations and Reports, September 2005, FCM-H1-2005, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-2201 1.0 * B E G

Goal. State the criteria for a SPECI surface observation.

Requirement. State the criteria that comprise a SPECI surface observation for the following elements:

1. Wind.
2. Visibility.
3. Weather and precipitation.
4. Sky and ceiling.
5. Volcanic eruption.

6. Runway conditions.
7. Aircraft mishap.
8. Miscellaneous.
9. Change in level of service.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2055, 2056, 2200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 1 - Surface Weather Observations and Reports, September 2005, FCM-H1-2005, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-2202 2.0 * B E L

Goal. Compute meteorological values.

Requirement. Given the appropriate elements, compute the following values:

1. Pressure altitude.
2. Density altitude.
3. Altimeter.
4. Wet Bulb Globe Temperature Index (WBGTI).
5. Wind chill temperature.
6. Absolute humidity.
7. Relative humidity.
8. Dew point.
9. Crosswind, headwind, and tailwind.
10. Fahrenheit to Celsius.
11. Celsius to Fahrenheit.
12. Knots to MPH.
13. MPH to knots.

Performance Standard. Compute meteorological values without error.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2055, 2056, 2200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)
3. A World of Weather 5th Edition Ch. 1 By: Lee M. Grenci and Jon M. Nese Published: 2010 ISBN: 978-0-7575-9426-7

MSO-2203 1.0 365 B,R,M E L

Goal. Decode surface/ship synoptic observations.

Requirement. Without the aid of reference, decode 10 surface synoptic observations and 10 ship synoptic observations.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2000, 2001, 2002, 2200, 2201

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 2 - Surface Synoptic Codes, December 1988, FCM-H2-1988, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-2204 2.0 * B E G

Goal. State and discuss the elements of a Terminal Aerodrome Forecast (TAF).

Requirement. State and discuss, in detail, the elements that comprise a TAF. Discussion will include:

1. Message header.
2. Wind group.
3. Visibility group.
4. Weather group.
5. Sky cover group.
6. Non-convective low level wind shear group.
7. Icing group.
8. Turbulence group.
9. Predicted lowest altimeter group.
10. Remarks.
11. Temperature group.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3143.1_, Terminal Aerodrome Forecast (TAF) and the FM51-XII TAF Code
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

MSO-2205 0.5 365 B,R,M E L/S

Goal. Decode a Terminal Aerodrome Forecast (TAF).

Requirement. In accordance with the reference, decode 15 TAFs.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2000, 2204

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3143.1_, Terminal Aerodrome Forecast (TAF) and the FM51-XII TAF Code
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

MSO-2206 1.0 * B E G

Goal. Define the criteria for setting weather warnings, watches, and advisories.

Requirement. Without the aid of reference, define criteria for setting weather warnings, watches, and advisories.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. OPNAVINST 3140.24_ / Local Destructive Wx Order
2. MCWP 3-35.7
3. Current operations Annex H

4.10.5 UPPER ATMOSPHERIC SENSING (UAS) STAGE

4.10.5.1 Purpose. To develop proficiency sensing and collecting data above the Earth's surface.

4.10.5.2 General

Prerequisite. 2001

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at the analyzation of upper atmospheric sounding and upper air observational equipment.

Crew Requirements. None

UAS-2250 1.0 365 B,R,M E L

Goal. Decode upper air messages.

Requirement. Without the aid of reference, decode 5 upper atmospheric soundings and exhibit an understanding of the scales and features of a Skew-T, Log P diagram by completing the following:

1. Decode upper atmospheric sounding per applicable references.
2. Identify scales and use of scales located on the Skew-T, Log P diagram.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2000, 2001

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Federal Meteorological Handbook No. 3 - Rawinsonde and Pibal Observations, May 1997, FCM-H3-

1997,http://www.ofcm.gov/homepage/text/pubs.htm
2. Aerographer's Mate Third Class METOC Training Manual, Chapter 2

UAS-2251 1.0 365 B,R,M E L/S

Goal. Analyze a Skew-T Log P diagram.

Requirement. Utilizing a Skew-T diagram and/or appropriate software and upper air sounding, plot and analyze upper-air data. Perform the following:

1. Obtain upper-air observation data.
2. Plot mandatory levels, significant levels, and significant wind data or import upper-air data into appropriate software.
3. Analyze the following:
   (a) CCL.
   (b) LCL.
   (c) LFC.
   (d) PEA.
   (e) NEA.
   (f) T1.
   (g) T2.
   (h) Forecasted maximum temperature.
   (i) Forecasted minimum temperature.
   (j) Freezing level.
   (k) Contrails.
   (l) Tropopause.
   (m) EL.
   (n) Turbulent areas.
   (o) Potential temperature.
   (p) Icing types and levels.
   (q) Areas of moisture.
   (r) D-Values.
   (s) Fog dissipation.
   (t) Cloud height, types, and coverage.
4. Compute following stability indices (at a minimum).
   (a) Lifted index.
   (b) K index.
   (c) Sweat index.
   (d) Showalter’s index.
   (e) Totals totals.

Performance Standard. Complete the requirement by practical application. Within a 60 minute period, analyze a Skew-T Log P diagram.

Instructor. BI

Prerequisite. 2001, 2250

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Federal Meteorological Handbook No. 3 - Rawinsonde and Pibal Observations, May 1997, FCM-H3-1997, http://www.ofcm.gov/homepage/text/pubs.htm
2. Aerographer's Mate Third Class METOC Training Manual, Chapter 2
3. Geophysics Fleet Mission Program Library (GFMPL) Users Manual

UAS-2252 2.0 * B E G

Goal. Identify the components of an upper-air sensor and upper-air sensing equipment.

Requirement. Identify use of the components required for taking an upper air observation.

1. Identify the following components:
   (a) Upper air sensing equipment and antennas.
   (b) Upper air sensor /transmitter.
   (c) Required weight sets if applicable.
2. State the use of the following components:
   (a) Upper air sensing equipment and antennas.
   (b) Upper air sensor /transmitter.
   (c) Required weight sets if applicable.
3. Read and comprehend procedures for conducting upper air observations.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2001

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Operations and Maintenance Manual with Parts List, AN/TMQ-56 Measuring Set, METMF(R) NEXGEN, EM000-CD-OMP-010
2. Federal Meteorological Handbook No. 3 - Rawinsonde and Pibal Observations, May 1997, FCM-H3-1997, http://www.ofcm.gov/homepage/text/pubs.htm

4.10.6 ASTRONOMICAL/TIDAL DATA (ATD) STAGE

4.10.6.1 Purpose. To develop proficiency at deriving astronomical and tidal data.

4.10.6.2 General.

Prerequisite. 2000

Admin Notes. Upon completion of this stage of training, METOC personnel shall be able to compute or retrieve astronomical or tidal data.

Crew Requirements. None

ATD-2300 1.0 * B E G

Goal. Define and state the difference between civil, nautical, and astronomical twilight.

Requirement. Without the aid of reference, define and state the difference between civil, nautical, and astronomical twilight.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

ATD-2301 1.0 * B G

Goal. State the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.

Requirement. Without the aid of reference, describe the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2300

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Aerographer's Mate Third Class METOC Training Manual

(https://www.nko.navy.mil/group/aviation/ag)

4.10.7 FAMILIARIZATION (FAM) STAGE

4.10.7.1 Purpose. To familiarize METOC personnel with aspects of the local area assigned.

4.10.7.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be knowledgeable of the local area procedures and policies they have been assigned to.

Crew Requirements. None

FAM-2350 2.0 * B E G

Goal. Identify and define local area policies and procedures.

Requirement. Without the aid of reference, define and discuss the listed local area knowledge:

1. Airfield/Location description.
2. SOP procedures.
3. Command support structure.
4. Destructive weather procedures.
5. Security requirements.
6. Watch composition and schedule.
7. Watch procedures.
8. Local forms.
9. Reference and technical library procedures.
10. Local area forecaster handbook.
11. Weather regimes.
12. Local security procedures.
13. Watch routine.
14. METOC equipment.
15. Command structure.
16. Warning criteria/procedures.
17. Quality Assurance Programs.
18. Communication configurations and procedures.
19. Administrative Reports.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Local SOP
2. Forecasters Handbook

4.10.8 EQUIPMENT (EQPT) STAGE

4.10.8.1 Purpose. To develop proficiency with equipment used in the meteorological field.

4.9.8.2 General.

Prerequisite. ACAD-2001

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in the utilization of equipment within the meteorological community.

Crew Requirements. None

EQPT-2400 3.0 180 B,R,M E L

Goal. Operate handheld meteorological devices.

Requirement. Operate all handheld sensing devices indigenous to the unit. Conduct sensing of environmental elements utilizing devices like those listed below. Devices may vary from site to site, unit commanders shall identify devices to be evaluated.

1. Wind sensing devices.
2. Pressure sensing devices.
3. Temperature sensing devices.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. PMQ http://meteorologytraining.tpub.com/14269/css/14269_105.htm
2. Kestrel http://www.kestrelmeters.com/

EQPT-2401 2.0 1460 B,R,M E L

Goal. Operate a handheld GPS device.

Requirement. Given a handheld GPS receiver and the references, complete the following:

1. Describe the purpose and use of the device.
2. Describe the components of the device.
3. Report current location in both latitude/longitude and MGRS coordinates.
4. Fill the device with the appropriate crypto for precision positioning system (PPS) operations.
5. Report current location in both latitude/longitude and MGRS coordinates in PPS operations.

Performance Standard. Complete the requirement items IAW the references. Device shall be programmed properly. Current position shall be accurate. Device shall be operated with appropriate crypto fills.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. DAGR Operator's Pocket Guide.
2. AN/PSN-13A DAGR Computer Based Training.
3. DAGR Technical Manual 11-5820-1172-13.

EQPT-2402 2.0 365 B,R,M E L

Goal. Operate the Meteorological Radar Subsystem (MRS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Establish and coordinate background maps.
2. Establish radar alerts and thresholds.
3. Establish radar product set lists.
4. Retrieve a base reflectivity product.
5. Retrieve a base velocity product.
6. Retrieve a base spectrum width product.
7. Retrieve a composite reflectivity product.
8. Retrieve a Vertically Integrated Liquid (VIL) product.
9. Retrieve an Echo Top (ET) product.
10. Retrieve an overlay storm relative motion product.
11. Display radar products via the Forecaster Tool Kit (FTK)

Performance Standard. Complete the requirements by practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2403 2.0 365 B,R,M E L

Goal. Operate the Meteorological Satellite Subsystem (MSS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Update of Ephemeris Data.
2. Retrieve an infared satellite image.
3. Retrieve a water vapor satellite image.
4. Retrieve a visible satellite image.
5. Post process satellite imagery.
   a. Color enhancement.
   b. Align geopolitical borders.
   c. Archive image.
6. Display archived image.
7. Display satellite image via the Forecaster Tool Kit (FTK).

Performance Standard. Complete the requirements by practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2404 2.0 365 B,R,M E L

Goal. Operate the Communications Subsystem (CSS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Setup and configure the Broad Global Area Network.
   a. Retrieve products.

2. Perform radio checks.
   a. PRC 151
   b. PRC 117
3. Operate the vehicle intercom system.

Performance Standard. Complete the requirements by practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2405 2.0 365 B,R,M E L

Goal. Operate the Local Subsystem (LSS).

Requirement. In a simulated or actual deployed environment, retrieve meteorological parameters.

Performance Standard. Complete the requirements by practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2406 1.0 365 B,R,M E L

Goal. Operate the Remote Subsystem (RSS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Configure observation transmission times.
2. Retrieve meteorological parameters.

Performance Standard. Complete the requirements by practical

application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-2407 1.0 365 B,R,M E L

Goal. Operate the Upper Air Subsystem (UAS).

Requirement. In a simulated or actual deployed environment, perform the following:

1. Prepare sonde for launch.
2. Enter local weather observation.
3. Launch sonde.
4. Ensure receipt of data.

Performance Standard. Complete the requirements by practical application IAW the reference. Minor assistance is allowed.

Instructor. BI

Prerequisite. 2252

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

4.10.9 APPLIED METEOROLOGICAL SCIENCE (AMS) STAGE

4.10.9.1 Purpose. To introduce the fundamental principles of the atmosphere required to produce mission specific products.

4.10.9.2 General.

Prerequisite. 2000, 2001

Admin Notes. Upon completion of this stage of training, METOC personnel shall possess and demonstrate proficiency in meteorological fundamentals.

Crew Requirements. None

AMS-2500 15.0 * B E G

Goal. Describe principles of atmospheric physics.

Requirement. Describe principles of atmospheric physics:

1. Atmospheric structure.
2. Atmospheric variables.
3. Vectors.
4. Pressure.
5. Temperature and moisture.
6. Fundamentals of atmospheric concepts.
7. Advection.
8. Thermal winds.
9. Thickness values.
10. Heat transfer.
11. Cloud formation and dissipation.
12. Precipitation types.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2003, 2004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 20025. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738 AFWA TN 98-002 (revised Feb. 2012)
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Meteorology for Scientist and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

AMS-2501 15.0 * B E G

Goal. Describe principles of atmospheric dynamics.

Requirement. Describe principles of atmospheric dynamics:

1. Rotational and circular motion.
2. Atmospheric forces.

3. Divergence/convergence (speed & directional).
4. Vorticity.
5. Jet streams.
6. Atmospheric wave terminology.
7. Vertical motions.
8. Air masses.
9. Frontal systems.
10. Evolution of frontal systems.
11. Synoptic scale systems.
12. Evolution of synoptic scale baroclinic systems.
13. Local modification to large-scale circulations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2003, 2004, 2500

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
5. Atmospheric Science: An Introductory Survey 2nd Edition Ch. 7 By: John M. Wallace and Peter V. Hobbs Publication Date: 15 February 2006 ISBN-10: 0-12-732951-X
6. An Introduction to Atmospheric Physics 2nd Edition Ch. 2,4,5 By: David G. Andrews Publication Date: 2010 ISBN: 978-0-521-87220-1
7. Atmosphere, Ocean, and Climate Dynamics: An Introductory Text By: John Marshall and R. Alan Plumb Publication Date: 2008 ISBN 13: 978-0-12-558691-7

AMS-2502 5.0 * B E G

Goal. Describe atmospheric fundamentals.

Requirement. Verbally define and discuss the atmospheric fundamentals listed below during a technical discussion with qualified METOC personnel.

1. Long/short wave trough/ridges.
   (a) Deepening/building/intensifying.
   (b) Filling/weakening.
   (c) Cyclogenesis/frontogenesis.
   (d) Cyclolysis/frontolysis.
2. Pressure systems.
   (a) Baroclinic/barotropic.

3. Frontal systems.
   (a) Active/inactive cold fronts.
   (b) Active/inactive warm fronts.
   (c) Stationary fronts.
   (d) Warm/Cold occlusions.
   (e) Type "A"/"B" occlusions.
   (f) Warm/cold air advection.
   (g) Dry/moist air advection.
4. Jet properties of:
   (a) Polar front jet stream.
   (b) Arctic jet stream.
   (c) Subtropical jet stream.
   (d) Low-level jets.
5. Vorticity.
6. Thickness.
7. Condensation/evaporation/sublimation.
8. Convergence/confluence.
9. Divergence/diffluence.
10. Pressure gradient.
11. Gradient/Geostrophic/Ageostrophic/Cyclostrophic winds.
12. Relative/absolute/specific humidity.
13. Cloud identification/formation.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2003, 2004, 2017, 2018, 2019, 2020, 2026, 2500, 2501

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Meteorology Today 9th Edition Ch. 8-11 By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738
4. Meteorology for Scientists and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
5. Atmospheric Science: An Introductory Survey 2nd Edition Ch. 7-8 By: John M. Wallace and Peter V. Hobbs Publication Date: 15 February 2006 ISBN-10: 0-12-732951-X
6. An Introduction to Atmospheric Physics 2nd Edition Ch. 2,4,5 By: David G. Andrews Publication Date: 2010 ISBN: 978-0-521-87220-1
7. Atmosphere, Ocean, and Climate Dynamics: An Introductory Text By: John Marshall and R. Alan Plumb Publication Date: 2008 ISBN 13: 978-0-12-558691-7

AMS-2503 20.0 * B E L/S

Goal. State the use of graphical METOC products.

Requirement. State the elements of the following graphical products

used to assist in the forecast process:

1. Horizontal/vertical weather depiction.
2. Satellite imagery.
3. Radar imagery.
4. Surface chart.
5. Constant pressure charts.
6. Oceanographic charts.
7. Vorticity charts.
8. Thickness charts.
9. SKEW-T LOG P Diagram.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2033, 2055, 2056, 2500, 2501, 2502

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
6. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X

4.10.10 METOC DATA ANALYSIS (MDA)STAGE

4.10.10.1 Purpose. To develop proficiency in the analysis of basic atmospheric features on surface and upper-level atmospheric data.

4.10.10.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at analyzing and interpreting surface and atmospheric phenomena.

Crew Requirements. None

MDA-2550	2.0	*	B	E	L/S

Goal. Initialize and verify meteorological model output.

Requirement. Initialize and verify meteorological model output and identify strengths and weaknesses of global, regional, and mesoscale numerical models.

Performance Standard. Complete the requirement by practical application followed by guided discussion.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. An Introduction to Atmospheric Physics 2nd Edition Ch. 1,9 By: David G. Andrews Publication Date: 2010 ISBN: 978-0-521-87220-1
4. Numerical Weather and Climate Prediction By: Thomas Tomkins Warner Publication Date: 2011 ISBN: 978-0-521-51389-0
5. Atmospheric Modeling, Data Assimilation and Predictability By: Eugenia Kalnay Publication Date: 2010 ISBN: 978-0-521-79179-3
6. Fundamentals of Atmospheric Modeling 2nd Edition By: Mark Z. Jacobson Publication Date: 2005 ISBN: 978-0-521-83970-9
7. Meteorology for Scientists and Engineers 2nd Edition Ch. 14 By: Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

MDA-2551 1.0 365 B,R,M E L

Goal. Analyze and interpret a thickness chart or thickness model.

Requirement. Given a SFC-500mb thickness chart or thickness model, analyze and depict the following features within 30 mins and provide meteorological reasoning for placement:

1. Warm/cold air advection.
2. High and low pressure centers.
3. Fronts.
4. 540 Dam line.
5. Troughs.
6. Label air masses.
7. Jet stream.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

MDA-2552 1.0 365 B,R,M E L

Goal. Analyze and interpret a vorticity chart or vorticity model.

Requirement. Given a 500mb vorticity chart or vorticity model, analyze and depict the following features within 30 mins and provide meteorological reasoning for placement:

1. Positive/negative vorticity advection areas.
2. Shear lobes.
3. Advection lobes.
4. Jet stream.
5. X-N distribution.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002

ISBN 13: 9780964517271

MDA-2553 6.0 365 B,R,M E L

Goal. Analyze and interpret upper atmospheric weather charts.

Requirement. Provided standard level chart set (850mb, 700mb, 500mb, 300mb, and 200mb) analyze the mandatory level constant pressure charts for features listed below (as applicable) within 6 hours and provide meteorological reasoning for placement:

1. Isoheights.
2. Isotherms.
3. Areas of significant moisture.
4. Major short wave axis, troughs and ridges.
5. Minor short wave axis, troughs and ridges.
6. High and low height centers.
7. Warm and cold pockets.
8. Upper fronts.
9. Jet stream features.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis By: Dusan Djuric Date: 2 February 1994 ISBN-10: 0135011493
7. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

MDA-2554 2.0 365 B,R,M E L

Goal. Analyze and interpret a surface weather chart.

Requirement. Given a surface chart, depict the following features

within 45 mins and provide meteorological reasoning for placement:

1. Isobars.
2. High and low pressure centers.
3. Fronts.
4. Highlight weather symbols.
5. Troughs.
6. Label air masses.
7. Dry lines.
8. Isallobars.
9. Isodrosotherms.
10. Identify outflow boundaries.
11. Nephanalysis.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis By: Dusan Djuric Date: 2 February 1994 ISBN-10: 0135011493
7. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

MDA-2555	2.0	365	B,R,M	E	L/S

Goal. Analyze meteorological features on satellite imagery.

Requirement. Correctly analyze synoptic and/or mesoscale meteorological features on IR, Visual, Water Vapor, and Multi-spectral satellite imagery (SSMI) and provide meteorological reasoning for placement:

1. Areas of high pressure.
2. Areas of low pressure.
3. Frontal boundaries.
4. Thunderstorms.
5. Basic and significant cloud elements.

6. Jet streams.
7. Land/terrain features.
8. Non-cloud features (i.e. smoke, dust).
9. Significant weather phenomena.
10. Tropical features.
    (a) Tropical cyclones.
    (b) Tropical upper tropospheric troughs.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. An Introduction to Satellite Image Interpretation By: Eric D. Conway and The Maryland Space Grant Corporation Published 1997 ISBN: 0-8018-5576-4
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Images in Weather Forecasting: A Practical Guide for Interpreting Satellite and Radar Imagery By: M. J. Bader, G. S. Forbes, J. R. Grant, R. B. E. Lilley, A. J. Waters Publication Date: 10 July 1997 ISBN: 9780521629157

MDA-2556 2.0 365 B,R,M E L

Goal. Analyze meteorological features on radar products.

Requirement. Utilizing live or archived base radar products, identify the following features:

1. Base reflectivity:
   (a) Precipitation.
   (b) Thunderstorms.
   (c) Outflow boundaries.
2. Base velocity:
   (a) Convergence and divergence.
   (b) Cyclonic and anti-cyclonic rotation.
3. Base spectrum width products:
   (a) Significant motion.
   (b) Turbulence.

Performance Standard. Complete the requirement by practical

application.

Instructor. BI

Prerequisite. 2003, 2004, 2022, 2023, 2024, 2025, 2027, 2028, 2054, 2500, 2501, 2502, 2503

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Doppler Radar Meteorological Observations Part D By: Office Of The Federal Coordinator For Meteorological Services (OFCM) Publication Date: February 2006
6. Doppler Radar Meteorological Observations Part B By: Office Of The Federal Coordinator For Meteorological Services (OFCM) Publication Date: December 2005

4.10.11 METEOROLOGICAL FORECASTING (METF) STAGE

4.10.11.1 Purpose. To develop proficiency in meteorological forecasting and mission specific equipment, elements and products.

4.10.11.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in meteorological forecasting and mission specific support requirements.

Crew Requirements. None

METF-2600 2.0 * B E L/S

Goal. Forecast macro/synoptic scale features.

Requirement. Given a chart set, forecast intensity and movement of surface and upper-level features listed for the following and provide sound meteoroligical reasoning:

1. Major short wave troughs/ridges.
2. High and low pressure system(s).
3. Moisture.
4. Frontal systems.
5. Weather elements.

6. Long wave patterns.
7. Jet streams.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3

METF-2601 10.0 365 B,R,M E G

Goal. Develop synoptic scale forecast using prognosis techniques.

Requirement. Analyze centrally prepared products, apply academic principles, and forecast synoptic scale features by completing the listed items:

1. Initialize model data.
2. Analyze or re-analyze:
   (a) Surface chart.
   (b) Thickness chart.
   (c) Vorticity.
   (d) Standard Upper Air chart set.
   (e) Satellite imagery.
   (f) Radar imagery.
3. Develop forecasted intensity and location of weather features.
4. Discuss meteorological reasoning for forecasted elements.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2019, 2020, 2055, 2056, 2551, 2552, 2553, 2554, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
8. Weather Maps : How to Read and Interpret All the Basic Weather Charts 3rd Edition By: Peter R. Chaston Publication Date: 2002 ISBN 13: 9780964517271

METF-2602 2.0 * B E G

Goal. Forecast local area (mesoscale/microscale) meteorological elements and phenomenon.

Requirement. Utilizing available resources assess and forecast meteorological elements. Prepare a local area forecast for a 96-hour period. At a minimum, forecast for the following:

1. Cloud types, height and coverage.
2. Precipitation types, intensity and duration.
3. Surface visibility.
4. Weather and obstruction(s) to visibility.
5. Maximum/Minimum temperatures.
6. Wind Speed, Direction, and character.
7. Icing type, height, and intensity.
8. Turbulence type, height, and intensity.
9. Atmospheric pressure.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
6. Weather Analysis and Forecasting By: Patrick Santurette and Christo G. Georgiev Publication Date: 2005 ISBN: 0-12-619262-6
7. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X

METF-2603 1.0 * B E L/S

Goal. Forecast severe weather.

Requirement. Given METOC data and a designated Area Of Responsibility (AOR), analyze and forecast for the severe weather elements listed and provide meteorological reasoning for each:

1. Convective phenomena.
2. Non-convective phenomena.

Performance Standard. Complete the requirement by practical application.

Instructor. BI

Prerequisite. 2003, 2004, 2022, 2023, 2024, 2025, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2600

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Analysis and Forecasting Handbook Ch. 9 By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
6. Meteorology for Scientists and Engineers 2nd Edition Ch. 15 By: Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7
7. Atmosphere, Ocean, and Climate Dynamics: An Introductory Text By: John Marshall and R. Alan Plumb Publication Date: 2008 ISBN 13: 978-0-12-558691-7

4.10.12 METOC PRODUCT BRIEFING (MPB) STAGE

4.10.12.1 Purpose. To develop proficiency in the techniques and tactics used to verbally present current and future states of the atmosphere.

4.10.12.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at conducting METOC briefings in support of mission requirements.

Crew Requirements. None

MPB-2650 3.0 * B,R E L

Goal. Brief synoptic chart set.

Requirement. Utilizing an analyzed chart set or model charts, brief meteorological features from the following products:

1. Surface chart.
2. Constant pressure charts.
3. Support charts:
   (a) Satellite Imagery.
   (b) Vorticity.
   (c) 1000-500mb Thickness.

Performance Standard. Practical application. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2600, 2601, 2602

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. The Art of Public Speaking 11th Edition By: Stephen E. Lucas Publication Date: 2011 ISBN13: 978-0073406732

MPB-2651 3.5 365 B,R,M E L

Goal. Demonstrate proficiency in completing a flight weather briefing (DD 175-1).

Requirement. With the aid of reference, complete 10 DD-175-1's with the following minimum accuracy requirements:

1. Sky conditions (within 500 feet of actual arrival conditions).
2. Visibility (within 1 mile of the actual arrival conditions).
3. Type and character of precipitation or obstruction to visibility.
4. Wind direction (within 30 degrees if wind speed greater than six knots of actual arrival conditions).
5. Wind speed (within 5 knots of actual conditions).
6. Altimeter setting (within 0.02 inches of mercury of actual arrival conditions).

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. 2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Flight Weather Briefing Manual, NAVMETOCCOMINST 3014._14
2. NATOPS General Flight and Operating Instructions, OPNAV Instruction 3710.7_
3. Terminal Aerodrome Forecast (TAF) Code, NAVMETOCCOMINST 3143.1_

4.10.13 COMMUNICATIONS (COMM) STAGE

4.10.13.1 Purpose. To develop proficiency in the communications assets available to METOC personnel.

4.10.13.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in the utilization of communications assets and COMSEC procedures.

Crew Requirements. None

COMM-2700 5.0 0 B E G

Goal. Understand the fundamentals of Communications.

Requirement. Given the references:

1. Discuss the following voice/electrical transmission communications methods used by your command:
   a. Secure communications

b. Local Area Network (LAN)/Internet
c. Message traffic
d. International Marine Satellite (INMARSAT)
e. Broadband Global Area Network (BGAN)
f. Electronic mail (e-mail)
g. Facsimile equipment

2. Discuss the following terms as it relates to the preparation of naval messages:
   a. Precedence:
      i. Routine (R)
      ii. Priority (P)
      iii. Immediate (O)
      iv. Flash (Z)
      v. Administrative messages
      vi. Operational messages
   b. Plain Language Address (PLA)
   c. Message addressing
   d. Classification
   e. SSIC
   f. Subject
   g. Reference lines
   h. Addressees (action and info)
   i. NOTAL
   j. Readdressal
   k. DECL
   l. DTG
   m. MINIMIZE
3. Discuss the various forms of written communication used by your command.
4. Discuss contingency procedures for obtaining information when normal methods are not available.
5. Discuss the effects of Emission Control (EMCON) and MINIMIZE on your local communication procedures.

Performance Standard. Without the aid of reference, discuss or explain the requirement. Minor errors self-corrected by the trainee are permitted. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. MCI 2525B

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NTP-3 (J), Naval Telecommunications Procedure, Telecommunications User's Manual
2. Local Directives and Standard Operating Procedures (SOP)

COMM-2701	8.0	365	B,R,M	E	1 HF man-pack radio	L

Goal. Operate HF man-pack communications equipment.

Requirement. Given a HF man-pack radio and the references:

1. Describe the purpose and use of an HF man-pack radio.
2. Describe the capabilities and limitations of the radio.
3. Set up radio with applicable SL3.
4. Construct a field-expedient antenna.
5. Program radio and establish secure/non-secure HF communications.
6. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communications equipment and field expedient antenna was set up and programmed accurately and a radio check was performed without error.

Instructor. BI

Prerequisite. MCI 0621

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Radio Operator Manual.
2. Harris Premier website computer-based training.
3. JSC-HDBK-98-091, Joint Spectrum Center Field Antenna Handbook

COMM-2702 2.0 365 B,R,M E 1 intra-team radio L

Goal. Operate intra-team communications equipment.

Requirement. Given an intra-team radio and the references:

1. Describe the purpose and use of an intra-team radio.
2. Describe the capabilities and limitations of the radio.
3. Set up radio with applicable SL3 gear.
4. Program radio and establish secure/non-secure intra-team communications.
5. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communication equipment was set up and programmed accurately and a radio check was performed without error.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Harris AN/PRC-152 Multiband Handheld Radio Operation Manual.
2. Thales AN/PRC-148 MBITR Operation and Maintenance Instructions.

COMM-2703 4.0 365 B,R,M E 1 man-pack radio L

Goal. Operate UHF/VHF/SATCOM man-pack communications equipment.

Requirement. Given an UHF/VHF/SATCOM man-pack radio and the references:

1. Describe the purpose and use of an UHF/VHF/SATCOM man-pack radio.
2. Describe the capabilities and limitations of the man-pack radio.
3. Set up radio with applicable SL3
4. Program radio and establish secure/non-secure UHF/VHF/SATCOM communications.
5. Demonstrate preventative maintenance procedures.

Performance Standard. Complete the requirement items IAW the references. Communication equipment was set up and programmed accurately and a radio check was performed without error.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Radio Operator's Manual.
2. Harris Premier website computer-based training.

COMM-2704 2.0 * B,R E G

Goal. Describe proper handling and storage of classified materials.

Requirement. Given the references:

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 (CCI).

Performance Standard. State the above requirement items without error.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. SECNAVINST 5510.36.
2. EKMS-1.
3. MCO P5510.18.
4. Unit EKMS SOP.

COMM-2705 2.0 * B,R E G

Goal. Plan physical security for classified areas.

Requirement. Given a scenario and references, plan personnel and equipment security procedures.

1. Create guard schedule.
2. Single entry control point.
3. Verify personnel on access roster.
4. Triple-strand concertina wire.
5. Entry points of communication lines.
6. Submit a physical security diagram.

Performance Standard. Develop a plan and provide a diagram for requirement items. Instructor will validate that the plan supports the scenario.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO P5530.14.

COMM-2706 2.0 * B,R E G

Goal. Extract key material information from EKMS callout.

Requirement. Given an EKMS COMSEC callout and references:

1. State the purpose of the EKMS COMSEC callout.
2. Identify the four main pieces of key information:
   (a) Short Title.
   (b) Edition.
   (c) Segment.
   (d) Classification.
   (e) Super-session date.

Performance Standard. With local SOP and EKMS COMSEC callout, state the purpose of the EKMS COMSEC callout and identify the key information on the callout.

Instructor. BI

Prerequisite. 2704

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EKMS-1A.
2. COMSEC callout.

COMM-2707 2.0 365 B,R,M E 1 SKL/1 tactical radio L

Goal. Operate a common fill device (CFD).

Requirement. Given a CFD, a tactical radio, and the references:

1. Describe the purpose and use of a CFD.
2. Identify the components of the CFD.
3. Transfer an encryption key to a tactical radio.

Performance Standard. Complete the requirement items IAW the references. Accurately transmit the encryption key and successfully conduct a secure radio check without error.

Instructor. BI

Prerequisite. 2704, 2705, 2706

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable equipment operators manual.

4.10.14 METOC DOCTRINE (MDN) STAGE

4.10.14.1 Purpose. To demonstrate familiarity with the Marine Corps METOC support architecture, missions and local operating procedures.

4.10.14.2 General.

Prerequisite. None

Admin Notes. The following notes apply to this stage of training:

(1) All personnel shall be assigned this stage of training upon completion of the Core Skill Introduction phase and prior to assignment to any other stage.

(2) Academic training syllabus shall be developed and approved by the TMSG METOC officer prior to implementation. Checklists contained within this Manual are provided to ensure comprehensive and cohesive training within the METOC community. Local mission and operating procedures will dictate the academic training in support of the events. Local mission and operating procedures will dictate academic training required to support events. Local METOC officers and/or qualified METOC personnel shall review academic POIs for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

Crew Requirements. None

MDN-2750 3.0 * B E G

Goal. Demonstrate an understanding of METOC's role in the Marine Corps Planning Process (MCPP).

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Discuss METOC's role in the Marine Corps Planning Process (MCPP).
2. Discuss METOC's role in deliberate planning.
3. Discuss METOC's role in Rapid Response Planning Process (R2P2).
4. Discuss METOC's role in the Operational Planning Teams (OPT).
5. Discuss METOC's role in Intelligence Preparation of the Operational Environment (IPOE).

Performance Standard. Complete all the requirement items IAW the references. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCDP 1
2. MCDP 1-0
3. MCDP 1-2
4. MCDP 5
5. MCWP 3-40.1
6. MCWP 5-1
7. MCDP 6
8. FM 2-01.3/MCRP 2-3A
9. MSTP Pamphlet 5-0.2
10. MSTP Pamphlet 2-0.1

MDN-2751 1.0 0 B E G

Goal. Describe US Marine Corps' (USMC) METOC doctrine, organization, core capabilities and operations.

Requirement. Given a period of instruction, pass a closed book examination of the following learning objectives:

1. Explain the USMC METOC Doctrine and Operational Concept.
2. Identify the METOC Organization.
3. Identify USMC METOC capabilities.
4. Describe METOC Integration in USMC operations.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. MAWTS-1, "METOC Support to the MAGTF" class
3. Joint METOC Officer's Course, "Lesson 4.4: US Marine Corps METOC Capabilities" lecture

4.10.15 ADMINISTRATION (ADM) STAGE

4.10.15.1 Purpose. To develop proficiency in the administrative tasks required to direct METOC support operations.

4.10.15.2 General.

Prerequisite. None

Admin Notes. Upon completion of this stage of training, a METOC Officer shall be competent in conducting all administrative duties in support of METOC operations.

Crew Requirements. None

ADM-2808 16.0 * B E L/S

Goal. Draft a Universal Needs Statement (UNS).

Requirement. Given a scenario, submission forms, and applicable references:

1. Draft a Deliberate UNS (D-UNS), to include:
    a. Capability Gap/Shortfall
    b. Proposed Solution(s)
    c. Concept of Employment
    d. Requested Quantity or Capacity
    e. Estimates of Supportability
        i. Doctrinal Requirements
        ii. Organizational Requirements
        iii. Training Limitations
        iv. Materiel Supportability
        v. Personnel Supportability
        vi. Facilities Requirements
    f. Related Needs Statements
    g. Gap Identified by Other Services
    h. Lessons Learned
2. Draft an Urgent UNS (U-UNS), to include:
    a. Capability Gap/Shortfall
    b. Proposed Solution(s)
    c. Justification of Urgency
    d. Concept of Employment
    e. Requested Quantity or Capacity
    f. Estimates of Supportability
        i. Doctrinal Requirements
        ii. Organizational Requirements
        iii. Training Limitations
        iv. Materiel Supportability
        v. Personnel Supportability
        vi. Facilities Requirements
    g. Related Needs Statements
    h. Gap Identified by Other Services
    i. Lessons Learned
3. Demonstrate the process for submission

Performance Standard. Practical application. Small conceptual errors are allowable, and should be corrected by the instructor; however, the draft should contain no factual errors. (Practical Application)

Instructor. BI

Prerequisite. 2105, 2106

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 3900.15_
2. MCO 3900.17_
3. Deliberate UNS Form available at: http://www.mccdc.marines.mil/

ADM-2809 16.0 * B E G

Goal. Draft an Urgent Operational Needs (UONs) request.

Requirement. Given a scenario, submission forms, and applicable references:

1. Determine the UONs type: joint urgent operational needs (JUONs) or joint emergent operational needs (JEONs)
2. Draft the JUONs or JEONs.
3. Demonstrate the process for submission.

Performance Standard. Practical application. Small conceptual errors are allowable, and should be corrected by the instructor; however, the response should contain no factual errors.

Instructor. BI

Prerequisite. 2105, 2106, 2808

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSI 3170.01_
2. DoDD 5000.71

ADM-2810 1.0 * B E G

Goal. Describe the Marine Corps Action Tracking System (MCATS).

Requirement. Conduct a self-paced reading of the reference, then without the aid of reference, perform the following:

1. Describe the login requirements for MCATS.
2. Describe the purpose of MCATS.
3. Explain the types of MCATS Task Workflows.
4. Identify MCATS features.
5. Discuss the MCATS Business Rules.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are

allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. "MCATS_Training_Slides" course can be found at: https://hqmcats.hqmc.usmc.mil/help/MCATS_Training_Slides.ppt
2. All additional references can be found at: https://hqmcats.hqmc.usmc.mil/

4.10.16 MANAGEMENT (MGT) STAGE

4.10.16.1 Purpose. To become proficient in the basic management skills required to direct METOC support operations.

4.10.16.2 General.

Prerequisites. None

Admin Notes. Upon completion of this stage of training, the METOC officer shall be proficient in managing a METOC section.

Crew Requirements. None

MGT-2850 4.0 0 B E G

Goal. Identify the embarkation requirements for the METOC section.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. Identify Hazardous Material requirements.
2. Identify Physical Security requirements.
3. Identify Material Handling Equipment (MHE) requirements.
4. Identify equipment specific transportation requirements.
5. Identify MAGTF Deployment Support System II (MDSS II) elements.
6. Identify support material requirements.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. 2062, 2101

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCO 4030.33
2. MCRP 4-11
3. Local Directives and Standard Operating Procedures (SOP)

MGT-2851 1.0 0 B E G

Goal. State the key elements of an OPORDER and discuss how they relate to METOC support.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference and provided a contingency plan, perform the following:

1. Identify and discuss the four levels of planning detail.
2. Identify the purpose and major sections of the OPORD.
3. State the purpose and content of the Base Order.
4. State the purpose and content of the Annex A.
5. State the purpose and content of the Annex B.
6. State the purpose and content of the Annex H.
7. State the purpose and content of the Annex K.

Performance Standard. Complete all the requirement items IAW the references. Demonstrate thorough understanding. Minor errors are allowed as long as the trainee self corrects. Instructor will discuss each item with the trainee.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 1-02
2. JP 3-0
3. JP 5-0
4. JP 5-00.1
5. CJCSM 3130.03
6. MCDP 1
7. MCDP 1-0
8. MCDP 1-2
9. MCDP 5
10. MCWP 3-40.1

11. MCWP 5-1
12. MCDP 6
13. FM 2-01.3/MCRP 2-3A
14. MSTP Pamphlet 5-0.2
15. MSTP Pamphlet 2-0.1
16. ADP 5-0
17. ADP 6-0
18. ADRP 5-0
19. ATTP 5-0.1
20. "MAGTF Staff Training Program (MSTP) Classes" on MCPP can be found at: https://www.mstp.usmc.mil/classes/default.aspx
21. '8653AZ, Marine Corps Planning Process' as part of '8650AZ, Expeditionary Warfare School Distance Education Program.'

MGT-2852 2.0 0 B E G

Goal. State the METOC products and services required for operational decision-making and joint operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of the Joint Operational Area Forecast (JOAF).
2. Explain the typical process for developing the JOAF.
3. Explain the format and environmental parameters that are included in the JOAF.
4. Discuss other METOC products and services required for operational decision-making.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 3-59
2. CJCSI 3810.01C
3. DoD CIO Memo, 9 May 2003, "DoD Net-Centric Data Strategy"
4. DoDD 8320.2
5. DoD Implementation Guide 8320.2
6. Joint METOC Officer's Course, "Lesson 9.2: Joint METOC Management - Overview of Joint METOC Products" lecture

MGT-2856 2.0 0 B E G

Goal. State the purpose of a METOC sensing strategy.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of a sensing strategy and collection plan.
2. Explain the development and implementation of a collection plan using the existing sensing strategy.
3. Manage resources to affect the collection plan.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. NEEDS ALL PREREQS

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 2-01
2. JP 3-59
3. CJCSI 3810.01C
4. Joint METOC Officer's Course, "Lesson 9.5: Joint METOC Management - METOC Sensing Strategy/Collection Plan" lecture

MGT-2857 2.0 0 B E G

Goal. State the purpose of the quality control program.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State the purpose of quality control (QC).
2. Discuss procedures/processes to determine the effectiveness of METOC support to operations.
3. Discuss mechanisms to obtain feedback on the effectiveness of METOC support to operations.
4. Discuss lessons learned and after action reports.

Performance Standard. Complete all the requirement items IAW the references. Instructor will discuss each item with the trainee. Minor errors are allowed as long as the trainee self corrects.

Instructor. BI

Prerequisite. NEEDS ALL PREREQS

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. CJCSI 3150.25E
2. AFI 15-114
3. NAVY OPNAV 3500.37C
4. Joint METOC Officer's Course, "Lesson 9.6: Joint METOC Management - Quality Control (QC)" lecture

4.10.17 LITTORAL FORECASTING/ANALYSIS (LFA) STAGE

4.10.17.1 Purpose. To acquire proficiency in collecting, analyzing and forecasting oceanographic and littoral parameters.

4.10.17.2 General.

Prerequisite. 2000, 2003, 2004

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at forecasting and analyzing oceanographic and littoral parameters.

Crew Requirements. None

LFA-2900 5.0 * B E G

Goal. State the elements of a surf observation.

Requirement. Without the aid of reference, define and/or explain the following:

1. Significant breaker height.
2. Maximum breaker height.
3. Breaker period.
4. Breaker types.
5. Angle of breaker relative to beach.
6. Littoral current.
7. Modified surf index.
8. Impact of wind direction in surf zone.
9. Beach profile data.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2000, 2003, 2004, 3151

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Joint Surf Manual COMNAVSURFPAC/LANT 3840.1_.
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

4.10.18 METOC IMPACT ASSESSMENT (MIA) STAGE

4.10.18.1 Purpose. To acquire proficiency in the processes and products that assist in providing assessment of atmospheric conditions to mission specific support requirements.

4.10.18.2 General.

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MIA-2950 3.0 * B E G

Goal. State the physical METOC effect on the land domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the land domain.
2. State how the above effects impact land component operations.
3. Identify METOC thresholds associated with mission/operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. JP 3-59
2. U.S. Joint Forces Command, Joint Meteorology and Oceanography (METOC) Handbook (JMH) (2011)
3. ENMOD Treaty (5 Oct 78)
4. CJCSI 3810.01C
5. AR 115-10/AFI 15-157 (IP)
6. FM 34-81-1 Battlefield Weather Effects 23 Dec 92 (rescinded) Replaced with Integrated Weather Effects Decision Aid (IWEDA).
7. Joint METOC Officer's Course, "Lesson 7.1: METOC Impacts on Operations - Land Domain" lecture

8. MCWP 3-35.7

MIA-2951 1.0 * B E G

Goal. State the physical METOC effect on the maritime domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the maritime domain.
2. State how the above effects impact maritime component operations.
3. Indentify METOC thresholds associated with mission/ operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Naval Rules Database
2. Joint METOC Officer's Course, "Lesson 7.2: METOC Impacts on Operations - Maritime Domain" lecture
3. MCWP 3-35.7

MIA-2952 1.0 * B E G

Goal. State the physical METOC effect on the air domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the air domain.
2. State how the above effects impact air component operations.
3. Identify METOC thresholds associated with mission/ operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. U.S. Joint Forces Command Joint Meteorology & Oceanography (METOC) Handbook. 1st JMOC edition, April 2011
2. Aircraft Icing Handbook, Civil Aviation Authority, 2000
3. AFH 11-203V1, Weather For Aircrews, 12 Jan 12
4. AFH 11-203V2, Weather For Aircrews, 16 May 02 (currently in revision)
5. USSOCOM Manual 525-6, Meteorological and Oceanographic Thresholds for Special Operations Forces (SOF), 29 May 2009
6. Joint METOC Officer's Course, "Lesson 7.3: METOC Impacts on Operations – Air Domain" lecture
7. MCWP 3-35.7

MIA-2953 1.0 * B E G

Goal. State the physical METOC effect on the space domain and how they affect operations.

Requirement. Conduct a self-paced reading of the references, then without the aid of reference, perform the following:

1. State physical METOC effects on the space domain.
2. State how the above effects impact space operations.
3. Identify METOC thresholds associated with mission/ operations.

Performance Standard. Pass an exam with 80% accuracy.

Instructor. BI

Prerequisite. 2053, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFH 11-203V1 (12 Jan 2012), Weather For Aircrews (Chapter 18: Space Weather)
2. AFSPCPAM 15-2 (1 Oct 2003), Space Environmental Impacts on DoD Operations
3. Joint METOC Officer's Course, "Lesson 7.4: METOC Impacts on Operations – Space Domain" lecture

4.11 MISSION SKILL PHASE (3000)

4.11.1 Purpose.

(1) To provide standardized training standards for individuals performing advanced level forecasting techniques.

(2) To evaluate the METOC Marine for the qualification as a JMA once all core skill training requirements have been completed. Mission skill

training consists of events required to be recommended for position qualification. Upon qualification, the individual has achieved the mission skill proficiency to support the unit MET(s) and counts towards CMMR.

4.11.2 General.

4.11.2.1 Prerequisites. None

4.11.2.2 Admin Notes. This level contains advanced Core Skill training. It increases proficiency in basic Core Skills and develops mission-specific knowledge, skills and leadership that leads to combat qualifications and leadership designations. Individuals proficient in this phase of training should be capable of planning/leading/directing METOC support requirements in a contingency operation or personnel within command and control or MEF support agencies.

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

PAR NO.	STAGE NAME
4.11.3	ACADEMICS (ACAD)
4.11.4	METEOROLOGICAL SURFACE OBSERVATIONS (MSO)
4.11.5	ASTRONOMICAL/TIDAL DATA (ATD)
4.11.6	EQUIPMENT (EQPT)
4.11.7	METEOROLOGICAL FORECASTING (METF)
4.11.8	METOC PRODUCT BRIEFING (MPB)
4.11.9	LITTORAL FORECASTING/ANALYSIS (LFA)
4.11.10	METOC IMPACT ASSESSMENT (MIA)
4.11.11	MANAGEMENT (MGT)
4.11.12	METOC PLANNING COORDINATION (MPC)

4.11.3 ACADEMIC (ACAD) STAGE

4.11.3.1 Purpose. The stage outlines all relevant computer based training modules, correspondence courses, instructor-led distance learning courses, and formal resident courses to assist in the completion of events within the 3000 level phase of training.

4.11.3.2 General

Prerequisite. Core Skill complete for the Mission Skill attempting to attain.

Admin Notes.

(1) Each event specifies the location of the training materials.

(2) Upon completion of academic events, personnel should print completion certificates for entry into M-SHARP and Performance Record. Copies of completion certificates shall be placed within and maintained in individual training jackets.

(3) A general description of each type of training materials is as follows:

- Correspondence Course – A written publication that may or may not include testing materials.
- Computer Based Training – Self-paced learning modules that may be accessed via a CD-ROM/DVD or website.
- Instructor-Led Distance Learning – Formal courses of instruction that are accessed and facilitated via the internet (NIPRNET or SIPRNET)
- Resident Courses – Formal courses of instruction in which the student physically attends, normally at another location.

Crew Requirements. None.

ACAD-3000 24.0 * B E G

Goal. Complete 'METOC Support for Strike Warfare' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0014)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. 2090, 2091

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local navy PDD.

ACAD-3001 8.0 * B E G

Goal. Complete 'METOC Support for Amphibious Warfare' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0017)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local navy PDD.

ACAD-3002 8.0 * B E G

Goal. Complete 'METOC Support for Combat Search and Rescue/ Search and Rescue (CSAR/SAR)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0015)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local navy PDD.

ACAD-3003 40.0 * B E G

Goal. Complete 'Littoral Oceanography' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-825-410-001)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3004 8.0 * B E G

Goal. Complete 'Mobile Environmental Team Primer' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-849-411-001)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3005 16.0 * B E G

Goal. Complete 'Mobile Environmental Team Trainer' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-849-411-002)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. 3004

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3006 24.0 * B E G

Goal. Complete 'METOC Support for Air Defense, Surface Warfare, and Information Warfare (AD, SW, IW)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Number: C-5B-0013)

Performance Standard. Obtain completion certificate.

Instructor. NMOPDD Instructor

Prerequisite. 2091

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3007 2.0 * B E G

Goal. Complete 'Space Weather Impacts on Aviation' module.

Requirement. Perform the requirements of the 'Space Weather Impacts on Aviation' module.

Performance Standard. Obtain completion certificate.

Instructor. Web Based/COMET UCAR

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course can be found at: https://www.meted.ucar.edu/index.php

ACAD-3008 1.0 * B E G

Goal. Complete 'Space Weather - Layers of the Sun' module.

Requirement. Perform the requirements of the 'Space Weather - Layers of the Sun' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at:
https://afwkc.csd.disa.mil/

ACAD-3009 1.0 * B E G

Goal. Complete 'Space Weather - Active Regions' module.

Requirement. Perform the requirements of the 'Space Weather - Active Regions' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at:
https://afwkc.csd.disa.mil/

ACAD-3010 1.0 * B E G

Goal. Complete 'Solar X-Ray Flares & HF Communications' module.

Requirement. Perform the requirements of the 'Solar X-Ray Flares & HF Communications' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at:
https://afwkc.csd.disa.mil/

ACAD-3011 1.0 * B E G

Goal. Complete 'Equatorial Scintillation and UHF SATCOM' module.

Requirement. Perform the requirements of the 'Equatorial Scintillation and UHF SATCOM' module.

Performance Standard. Obtain completion certificate.

Instructor. Air Force Weather Knowledge Center

Prerequisite. 2053

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this module can be found at: https://afwkc.csd.disa.mil/

ACAD-3020 78.0 * B E G

Goal. Complete 'Applied Environmental Sciences' (AES) Course.

Requirement. Perform the requirements of the 'Applied Environmental Sciences' Course (Course Code: distance learning, WxAESA or resident, CID N66EB52).

Performance Standard. Complete the course.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references are held at the school house administering the course.

ACAD-3021 60.5 * B E G

Goal. Complete 'METOC Impacts Analyst Course (MIAC)' course

Requirement. Complete the course requirements in accordance with the established POI. (Distance Learning Course Code: WxMIAA or resident course, CID: N66WAL2)

Performance Standard. Complete the course.

Instructor. FLC Instructor, Web Based/MarineNet

Prerequisite. 3020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references are held at the school house administering the course

ACAD-3022 40.0 * B E G

Goal. Complete 'Riverine Analysis and Forecasting Course' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC-045-798-410-009)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. 2046, 2047, 2051

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Watershed Assessment of River Stability and Sediment Supply (WARSSS) 1st Edition, By: Dave Rosgen, Wildland Hydrology, 1 February 2007, ISBN-10: 0979130808
2. Applied River Morphology 2nd Edition, By: Dave Rosgen, Wildland Hydrology, 1 October 1996, ISBN-10: 0965328902
3. NOAA; http://www.nwrfc.noaa.gov/info/water_cycle/hydrology.cgi
4. NTTP 3-06.1, Riverine Operations
5. SUNY ESF, Department of Environmental Resources Engineering
6. FM 90-13, River-Crossing Operations
7. Meteorology Today 9th Edition By: C. Donald Ahrens Publication Date 02 July 2008 ISBN-10: 0495555738 AFWA TN 98-002 (revised Feb. 2012)
8. Kelsch, Matthew. Basic Hydrologic Sciences Distance Learning Course" MetEd, retrieved from http://meted.ucar.edu/.
9. All images are used under the Creative Commons© Licensing Program.
10. Meteorology for Scientist and Engineers 2nd Edition By:Roland B. Stull Publication Date: 2000 ISBN: 0-534-37214-7

ACAD-3023 8.0 * B E G

Goal. Complete 'METOC Support for Chemical, Biological, Radiological, and Nuclear Environment (CBRNE)' resident course.

Requirement. Complete the course requirements in accordance with the established POI.(Course Code: C-5B-0020)

Performance Standard. Obtain completion certificate.

Instructor. Local Navy PDD

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. ATP-45
2. HPAC User's Manual
3. HPAC NBC Primer
4. METOC Considerations for Chemical, Biological, and Nuclear WMD Analysis
5. Military Forces Guidebook SIPR Website
6. ATHENA-S WMO Share Counter-Proliferations Information Space
7. NBC Analysis Warning System
8. DTRA Website

ACAD-3024 24.0 * B E G

Goal. Complete 'METOC Support for Naval Special Warfare (NSW)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0021)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3025 24.0 * B E G

Goal. Complete 'Tactical Forecasting for Naval Special Warfare (NSW)' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-792-410-008)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3026 32.0 * B E G

Goal. Complete 'OA Division Tactical Team (OATT) Trainer: Basic' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0019)

Performance Standard. Complete resident course.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3027 32.0 * B E G

Goal. Complete 'OA Division Tactical Team (OATT) Trainer: Intermediate' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0023)

Performance Standard. Complete resident course.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-3028 32.0 * B E G

Goal. Complete 'OA Division Tactical Team (OATT) Trainer: Advanced' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: C-5B-0025)

Performance Standard. Complete resident course.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

4.11.4 METEOROLOGICAL SURFACE OBSERVATIONS (MSO) STAGE

4.11.4.1 Purpose. To develop proficiency in observing, recording and disseminating meteorological elements that comprise the surface meteorological reports (observations).

4.11.4.2 General.

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at observing atmospheric phenomenon,

units of measurement, quality control procedures and dissemination of parameters.

Prerequisite. None.

Crew Requirements. None.

MSO-3100 30.0 365 B,R,M E L

Goal. Conduct a surface meteorological observation.

Requirement. Observe, record, and disseminiate 30 surface meteorological observations from automated sensing equipment under supervision; five of which must be a SPECI. Perform the following:

1. Determine type of observation
2. Record type of observation.
3. Record time of observation.
4. Verify and record wind direction, speed, character, and significant wind events.
5. Evaluate, verify and record visibility.
   (a) Types and direction of obscuring phenomena.
   (b) Types and intensity of weather.
6. Determine and record sky condition.
   (a) Cloud type.
   (b) Cloud height.
   (c) Cloud direction and movement.
   (d) Cloud amount.
7. Read and record dry bulb and dew point temperatures.
8. Read and record current altimeter setting.
9. Encode and record applicable remarks.
10. Read and record station pressure.
11. Read and record sea level pressure.
12. Proof read recorded elements.
13. Initial observation, confirming accuracy of report.
14. Record summary of the day.

Performance Standard. Complete the requirements by practical application IAW the reference.

Instructor. SI

Prerequisite. 2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 1 - Surface Weather Observations and Reports, September 2005, FCM-H1-2005, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-3101 30.0 365 B,R,M E L

Goal. Conduct a surface meteorological observation.

Requirement. Observe, record, and disseminiate 30 surface meteorological observations from automated sensing equipment under supervision; five of which must be a SPECI. Perform the following:

1. Determine type of observation
2. Record type of observation.
3. Record time of observation.
4. Verify and record wind direction, speed, character, and significant wind events.
5. Evaluate, verify and record visibility.
   (a) Types and direction of obscuring phenomena.
   (b) Types and intensity of weather.
6. Determine and record sky condition.
   (a) Cloud type.
   (b) Cloud height.
   (c) Cloud direction and movement.
   (d) Cloud amount.
7. Read and record dry bulb and dew point temperatures.
8. Read and record current altimeter setting.
9. Encode and record applicable remarks.
10. Read and record station pressure.
11. Read and record sea level pressure.
12. Proof read recorded elements.
13. Initial observation, confirming accuracy of report.
14. Record summary of the day.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3141.2
2. Federal Meteorological Handbook No. 1 - Surface Weather Observations and Reports, September 2005, FCM-H1-2005, http://www.ofcm.gov/homepage/text/pubs.htm

MSO-3102 1.0 365 B,R,M E L

Goal. Encode and disseminate a pilot weather report (PIREP).

Requirement. Given a PIREP and appropriate forms, correctly encode and

disseminate 10 PIREPs. Perform the following:

1. Receive the PIREP via available communication device.
2. Annotate the data on the correct form.
3. Encode the PIREP.
4. Disseminate the PIREP via local and longline resources.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NAVMETOCCOMINST 3142.1_

4.11.5 ASTRONOMICAL/TIDAL DATA (ATD) STAGE

4.11.5.1 Purpose. To develop proficiency at deriving astronomical and tidal data.

4.11.5.2 General.

Prerequisite. 2000

Admin Notes. Upon completion of this stage of training, METOC personnel shall be able to compute or retrieve astronomical or tidal data.

Crew Requirements. None.

ATD-3150 1.0 365 B,R,M E L

Goal. Produce astronomical data.

Requirement. Utilizing appropraite software, produce the following astronomical data for 10 locations:

1. Sunrise/sunset.
2. Sun elevation angles/azimuth.
3. Beginning/ending of civil/nautical twilights.
4. Moonrise/moonset.
5. Lunar illumination.
6. Moon elevation angles/azimuth.
7. LUX values.
8. Shadows.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2000, 2300, 2301

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Geophysics Fleet Mission Program Library (GFMPL) Users Manual
2. MCWP 3-35.7

ATD-3151 1.5 180 B,R,M E L

Goal. Produce tidal data.

Requirement. Utilizing appropraite software, produce the following tidal data for 10 locations:

1. Tide height for a specific time.
2. Tide range for a specific time.
3. High tide.
4. Low Tide.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2000, 2003, 2004, 2048

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

4.11.6 EQUIPMENT (EQPT) STAGE

4.11.6.1 Purpose. To introduce academic or practical application of METOC equipment.

4.11.6.2 General.

Admin Notes.
(1) These events are related to mission skill proficiency readiness, and assist in core skill training.

(2) Local mission and operating procedures will dictate academic training required to support events. Local METOC officers and/or qualified METOC personnel shall review academic POIs for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

EQPT-3200 0.5 365 B,R,M E L

Goal. Operate the Automated Surface Observing System (ASOS).

Requirement. Operate the ASOS to retrieve, archive, and adjust weather elements in order to ensure accurate weather information is displayed.

1. Power on the ASOS terminal.
2. Log on as user.
3. Manipulate software to display desired screens.
4. Manipulate software to alter automated readings as required.
5. Archive ASOS data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Information regarding ASOS operations can be found at http://www.nws.noaa.gov/asos/

EQPT-3201 24.0 365 B,R,M E L

Goal. Operate garrison METOC equipment in order to provide support to base operations.

Requirement. Configure, operate, and conduct operator level troubleshooting of the following METOC systems:

1. Applicable lightning tracking system.
2. Pilot Metro Voice Frequency (PMSV) Radio.
3. Weather Vision.
4. Hand Held equipment (PMQ-3, psychrometers).
5. Kestrel
6. Automated Surface Observing System (ASOS).

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. ASOS reference http://www.nws.noaa.gov/asos/
2. PMSV http://navyflightmanuals.tpub.com/P-806/P-8060103.htm
3. PMQ http://meteorologytraining.tpub.com/14269/css/14269_105.htm
4. Kestrel http://www.kestrelmeters.com/

EQPT-3202 6.0 365 B,R,M E L

Goal. Conduct management operations for the meteorological radar system.

Requirement. Given a Doppler radar system, applicable operating manuals and understanding the configurations, limitations, and capabilities of Doppler radar systems, display a working knowledge of Doppler radar management functions. Configuration should allow for ingest, analysis, manipulation, and production of derived radar products. Perform, at a minimum, the following tasks:

1. Ensure configuration is commensurate with desired product generation.
   (a) Pulse repetition frequency.
   (b) Sample rates.
   (b) Gate width.
   (c) Beam width.
   (d) Operating frequency.
   (e) Scanning speeds.
2. Archive generated products.
3. Ensure Doppler radar products are available through electronic means to the end customer.
4. Ensure hazards of electromagnetic radiation to fuels (HERF) procedures are implemented and adhered to.
5. Ensure hazards of electromagnetic radiation to personnel (HERP) procedures are implemented and adhered to.
6. Ensure hazards of electromagnetic radiation to ordnance (HERO) procedures are implemented and adhered to.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2402

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Organizational Level Maintenance Instructions for AN/UMK-4(v)4, TESS/NITES, EE100-FF-OMI-010 REV 7
2. Automated Weather Observing System Operating Instructions

EQPT-3204 1.0 180 B,R,M E L

Goal. Setup or assist with the setup of the AN/UMK-4(v)4, TESS/NITES.

Requirement. In accordance with the references, setup or assist with the setup of the AN/UMK-4(v)4, TESS/NITES.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Organizational Level Maintenance Instructions for AN/UMK-4(v)4, TESS/NITES, EE100-FF-OMI-010 REV 7
2. Automated Weather Observing System Operating Instructions

EQPT-3205 12.0 180 B,R,M E L

Goal. Operate the AN/UMK-4(v)4 TESS/NITES.

Requirement. In a simulated or actual deployed environment, perform the following actions:

1. Deploy and setup of NITES IV.
2. Utilize directed means to provide METOC impact assessment to supported element.
3. Conduct satellite communications operations (if available) for data receipt and communications.
4. Conduct data receipt operations.
5. Conduct data transfer to and from the common operating picture via predetermined software to determine and provide relevant tactical METOC impact assessments.
6. Conduct graphical data retrieval and analyzation in support of impact assessment.
7. Conduct analyzation of locally sensed data for METOC impact assessment.
8. Develop impact assessment briefing for applicable MAGTF component for large-scale dissemination via oral, electronic and remote video

means.
9. Demonstrate how to send and receive e-mail's with the STRATOS Software.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. NITES SYSTEM MANUAL EE100-FF-OMI-010.
2. NITES SYSTEM ADMINISTRATOR MANUAL EE100-PR-SAM-010.

EQPT-3206 1.0 180 B,R,M E L

Goal. Pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.

Requirement. In accordance with the references, pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Organizational Level Maintenance Instructions for AN/UMK-4(v)4, TESS/NITES, EE100-FF-OMI-010 REV 7
2. Automated Weather Observing System Operating Instructions

EQPT-3207 1.0 365 B,R,M E L

Goal. Setup surface meteorological sensing systems.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.

2. Unpack the equipment.
3. Setup meteorological sensing equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference. The surface meteorological system must be setup within 45 minutes.

Instructor. BI

Prerequisite.

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction

EQPT-3208 1.0 365 B,R,M E L

Goal. Pack the surface meteorological sensing system.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction
3. 334-192046 Embarkation Guide

EQPT-3209 2.0 365 B,R,M E L

Goal. Setup the meteorological radar subsystem for integrated

operations.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological radar equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. E700XD Doppler Weather Radar Installation Guide and Users Manual

EQPT-3210 2.0 365 B,R,M E L

Goal. Pack the meteorological radar subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. E700XD Doppler Weather Radar Installation Guide and Users Manual
3. 334-192046 Embarkation Guide

EQPT-3211 1.0 365 B,R,M E L

Goal. Setup the meteorological satellite subsystem.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological satellite equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-3212 1.0 365 B,R,M E L

Goal. Pack the meteorological satellite subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

2. 334-192046 Embarkation Guide

EQPT-3213 1.0 365 B,R,M E L

Goal. Setup the meteorological upper air subsystem for integrated operations.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological upper air equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-3214 1.0 365 B,R,M E L

Goal. Pack the meteorological upper air subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. 334-192046 Embarkation Guide

EQPT-3215 1.0 365 B,R,M E L

Goal. Setup the meteorological communication subsystem.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological communication equipment.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List

EQPT-3216 1.0 365 B,R,M E L

Goal. Pack the meteorological communication subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction
3. 334-192046 Embarkation Guide

EQPT-3217 1.0 365 B,R,M E L

Goal. Setup the meteorological product generation and dissemination subsystem.

Requirement. As a member of a crew, given tools, the reference and a surface meteorological sensing system, complete the following steps:

1. Identify personnel and safety requirements.
2. Unpack the equipment.
3. Setup meteorological product generation and dissemination system.
4. Ground system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction

EQPT-3218 1.0 365 B,R,M E L

Goal. Pack the meteorological product generation and dissemination subsystem.

Requirement. Given the reference, an assembled surface meteorological sensing system, perform the following:

1. Inventory equipment and materials.
2. Disassemble the system.
3. Pack the system.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. EM000-CD-OMP-01 Operation and Maintenance Manual with Parts List
2. EE100-FF-OMI-01 Operation and Maintenance Instruction
3. 334-192046 Embarkation Guide

EQPT-3219 24.0 365 B,R,M E L

Goal. Operate the AN/TMQ-56 METMF(R) NEXGEN.

Requirement. In a simulated or actual deployed environment, perform the following actions:

1. Provide secured and unsecured pilot to METRO communications.
2. Provide tower to METRO communications.
3. Conduct METOC impact assessments to operations in Area of interest.
4. Conduct data transmission and reception operations.
   a. Configure METCAST.
   b. Retrieve CAGIPS data.
   c. Run NOWCAST model.
5. Conduct data transfer to and from the common operating picture to determine and provide relevant tactical METOC pictures.
6. Conduct secured and unsecured voice communications.
7. Retrieve the following products utilizing Dispatch Weather.
   a. Acquire and analyze all satellite imagery for the production of forecasts and assessment of impacts to MAGTF operations.
   b. Acquire and analyze all radar imagery for the production of forecasts/warnings, advisories and assessment of impacts to MAGTF operations.
   c. Acquire and analyze synoptic, mesoscale and microscale METOC model output for the production of forecasts and assessment of impacts to MAGTF operations
8. Acquire, analyze, encode and disseminate local and remotely sensed surface observations for the production of forecasts and assessment of impacts to MAGTF operations.
9. Conduct upper atmospheric observations for the production of forecasts and assessment of impacts to MAGTF operations.
10. Acquire and analyze all lightning data for the production of forecasts/warnings, advisories and assessment of impacts to MAGTF operations.
11. Develop impact assessment briefing, for applicable MAGTF components, for large-scale dissemination via oral, electronic,or remote means.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2402, 2403, 2404, 2405, 2406, 2407, 3202, 3207, 3209, 3211, 3213, 3215, 3217

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Operations and Maintenance Manual with Parts List, AN/TMQ-56 Measuring Set, METMF(R) NEXGEN, EM000-CD-OMP-010

4.11.7 METEOROLOGICAL FORECASTING (METF) STAGE

4.11.7.1 Purpose. To develop proficiency in meteorological forecasting and mission specific equipment, elements and products.

4.11.7.2 General.

Prerequisites. None

Admin Notes. Upond completion of this stage of training, METOC personnel shall be proficient in meteorological forecasting and mission specific support requirements.

Crew Requirements. None

METF-3250 26.0 365 B,R,M E L

Goal. Produce a Terminal Aerodrome Forecast (TAF).

Requirement. Use available meteorological data to assess and interpret meteorological conditions to complete a minimum of 12 TAFS with 50% of the TAFS for other than their current location.

Performance Standard. Complete the requirement by practical application IAW the reference.

Instructor. SI

Prerequisite. 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3300, 3303

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. NAVMETOCCOMINST 3143.1_, Terminal Aerodrome Forecast (TAF) and the FM51-XII TAF Code
2. AFWA/TN-98/002 Revised, 21 February 2007
3. AFH 11-203(v2), 16 May 2002
4. Aerographer's Mate Second Class, Volume I METOC Training Manual
5. Aerographer's Mate Second Class, Volume II METOC Training Manual

METF-3251 6.0 365 B,R,M E L

Goal. Produce a limited data forecast.

Requirement. Given three METOC products and a location, produce a limited data forecast for a period of 48 hours and verify for accuracy.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual

4.11.8 METOC PRODUCT BRIEFING (MPB) STAGE

4.11.8.1 Purpose. To develop proficiency in the techniques and tactics used to verbally present current and future states of the atmosphere.

4.11.8.2 General.

Prerequisites. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be proficient in conducting METOC briefings in support of mission requirements.

Crew Requirements. None

MPB-3300 2.0 365 B,R,M E L

Goal. Produce a flight weather packet.

Requirement. In accordance with the reference and given a flight weather packet request, prepare and brief 2 flight weather packets within 2 hours.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Flight Weather Briefing Manual, NAVMETOCCOMINST 3140.14F, May 2011.
2. NATOPS General Flight and Operating Instructions, OPNAV Instruction 3710.7U, November 2009.
3. Terminal Aerodrome Forecast (TAF) Code, NAVMETOCCOMINST 3143.1H, June 2011.
4. AFWA/TN-98/002 Revised, 21 February 2007
5. AFH 11-203(v2), 16 May 2002
6. Aerographer's Mate Second Class, Volume I METOC Training Manual
7. Aerographer's Mate Second Class, Volume II METOC Training Manual

MPB-3301 0.1 365 B,R,M E L

Goal. Brief a flight weather briefing (DD 175-1).

Requirement. Conduct a brief for 10 DD 175-1s.

Performance Standard. Complete the requirement by practical application. Instructor will ensure all pertinent information is briefed.

Instructor. SI

Prerequisite. 2601

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Flight Weather Briefing Manual, NAVMETOCCOMINST 3014._14
2. NATOPS General Flight and Operating Instructions, OPNAV Instruction 3710.7_

3. Terminal Aerodrome Forecast (TAF) Code, NAVMETOCCOMINST 3143.1_

MPB-3302 2.0 180 B,R,M E L

Goal. Produce a 96-hour graphical METOC brief.

Requirement. Use available meteorological data to assess and interpret meteorological conditions to complete a minimum of 6, 96-hour graphical METOC briefs. The brief should include the following at a minimum:

1. Forecast conditions.
2. Sky condition.
3. Min and max temp
3. Winds.
4. Visibility.
5. Weather.
6. Astronomical data.
7. Brief the final product.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3250

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. AFWA/TN-98/002 Revised, 21 February 2007
2. AFH 11-203(v2), 16 May 2002
3. Aerographer's Mate Second Class, Volume I METOC Training Manual
4. Aerographer's Mate Second Class, Volume II METOC Training Manual
5. Weather Map Handbook 2nd Edition By: Tim Vasquez Publication Date: 2008 ISBN: 0-9706840-7-X
6. Weather Analysis and Forecasting Handbook By: Tim Vasquez Publication Date: 2011 ISBN-10: 0-978-0-9832533-0-3
7. MCWP 3-35.7

MPB-3303 12.0 365 B,R,M E L

Goal. Generate and conduct a climatology brief.

Requirement. Research and prepare a three-month climatology brief for

a specified location. Elements to be included in the brief include, but are not limited to, the following:

1. Overview.
2. Geography.
3. Terrain.
4. Oceanography.
5. Astronomical.
6. Specific weather elements, if applicable:
   (a) Relative humidity.
   (b) Temperature.
   (c) Thunderstorms/precipitation.
   (d) Prevailing winds.
   (e) Sky condition.
   (f) IFR/VFR/Marginal VFR percentages.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2003, 2004, 2036

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Global Physical Climatology Volume 56 By: Dennis L. Hartmann
   Published on 14 June 1994 ISBN-10: 0123285305
2. MCWP 3-35.7

MPB-3304 3.0 * B,R E L

Goal. Conduct an aviation strike brief.

Requirement. Prepare and present an aviation (mission specific) strike weather brief within 3-hours. Include the following information:

1. Nephanalysis.
2. Enroute weather.
   (a) Sky condition.
   (b) Weather.
   (c) Visibility/Slant range visibility (NM).
   (d) Sea surface temperature/in-water survival time.
   (e) Winds.
   (f) Temperatures.
   (g) Turbulence.
   (h) Icing.
   (i) Contrail formation.
   (j) Ditch heading (if applicable).
3. Target Area Weather (repeat for each area).
   (a) Sky condition.
   (b) Weather.

(c) Visibility/slant range visibility (NM).
(d) Surface winds.
(e) Maximum/minimum temperatures.
(f) Cloud tops/ceilings.
(g) Freezing level.
(h) D-Values (if applicable).

4. Astronomical Data.
(a) Sunrise/Sunset.
(b) Sun elevation angles/azimuth.
(c) Beginning/ending civil/nautical twilights.
(d) Moonrise/moonset.
(e) Lunar illumination.
(f) Moon angles elevation/azimuth.
(g) Lux values.
(h) Shadow forecast.

5. 48-hour outlook.
6. Tactical assessment.
7. Electro-Optical sensor performance predictions.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MPB-3305 3.0 * B,R E L

Goal. Conduct an aviation assault brief.

Requirement. Prepare and present an aviation (mission specific) assault weather brief within 3-hours. Include the following information:

1. Nephanalysis.
2. Enroute weather.
(a) Sky condition.
(b) Weather.
(c) Visibility/Slant range visibility (NM).
(d) Sea surface temperature/in-water survival time.
(e) Winds.
(f) Temperatures.
(g) Turbulence.
(h) Icing.
(i) Contrail formation.

(j) Ditch heading (if applicable).

3. Target Area Weather (repeat for each area).
   (a) Sky condition.
   (b) Weather.
   (c) Visibility/slant range visibility (NM).
   (d) Surface winds.
   (e) Maximum/minimum temperatures.
   (f) Cloud tops/ceilings.
   (g) Freezing level.
   (h) D-Values (if applicable).
4. Astronomical Data.
   (a) Sunrise/Sunset.
   (b) Sun elevation angles/azimuth.
   (c) Beginning/ending civil/nautical twilights.
   (d) Moonrise/moonset.
   (e) Lunar illumination.
   (f) Moon angles elevation/azimuth.
   (g) Lux values.
   (h) Shadow forecast.
5. 48-hour outlook.
6. Tactical assessment.
7. Electro-Optical sensor performance predictions.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MPB-3306 8.0 * B,R E L

Goal. Conduct an amphibious warfare brief.

Requirement. Prepare and present an amphibious warfare brief within 6-hours. Include the following information:

1. Current weather information.
2. 24-hour weather forecast.
3. Aviation parameters.
4. Surf/MSI observation/forecast.
5. Sea conditions observation/forecast.
6. Tactical assessment.
7. Atmospheric refractive summary.
8. Astronomical data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MPB-3307 2.0 * B,R E L

Goal. Conduct a Search and Rescue (SAR) brief.

Requirement. Prepare and conduct the following:

1. Current and forecast weather information for predetermined areas of operation.
2. Utilizing appropriate software and/or charts, provide mission planning forecasts to include, but not limited to:
   (a) Water temperatures.
   (b) Drift data.
   (c) Survival times.
   (d) Current speed and direction.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Navy Search and Rescue (SAR) Manual, NTTP 3-50.1
2. MCWP 3-35.7

4.11.9 LITTORAL FORECASTING/ANALYSIS (LFA) STAGE

4.11.9.1 Purpose. To acquire proficiency in collecting, analyzing and forecasting oceanographic and littoral parameters.

4.11.9.2 General.

Prerequisites. None

Admin Notes. Upon completion of this stage of training, METOC personnel shall be competent at forecasting and analyzing oceanographic and littoral parameters.

Crew Requirements. None

LFA-3350 1.0 180 B,R,M E L

Goal. Compute Modified Surf Index (MSI).

Requirement. Given mission parameters, observed/forecasted conditions/parameters and appropriate software or forms, generate MSI for three locations.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2900, 3151

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Joint Surf Manual COMNAVSURFPAC/LANT 3840.1_.
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

LFA-3351 24.0 180 B,R,M E L

Goal. Create a surf forecast.

Requirement. Utilizing appropriate program and requirements for operations, generate a surf forecast that contains the listed components:

1. Beach survey.
2. Significant breaker height.
3. Maximum breaker height.
4. Breaker period.
5. Breaker type.
6. Breaker angle.
7. Littoral current speed and direction.
8. Modified surf index.
9. Wind direction in surf zone.
10. Beach profile data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2900, 3151, 3350

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Joint Surf Manual COMNAVSURFPAC/LANT 3840.1_.
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)
3. Aerographer's Mate Second Class Vol II METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

4.11.10 METOC IMPACT ASSESSMENT (MIA) STAGE

4.11.10.1 Purpose. To acquire proficiency in the processes and products that assist in providing assessment of atmospheric conditions to mission specific support requirements.

4.11.10.2 General.

Prerequisites. None

Admin Notes. None

Crew Requirements. None

MIA-3400	3.0	365	B,R,M	E	L

Goal. Produce METOC impacts on command, control, and communication (C3) operations.

Requirement. Assess and brief the METOC impacts on C3 operations. The assessment will consider, at a minimum, the following:

1. Space weather.
2. Temperature profile.
3. Precipitation.
4. Snow depth and coverage.
5. EM propagation.
6. Hazardous weather.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MIA-3401 3.0 365 B,R,M E L

Goal. Produce METOC impacts on MAGTF operations.

Requirement. After conducting a thorough mission analysis, utilize METOC equipment to assess and brief METOC impacts on MAGTF operations. The assessment shall include, at a minimum, the following essential elements:

1. Mission weather.
2. Tactical Decision Aids.
3. Astronomical data.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MIA-3402 3.0 365 B,R,M E L

Goal. Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.

Requirement. Produce mission specific impact assessments for the listed missions. Exhibit a comprehensive knowledge of METOC element impacts on the major platforms and support activities of the following:

1. Humanitarian aid missions.
2. Deep strike missions.
3. Force on force missions.
4. Over the horizon missions.
5. Counterinsurgency missions.

6. Tactical Decision Aids.
   a. Weapons of mass destruction.
   b. Laser guided munitions.
   c. Infrared guided munitions.
   d. Visual guided munitions.
   e. GPS guided munitions.
7. Communications.
   a. Satellite.
   b. UHF/VHF.
8. Trafficability.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011, 3401

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. Applicable JPs

4.11.11 MANAGEMENT (MGT) STAGE

4.11.11.1 Purpose. To acquire proficiency in the management of METOC operations within a MAGTF unit, Joint or Coalition Command.

4.11.11.2 General.

Prerequisite. None

Admin Notes. The following apply to this stage of training:

(1) All personnel shall be assigned this stage of training upon completion of the Core Skill Introduction phase and prior to assignment to any other stage.

(2) Upon completion of this stage of training, the METOC Officer shall be competent in managing a MAGTF, Joint, or Coalition METOC capability.

Crew Requirements. None

MGT-3450 24.0 365 B,R,M E L

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

Requirement. Given a scenario or operational deployment and Commander's Guidance, deploy the METOC section:

1. Review operational requirements and develop an EDL.
2. Coordinate for support equipment as required.
3. Verify and complete Bill of Materials.
4. Establish SECREP 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. Coordinate with external agencies as required.

Performance Standard. With the aid of reference, complete the requirement.

Instructor. WTI

Prerequisite. 2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3500

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. Local Directives and Standard Operating Procedures (SOP)

MGT-3451 12.0 365 B,R,M E L

Goal. Manage METOC Operations in support of unit exercise or deployment.

Requirement. Given a scenario or operational deployment and Commander's Guidance, manage METOC operations:

1. Develop SOPs.
2. Develop crew schedules.
3. Coordinate METOC support requirements/products with external agencies.
4. Develop, implement, and execute a training plan.
5. Ensure security procedures are being followed.

Performance Standard. With the aid of reference, complete the requirement.

Instructor. WTI

Prerequisite. 2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3450, 3500

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

4.11.12 METOC PLANNING COORDINATION (MPC) STAGE

4.11.12.1 Purpose. To acquire proficiency in the development of Annexes and Op Orders. This stage also develops an understanding of the METOC integration into Joint Operations and support of Intel Operations.

4.11.12.2 General.

Prerequisite. None

Admin Notes. None

Crew Requirements. None

MPC-3500 8.0 * B E L

Goal. Submit input to annexes of operational orders.

Requirement. Submit METOC input to the annexes of operational orders and LOIs to the requesting command. Complete the requirement on each of the following:

1. Intelligence operations, Annex B.
2. Environmental operations, Annex H.
3. Collection plan, Annex J.
4. Communications and information systems, Annex K.

Performance Standard. Complete the requirement by practical application.

Instructor. WTI

Prerequisite. 2057, 2058, 2059

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7

MPC-3505 35.0 730 B,R,M E L

Goal. Conduct METOC support for Intelligence Operations.

Requirement. Provide METOC support through all phases of Intelligence Operations execution operations. Complete, at a minimum, the following items:

1. Participate in target package development.
2. Coordinate METOC support requirements for the targeting cycle.
3. Develop and produce Targeting METOC Products.
4. Participate in Collections Operations Management (COM) working group.
5. Coordinate METOC support requirements for COM.
6. Develop and produce COM METOC Products.

Performance Standard. Complete the requirement by practical application.

Instructor. WTI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. MCWP 2-2
3. MCWP 2-21
4. MCWP 2-22
5. MCWP 2-24B
6. MCWP 2-26
7. MCWP 2-3
8. MCWP 2-4
9. MCWP 2-6
10. Local Directives and Standard Operating Procedures (SOP)
11. JP 3-60
12. MCRP 3-16A
13. MCWP 2-1
14. MCWP 2-3

4.12 CORE PLUS SKILL PHASE (4000)

4.12.1 Purpose. This level contains core skill training associated with low probability of execution and/or theater specific operations. Although Core Plus training events may provide valuable training opportunities, they are not considered essential to achieve unit Core Competency. Core Plus training is conducted at the discretion of operational commanders and allows unit training flexibility. Upon completion of the Core Plus Phase, an individual is considered core skill proficient and one-hundred percent combat ready. Core Competency for operational units resides in the 2000-3000 training levels (considered 'Core' at the operational echelon). Mastery of 2000-3000 level Core Skills results in highly trained personnel who contribute to the unit's overall warfighting capability and enables a combat unit to accomplish

its assigned mission. Therefore, operational units shall emphasize individual proficiency in 2000-3000 level Core Skills. In some instances, certain Core Plus skills may be deemed essential depending on mission requirements and therefore may be considered Core Skills for pre-deployment readiness determination. Only the MAW or MAGTF commander may "re-designate" a Core Plus Skill to the Core Skill level for readiness reporting purposes.

4.12.2 General

4.12.2.1 Prerequisites. None

4.12.2.2 Admin Notes. A comprehensive brief and debrief will be conducted for each mission per squadron SOPs.

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

PAR NO.	STAGE NAME
4.12.3	ACADEMIC TRAINING (ACAD)
4.12.4	LITTORAL FORECASTING/ANALYSIS (LFA)
4.12.5	METOC IMPACT ASSESSMENT (MIA)
4.12.6	MANAGEMENT (MGT)
4.12.7	MARINE ATC MOBILE TEAM MEMBER (MMTM)

4.12.3 ACADEMIC TRAINING (ACAD) STAGE

4.12.3.1 Purpose. The stage outlines all relevant computer based training modules, correspondence courses, instructor-led distance learning courses, and formal resident courses to assist in the completion of events within the 2000 level phase of training.

4.12.3.2 General

Prerequisite. None

Admin Notes.

(1) Each event specifies the location of the training materials.

(2) Upon completion of academic events, personnel should print completion certificates for entry into Basic Training Records (BTR). Copies of completion certificates shall be placed within and maintained in individual training jackets.

(3) A general description of each type of training materials is as follows:

- Correspondence Course – A written publication that may or may not include testing materials.
- Computer Based Training – Self-paced learning modules that may be accessed via a CD-ROM/DVD or website.
- Instructor-Led Distance Learning – Formal courses of instruction that are accessed and facilitated via the internet (NIPRNET or SIPRNET)

- Resident Courses – Formal courses of instruction in which the student physically attends, normally at another location.

Crew Requirements. None

ACAD-4000 16.0 * B E G

Goal. Complete 'Mediterranean Forecast Course' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: S-5B-0003)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-4001 16.0 * B E G

Goal. Complete 'Central Command (CENTCOM) AOR Forecasting' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: S-5B-0005)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-4002 16.0 * B E G

Goal. Complete 'METOC Forecasting for COMSEVENTHFLT AOR' resident course.

Requirement. Complete the course requirements in accordance with the established POI. (Course Code: METOC 045-841-411-011)

Performance Standard. Obtain completion certificate.

Instructor. FLC Instructor

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for this course are maintained at the local Navy PDD.

ACAD-4021 2.0 * B E G

Goal. Complete 'Lean Six Sigma White Belt' course.

Requirement. Perform the requirements of the 'Lean Six Sigma White Belt' course. (Course Number: NETC-LSSWB-1.0)

Performance Standard. Obtain completion certificate.

Instructor. Web Based/NKO

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. All references for module can be found at Navy eLearning: https://www.lms.prod.nel.training.navy.mil/Atlas2/faces/page/desktop/DesktopHome.seam?tabId=1&cid=tab_1#

ACAD-4022 8.0 * B E G

Goal. Complete 'Lean Six Sigma Yellow Belt' course.

Requirement. Perform the requirements of the 'Lean Six Sigma Yellow Belt' course.

Performance Standard. Obtain completion certificate.

Instructor. Local MALS AIRSpeed Shop

Prerequisite. 4021

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. United Stated Marine Corps Continuous Process Improvement (CPI) Guidebook
2. COMNAVAIRFORINST 4790.2A (NAMP)
3. DoD Directive 5010.42
4. DoD Instruction 5010.43
5. DoD CPI Transformation Guidebook
6. SECNAVINST 5220.13
7. SECNAVINST 5220.14
8. SECNAV M-5214.1
9. MCO 3710.7 USMC Current Readiness Guidebook
10. MCO 4400.177F (ASDTP W/CPI)
11. MCO 5220.12 Marine Corps CPI
12. NAE AIRSpeed Green Belt Guidebook

4.12.4 LITTORAL FORECASTING/ANALYSIS (LFA) STAGE

4.12.4.1 Purpose. To develop core plus proficiency on the processes and products that assist in providing assessment of atmospheric conditions affecting littoral regions.

4.12.4.2 General

Prerequisite. None

Admin Notes. None

Crew Requirements. None

LFA-4100	30.0	720	B,R,M	E	L

Goal. Conduct a surf observation.

Requirement. Utilize appropriate equipment to observe and annotate a surf observation. Perform the following:

1. Determine point of observations.
2. Determine and annotate:
   (a) Significant breaker height.
   (b) Maximum breaker height.
   (c) Breaker period.
   (d) Breaker types.
   (e) Angle of breaker relative to beach.
   (f) Littoral current.
   (g) Surf zone.

(h) Additional remarks.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2900

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Joint Surf Manual COMNAVSURFPAC/LANT 3840.1_.
2. Aerographer's Mate Third Class METOC Training Manual (https://www.nko.navy.mil/group/aviation/ag)

4.12.5 METOC IMPACT ASSESSMENT (MIA) STAGE

4.12.5.1 Purpose. To acquire proficiency in the processes and products that assist in providing assessment of atmospheric conditions to mission specific support requirements.

4.12.5.2 General.

Prerequisites. None

Admin Notes. None

Crew Requirements. None

MIA-4150 24.0 * B,R E L

Goal. Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.

Requirement. Produce mission specific impact assessments for the listed missions. Exhibit a comprehensive knowledge of METOC element impacts on the major platforms and support activities of the following:

1. Humanitarian aid missions.
2. Deep strike missions.
3. Force on force missions.
4. Over the horizon missions.
5. Counterinsurgency missions.
6. Tactical Decision Aids.
   a. Weapons of mass destruction.
   b. Laser guided munitions.
   c. Infrared guided munitions.
   d. Visual guided munitions.
   e. GPS guided munitions.

7. Communications.
   a. Satellite.
   b. UHF/VHF.
8. Trafficability.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-35.7
2. Applicable JPs

MIA-4152 3.0 * B,R E L

Goal. Assess METOC impacts on Chemical, Biological, Radiological and Nuclear (CBRN) defensive operations.

Requirement. Assess and brief METOC impacts on CBRN operations. The assessment will consider, at a minimum, the following:

1. Meteorological Forecast and/or Observation to include at a minimum:
   (a) Sky condition.
   (b) Humidity.
   (c) Wind.
   (d) Temperature.
   (e) Atmospheric stability.
   (f) Precipitation.
2. Plume Forecast.

Performance Standard. Complete the requirement by practical application.

Instructor. SI

Prerequisite. 2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. MCWP 3-35.7

4.12.6 MANAGEMENT (MGT) STAGE

4.12.6.1 Purpose. To become proficient in the basic management skills required to direct METOC support operations.

4.12.6.2 General.

Prerequisites. None

Admin Notes. Upon completion of this stage of training, the METOC Marine shall be proficient in certain aspects of managing a METOC section.

Crew Requirements. None

MGT-4254 8.0 1095 B,R,M E L

Goal. Perform System Administration.

Requirement. Given a scenario, ensure the following:

1. Manage disaster recovery plan.
2. Manage logfiles.
3. Manage user accounts.
4. Apply software release updates.
5. Monitor disk space.
6. Manage system passwords.

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

Instructor. SI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. 0222561 Software User Manual
2. EE100-PR-SAM-B10 System Administration Manual

4.12.7 MARINE ATC MOBILE TEAM MEMBER (MMTM) STAGE

4.12.7.1 Purpose. To achieve skills required for the METOC Marine to become a proficient member of the Marine ATC Mobile Team.

4.12.7.2 General

Prerequisite. None.

Admin Notes. This stage of training is taught by the Marine ATC Mobile Team Leader (72XX).

Crew Requirements. None.

MMTM-4300 6.0 * B E L

Goal. Conduct MMT assault landing zone (ALZ) Operations.

Requirement. Given the required equipment at a LZ or simulated LZ with a six-member MMT and the references, conduct the following during day and night conditions:

1. Establish and retrograde an airfield marking pattern (AMP)-1.
2. Establish and retrograde an AMP-2.
3. Establish and retrograde an AMP-3.

Performance Standard. Complete the requirement items IAW the references. Rapidly and accurately accomplish the requirement steps while serving in at least three of the six billets associated with the establishment of a C-130 ALZ. Panels or lights were properly aligned and securely fixed to the ground without error.

Instructor. BI (MMTL)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. One ALZ capable of supporting expeditionary C-130 operations.

Reference.
1. MMT TACSOP.
2. MAWTS-1 Course Catalog.

MMTM-4301 4.0 * B E L

Goal. Conduct MMT Helicopter Landing Zone (HLZ) Operations.

Requirement. Given the required equipment at an HLZ or simulated HLZ and the references, conduct the following during day and night conditions:

1. Mark the HLZ utilizing Bullet Traps.
2. Mark the HLZ utilizing an Inverted T.
3. Establish visual initial terminal guidance (ITG) during night operations.

Performance Standard. Complete the requirement items IAW the references. Dimensions of the markings were accurate and the marking of the HLZ met criteria. ITG was established and easily identified from

the air.

Instructor. BI (MMTL)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. One HLZ.

Reference.
1. MMT TACSOP.

MMTM-4302 12.0 * B,R E L

Goal. Conduct MMT land navigation operations.

Requirement. Given the required equipment in a field environment with a six-member MMT and a list of five MGRS locations, complete a land navigation course.

Performance Standard. Complete the requirement items IAW the references. Accurately locate the MGRS locations while navigating with a DAGR.

Instructor. BI (MMTL)

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MCWP 3-11.3, Scouting and Patrolling.
2. MCRP 3-11.2A, Marine Troop Leader's Guide (Chapter 3, Fire Team).

MMTM-4303 12.0 730 B,R,M E 1 AN/PSQ-34 L

Goal. Collect assault zone survey data using equipment organic to the MMT.

Requirement. Given the required equipment in a field environment, gather data for the completion of an assault zone survey to include as directed by the team leader:

1. Determine assault zone coordinates with GPS / DAGR.
2. Operate the laser range finder to determine distances and elevations of obstacles and terrain.
Elevations of obstacles and terrain.
3. Operate a clinometer to determine vertical and horizontal angles.

4. Determine runway gradients using line levels/yard sticks.
5. Operate dynamic cone penetrometer and collect data for analysis.

Performance Standard. Collect data under the supervision of the instructor with minor errors and corrections to support the completion of an assault zone survey and assessment.

Instructor. BI (MMTL)

Prerequisite. 2025 (DAGR), 20XX (DCP), 20XX (LRF)

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. MMT TACSOP.
2. MAWTS-1 C3 Course Catalog.
3. UFC 3-260-01, Airfield and Heliport Planning and Design
4. Engineering Technical Letter 04-7: C-130 and C-17 Landing Zone Dimensional, Marking and Lighting Criteria.
5. Engineering Technical Letter 02-19: Airfield Pavement Evaluation Standards and Procedures.

MMTM-4304 2.0 1460 B,R,M E L

Goal. Perform as a METOC MMT Member during operational planning.

Requirement. Given a warning order or fragmentary order during an operation or training exercise under the supervision of a qualified MMT Leader:

1. Prepare and account for team and individual equipment.
2. Conduct operational checks.
3. Program communication equipment
4. State the team mission and describe individual assignments as they pertain to the mission.
5. Successfully complete all tasks assigned by the team leader.

Performance Standard. Complete the requirement items proficiently, IAW the reference and with no errors.

Instructor. BI

Prerequisite. MATC T&R Chapter 3: 2025, 2026, 2030, 2031, 2200, 2204, 2205, 2208, 2310, 2311, 2312.

Ordnance. None

Range. None

External Syllabus Support. None

Reference.

1. MMT TACSOP.

MMTM-4305 2.0 * B,R E 1 AN/PSQ-34 L

Goal. Operate the Dynamic Cone Penetrometer (DCP).

Requirement. Given a DCP and the references:

1. Describe the purpose and use of the DCP.
2. Describe the components of the DCP.
3. Operate the DCP.
4. Record measurements from a DCP for 5 locations to a depth of 36 inches.

Performance Standard. Complete the requirement items IAW the references.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. DCP User's Manual
2. Engineering Technical Letter 2-19.

MMTM-4306 2.0 * B,R E 1 AN/PSQ-34 L

Goal. Operate the Laser Range Finder (LRF).

Requirement. Given a LRF and the references:

1. Describe the purpose and use of the LRF.
2. Describe the modes and programming of the LRF.
3. Operate the LRF.
4. Record five measurements for obstacles or terrain, including distance and height above observer location.

Performance Standard. Complete the requirement items IAW the references.

Instructor. BI

Prerequisite. None

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. LRF User's Manual

4.13 INSTRUCTOR TRAINING (5000) PHASE

4.13.1 Purpose. This phase contains instructor workup and evaluation certification syllabus events. This level will also contain instructor workup and certification syllabus events as applicable for Contract Instructors (CI) who instructs simulator events.

4.13.2 General

4.13.2.1 Prerequisite. None

4.13.2.2 Admin Notes.

(1) Each event specifies the location of the training materials.

(2) Upon completion of academic events, personnel should print completion certificates for entry into Basic Training Records (BTR). Copies of completion certificates shall be placed within and maintained in individual training jackets.

(3) A general description of each type of training materials is as follows:

- Correspondence Course – A written publication that may or may not include testing materials.
- Computer Based Training – Self-paced learning modules that may be accessed via a CD-ROM/DVD or website.
- Instructor-Led Distance Learning – Formal courses of instruction that are accessed and facilitated via the internet (NIPRNET or SIPRNET)
- Resident Courses – Formal courses of instruction in which the student physically attends, normally at another location.

Total Training Events. 9 Events, XX.X Hours

4.13.2.3 Stages. The following stage is included in the Instructor 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 General. The MAWTS-1 C3 Course catalog contains the training requirements for above listed instructors. The catalog is located at the MAWTS-1 website, https://www.intranet.tecom.usmc.mil/sites/mawts1/default.aspx. The table below lists all IUT events.

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

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.
WTI	Mission Skill, Core Plus, and Qualification events. WTI: - Evaluate and recommend for qualification - Endorse recommendations for position designations
Notes	1. The Commanding Officer is the approving authority for qualifications and designations.

4.14 REQUIREMENTS, CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS (6000)

4.14.1 Purpose. This phase contains tracking codes for designations and training that provide community standardization for combat leadership and instructor designations. This syllabus does not include "one time" certification training.

4.14.2 General.

4.14.2.1 Prerequisite. Completion of the ACPM, academics, Core, Mission, and or Core Plus Skill events required for the position being trained.

4.14.2.2 Admin Notes.

(1) The squadron WTI shall review the Individual Performance Record (IPR) to ensure all required training, documentation and administrative actions have been completed prior to staffing qualification or designation recommendations for approval.

(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 will the qualification or designation be effective.

4.14.2.3 Stages. The following stage is included in the Instructor Under Training Phase of training.

PAR NO.	STAGE NAME

4.14.3	SCHOOL CODES (SCHL)
4.14.4	QUALIFICATIONS (QUAL)
4.14.5	CERTIFICATIONS (CERT)
4.14.6	DESIGNATIONS (DESG)

4.14.3 SCHOOL CODES (SCHL) STAGE

4.14.3.1 Purpose To designate courses for METOC personnel to attend to meet training requirements.

4.14.3.2 General.

Prerequisite. As dictated by individual school.

Administrative Notes. None

Crew Requirement. None

SCHL CODE	NAME OF COURSE	LOCATION	CID
SCHL-6000	Weapons and Tactics Instructor (WTI)	MCAS Yuma, AZ	M14P2A1

4.14.4 QUALIFICATIONS (QUAL) STAGE

4.14.4.1 Purpose To qualify personnel in various METOC positions.

4.14.4.2 General.

Prerequisite. Completion of the required academic modules and core mission, and core plus skill events for the position being trained in.

Administrative Notes.

(1) During evaluation of the event performance standard, the instructor may provide minimal guidance. However, the instructor should guide and mentor the trainee during the training session and after an event evaluation.

(2) Personnel being recommended for qualification must perform the evaluation event to a proficient level. A proficient level is defined as the ability to efficiently and skillfully correct errors without hesitation and with minimal or no input from the Instructor.

(3) All METOC qualification events will be evaluated by a SI or WTI, and recommended by a WTI for approval. If a squadron does not have a WTI, the commanding officer can assign an SI who is proficient in the position being evaluated to serve as the evaluator.

(4) Policy on attaining, maintaining and regaining a qualification is contained in chapter 2 of reference (a).

(5) All qualifications in this syllabus are E-coded, therefore,

the event evaluation forms used for qualification events shall be retained in the IPR permanently.

Crew Requirement. None

QUAL-6200 1.0 * B L

Goal. Qualify as a METOC Observer (MO).

Requirement. Complete the required training in the MO POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 3100, 3101, 3102, 3150, 3151

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

QUAL-6201 1.0 * B L

Goal. Qualify as an Apprentice METOC Analyst Forecaster (AMAF).

Requirement. Complete the required training in the AMAF POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3101, 3102, 3150, 3151, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

QUAL-6202 1.0 * B L/S

Goal. Qualify as a Journeyman METOC Analyst Forecaster (JMAF).

Requirement. Complete the required training in the JMAF POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

QUAL-6203 1.0 * B G

Goal. Qualify as a METOC Support Team Observer (MSTO).

Requirement. Complete the required training in the MSTO POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2700, 2701, 2702, 2703, 3004, 3026, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 6200, 6211

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

QUAL-6204 1.0 * B G

Goal. Qualify as a METOC Support Team Forecaster (MSTF).

Requirement. Complete the required training in the MSTF POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 3001, 3002, 3003, 3004, 3022, 3023, 3024, 3025, 3026, 3027, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

QUAL-6205 1.0 * B G

Goal. Qualify as a METOC Support Team Leader (MSTL).

Requirement. Complete the required training in the MSTL POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020,

2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2101, 2108, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3505, 6200, 6201, 6202, 6203, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

QUAL-6206 1.0 * B G

Goal. Qualify as a Marine Air Traffic Control Mobile Team (MMTM).

Requirement. Complete the required training in the MMTM POI. Be recommended by a WTI to the commanding officer who will approve the qualification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2400, 2401, 2700, 2701, 2702, 2703, 2704, 3004, 3026, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 4300, 4301, 4302, 4303, 4304, 4305, 4306, 6200, 6203, 6320

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

4.14.5 CERTIFICATIONS (CERT) STAGE

4.14.5.1 Purpose To certify personnel in unit specific METOC positions.

4.14.5.2 General.

Prerequisite. Completion of the required academic modules and core mission, and certification events for the position being trained in.

Administrative Notes. These certifications are coupled with the base qualification.

Crew Requirement. None.

CERT-6210 1.0 * B G

Goal. Certify as a Station MO.

Requirement. Complete the required training in the Station MO POI. Be recommended by an SI or WTI to the commanding officer who will approve the certification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2350, 2400, 3100, 3101, 3102, 3150, 3151, 3200, 3201, 6200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

CERT-6211 1.0 * B G

Goal. Certify as a Tactical MO.

Requirement. Complete the required training in the Tactical MO POI. Be recommended by a WTI to the commanding officer who will approve the certification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 6200

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

CERT-6212 1.0 * B L

Goal. Certify as a Tactical AMAF.

Requirement. Complete the required training in the Tactical AMAF POI. Be recommended by a WTI to the commanding officer who will approve the certification in writing.

Performance Standard. N/A

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2402, 2403, 2404, 2405, 2406, 2407, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3101, 3102, 3150, 3151, 3202, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

4.14.6 DESIGNATIONS (DESG) STAGE

4.14.6.1 Purpose To designate personnel in various METOC positions.

4.14.6.2 General.

Prerequisite. Completion of the required academic modules and core mission, and designation events for the position being trained in.

Administrative Notes.

(1) Once an individual has met the designation prerequisistes and has been recommended for the combat leadership position or instructor position, they may be designated by the Commanding Officer or the CO's designated individual.

(2) Designation of instructors is done once an individual has completed the 5000 phase events for that instructor position and has been found to meet all instructor requirements.

(3) Designations are at the discretion of the Commanding Officer and can be revoked upon CO decision or transfer from command.

Crew Requirement. None.

DESG-6300 1.0 * B L

Goal. Designation as a Regional METOC Center Chief (RMCC).

Requirement. Complete the following:
1. Complete the prerequisites under the supervision of a unit instructor.
2. Be recommended by a unit WTI.
3. The commanding officer will designate the RMCC in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

DESG-6301 1.0 * B L

Goal. Designation as a Marine Air Traffic Control Detachment METOC Chief (MMC).

Requirement. Complete the following:
1. Complete the prerequisites under the supervision of a unit

instructor.
2. Be recommended by a unit WTI.
3. The commanding officer will designate the MMC in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

DESG-6302 1.0 * B L

Goal. Designation as a Intel METOC Chief (IMC).

Requirement. Complete the following:
1. Complete the prerequisites under the supervision of a unit instructor.
2. Be recommended by a unit WTI.
3. The commanding officer will designate the IMC in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. N/A

Instructor. WTI

Prerequisite. 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020,

2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit Tables of Organization (T/Os)

DESG-6320 1.0 * B L

Goal. Designation as a Basic Instructor (BI).

Requirement. Complete the following:
1. Complete the prerequisites under the supervision of a unit instructor.
2. Be recommended by a unit SI or WTI.
3. The commanding officer will designate the BI in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. Complete the requirement items.

Prerequisite. 5000, 5010, 5020

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit CMMR
2. MAWTS-1 C3 Course Catalog

DESG-6321 1.0 * B L

Goal. Designation as a Senior Instructor (SI).

Requirement. Complete the following:
1. Be recommended for SI designation by a WTI.
2. METOC Marines attached to an air station may be designated as SI by another METOC SI due to the unique nature of the station METOC training curriculum.
3. The commanding officer will designate the SI in writing.
4. Designation is not effective until appropriate entries are made in MSHARP, required administration is completed and the signed letter filed in IPR.

Performance Standard. Complete the requirement items.

Prerequisite. 5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit CMMR
2. MAWTS-1 C3 Course Catalog

DESG-6322 1.0 * B L

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

Requirement. Be certified by MAWTS-1 as a WTI, designated by the commanding officer in writing, appropriate entry made in M-SHARP and a letter filed in the IPR.

Performance Standard. Complete the requirement items.

Prerequisite. 6000

Ordnance. None

Range. None

External Syllabus Support. None

Reference.
1. Applicable unit CMMR
2. MAWTS-1 C3 Course Catalog

4.15 MISSION ESSENTIAL TASK (MET) PHASE (7000)

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

4.15.2 General

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

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

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

PAR NO.	STAGE NAME
4.15.3	CONDITION (COND)

4.15.3 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-7000 80.0 545 B,R,M E L/S

Goal. Conduct Meteorology and Oceanography (METOC) Support.

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

1. Conduct Mission Analysis.
2. Review Operational Planning Documents.
3. Identify required support personnel.
4. Identify Administrative (ADCON) and Tactical Control (TACON).
5. Identify equipment requirements.
6. Conduct a Recon, Selection, and Occupation of Position (RSOP).
7. Identify, create, and finalize administrative documents supporting

the operation.
8. Coordinate with external agencies.
9. Conduct embarkation, and retrograde of personnel and equipment.
10. Maintain accountability of personnel.
11. Conduct METOC support operations.
12. Conduct crew evaluations.
13. Compile After-Action items.

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

Instructor. WTI

Prerequisite. (3) Intel CMMR METOC crews

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. Representatives from the S-1, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7, METOC Operations
3. Unit SOP

COND-7001 80.0 545 B,R,M E L/S

Goal. Conduct METOC Support Team (MST) Services.

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 MST during day or night conditions to include the following:

1. Conduct Problem Framing.
2. Review Operational Planning Documents.
3. Identify personnel and equipment requirements.
4. Conduct an RSOP (as required).
5. Coordinate with external agencies.
6. Identify, create and finalize administrative documents supporting the operations.
7. Brief supported personnel (as required).
8. Inspect MST personnel and equipment to be deployed.
9. Coordinate arrival into the landing area appropriate to the plan.
10. Maintain accountability of personnel.
11. Upon arrival at a site, take a weather observation to establish LZ heading.
12. Within one hour of arrival at the site, setup appropriate weather sensing equipment, establishing winds temperature, dewpoint and pressure capability.
13. Within 1.5 hours of arrival at the site, establish appropriate enhanced weather sensing equipment (if applicable). Enhancements

include visibility, present weather, ceilometer and lightening detector.
14. Provide timely coordination with refueling and/or arming personnel for warnings, watches and advisories.
15. As appropriate to the plan, retrograde from the landing zone with the last available transportation.
16. Conduct crew evaluations.
17. Compile After-Action items.

Performance Standard. Perform the requirement items listed and provide METOC analysis operations during a real world operation or training simulation.

Instructor. WTI

Prerequisite. (2) CMMR METOC crew.

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Squadron SOP

COND-7100 80 545 B,R,M E L/S

Goal. Provide Meteorological Services.

Requirement. Given the references, a Table of Equipment (T/E) and/or Equipment Density List (EDL), Commander's guidance, provide meteorological services to include the following:

1. Identify required support personnel.
2. Identify required equipment.
3. Identify, create, and finalize administrative documents supporting airfield operations.
4. Coordinate with external agencies.
5. Provide augmentation of the Automated Surface Observation System (ASOS).
6. Provide meteorological services.
8. Conduct watch turnover briefs to maintain environmental situational awareness.
7. Conduct crew evaluations.

Performance Standard. Perform the requirement items listed and provide meteorological services to airfield operations.

Instructor. WTI

Prerequisite. (4) CMMR METOC crews

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. Airfield Operations Officer and representatives from the S-1, S-2, S-3, S-4, S-6. Live execution will require specific T/M/S aviation assets or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Unit SOP

COND-7200 80.0 545 B,R,M E L/S

Goal. Provide Meteorological/Oceanographic (METOC) Services.

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, provide meteorological services to include the following:

1. Conduct Mission Analysis.
2. Review Operational Planning Documents.
3. Identify required support personnel.
4. Identify Administrative (ADCON) and Tactical Control (TACON).
5. Identify equipment requirements.
6. Conduct an RSOP.
7. Identify, create, and finalize administrative documents supporting the operation to include input to the Annexes H, B, and K.
8. Coordinate with external agencies to include communications, heavy equipment, supply, utilities, and Electronic Key Management System (EKMS) personnel.
9. Conduct embarkation, and retrograde of personnel and equipment.
10. Maintain accountability of personnel.
11. Establish appropriate level II security measures.
12. Within 1 hour of arrival at the site, setup the AN/TMQ-56's Local Sensor Subsystem (LSS), the Meteorological Satellite Subsystem (MSS), and take surface observation.
13. Within 3 hours of arrival at the site, setup the AN/TMQ-56's Meteorological Radar Subsystem (MRS), Upper Air Subsystem (UAS), Processing Subsystem (PCS) and the Communication Subsystem (CMS). In addition to the above listed items.
14. Provide METOC services as outlined in the Annex H.
15. Conduct corrective and preventive maintenance as mandated.
16. Conduct crew evaluations.
17. Compile After-Action items.

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

Instructor. WTI

Prerequisite. (4) CMMR METOC

Ordnance. None

Range. Range space capable of supporting METOC equipment and weather balloon launch.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Unit SOP

COND-7201 80.0 545 B,R,M E L/S

Goal. Conduct METOC Support Team (MST) Services.

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 MST during day or night conditions to include the following:

1. Conduct Problem Framing.
2. Review Operational Planning Documents.
3. Identify personnel and equipment requirements.
4. Conduct an RSOP (as required).
5. Coordinate with external agencies.
6. Identify, create and finalize administrative documents supporting the operations.
7. Brief supported personnel (as required).
8. Inspect MST personnel and equipment to be deployed.
9. Coordinate arrival into the landing area appropriate to the plan.
10. Maintain accountability of personnel.
11. Upon arrival at a site, take a weather observation to establish LZ heading.
12. Within one hour of arrival at the site, setup appropriate weather sensing equipment, establishing winds temperature, dewpoint and pressure capability.
13. Within 1.5 hours of arrival at the site, establish appropriate enhanced weather sensing equipment (if applicable). Enhancements include visibility, present weather, ceilometer and lightening detector.
14. Provide timely coordination with refueling and/or arming personnel for warnings, watches and advisories.
15. As appropriate to the plan, retrograde from the landing zone with the last available transportation.
16. Conduct crew evaluations.
17. Compile After-Action items.

Performance Standard. Perform the requirement items listed and provide METOC analysis operations during a real world operation or training

simulation.

Instructor. WTI

Prerequisite. (2) CMMR METOC crew.

Ordnance. None

Range. Range space capable of supporting METOC equipment.

External Syllabus Support. 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 or a specific unit to be supported.

Reference.
1. JP 3-59
2. MCWP 3-35.7
3. Squadron SOP

4.16 AVIATION CAREER PROGRESSION MODEL (8000).

STAGE	TRNG CODE	T&R DESCRIPTION		ACAD TIME	TO BE COMPLETED DURING
ACPM	8000	**MACCS**		1	2000
ACPM	8001	MARINE AIR COMMAND AND CONTROL SYSTEM		4	2000
ACPM	8002	TACTICAL AIR COMMAND CENTER (TACC)		4	2000
ACPM	8003	DIRECT AIR SUPPORT CENTER (DASC)		4	2000
ACPM	8004	TACTICAL AIR OPERATIONS CENTER (TAOC)		4	2000
ACPM	8005	MARINE AIR TRAFFIC CONTROL (MATC)		4	2000
ACPM	8006	LOW ALTITUDE AIR DEFENSE (LAAD)		4	2000
ACPM	8007	MARINE UNMANNED AERIAL VEHICLE SQUADRON (VMU)		4	2000
ACPM	8008	MARINE WING COMMUNICATION SQUADRON (MWCS)		4	2000
ACPM	8020	**ACE**		1	2000
ACPM	8021	AVIATION OPERATIONS		4	2000
ACPM	8022	CONTROL OF AIRCRAFT AND MISSILES		4	2000
ACPM	8023	OFFENSIVE AIR SUPPORT (OAS)		4	2000
ACPM	8024	ASSAULT SUPPORT		4	2000
ACPM	8025	AIR RECONNAISSANCE		4	2000
ACPM	8026	ELECTRONIC WARFARE		4	2000
ACPM	8027	ANTI-AIR WARFARE		4	2000
ACPM	8028	AVIATION GROUND SUPPORT		4	2000
ACPM	8040	**THREAT**		1	3000
ACPM	8041	SURFACE TO AIR THREAT TO THE MAGTF		4	3000
ACPM	8042	FIXED WING THREAT TO THE MAGTF		4	3000
ACPM	8043	ROTARY WING THREAT TO THE MAGTF		4	3000
ACPM	8044	MISSILE AND UAS THREAT TO THE MAGTF		4	3000
ACPM	8045	RADIO ELECTRONIC COMBAT THREAT TO THE MAGTF		4	3000
ACPM	8060	**MAGTF**		1	3000
ACPM	8061	GROUND COMBAT OPERATIONS		4	3000
ACPM	8062	FIRE SUPPORT COORDINATION IN THE GCE		4	3000

ACPM	8063	MAGTF COMMAND AND CONTROL		4	3000
ACPM	8064	MAGTF COMMUNICATIONS		4	3000
ACPM	8065	PHASING CONTROL ASHORE		4	3000
ACPM	8066	INFORMATION MANAGEMENT		4	3000
ACPM	8067	UAS SUPPORT TO THE MAGTF		4	3000
ACPM	8080	**JOINT AIR OPERATIONS**		1	3000
ACPM	8081	COMMAND AND CONTROL OF JOINT AIR OPERATIONS		4	3000
ACPM	8082	THEATER AIR CROUND SYSTEM (TAGS)		4	3000
ACPM	8083	JOINT FIRE SUPPORT		4	3000
ACPM	8084	CLOSE AIR SUPPORT		4	3000
ACPM	8085	JOINT TARGETING		4	3000
ACPM	8086	NORTH ATLANTIC TREATY ORGANIZATION (NATO)		4	3000
ACPM	8087	JOINT AIRSPACE CONTROL		4	3000
ACPM	8088	COUNTERING AIR AND MISSILE THREATS		4	3000
TOTAL ACPM STAGE			41	149	

4.17 T&R ATTAIN AND MAINTAIN TABLES.

METOC MOS 6842											
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		
Complete 'Aerographer's Mate Third Class METOC Training Manual (AG3)' Module.	ACAD	2000	*	ACAD	2000						-
Complete 'Skew-T Mastery' Module.	ACAD	2001	*	ACAD	2001					2000	-
Complete 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module.	ACAD	2002	*	ACAD	2002					2000	-
Complete 'Aerographer's Mate Second Class (AG2) Vol I METOC Training Manual' Module.	ACAD	2003	*	ACAD	2003					2000	-
Complete 'Aerographer's Mate Second (AG2) Class Vol II METOC Training Manual' Module.	ACAD	2004	*	ACAD	2004					2000, 2003	-
Complete 'Forecasting Radiation Fog' Module.	ACAD	2005	*	ACAD	2005					2000, 2003, 2004	-
Complete 'Dynamically Forced Fog' Module.	ACAD	2006	*	ACAD	2006					2000, 2003, 2004	-
Complete 'Local Influences on Fog and Low Stratus' Module.	ACAD	2007	*	ACAD	2007					2000, 2003, 2004	-
Complete 'Thermally-Forced Circulation I: Sea Breezes' Module.	ACAD	2008	*	ACAD	2008					2000, 2003, 2004	-
Complete 'Thermally-Forced Circulation II: Mountain Valley Winds' Module.	ACAD	2009	*	ACAD	2009					2000, 2003, 2004, 2008	-
Complete 'Cold Air Damming' Module.	ACAD	2010	*	ACAD	2010					2000, 2003, 2004	-
Complete 'Coastally Trapped Wind Reversals' Module.	ACAD	2011	*	ACAD	2011					2000, 2003, 2004	-
Complete 'Gap Winds' Module.	ACAD	2012	*	ACAD	2012					2000, 2003, 2004	-
Complete 'Flow Interaction with Topography' Module.	ACAD	2013	*	ACAD	2013					2000, 2003, 2004	-
Complete 'Mountain Waves and Downslope Winds' Module.	ACAD	2014	*	ACAD	2014					2000, 2003, 2004	-
Complete 'Atmospheric Dust' Module.	ACAD	2015	*	ACAD	2015					2000, 2003, 2004	-

Complete 'Forecasting Dust Storms Version 2' Module.	ACAD	2016	*	ACAD	2016					2000, 2003, 2004, 2015	-
Complete 'Low-Level Coastal Jets' Module.	ACAD	2017	*	ACAD	2017					2000, 2003, 2004	-
Complete 'Jet Streak Circulations' Module.	ACAD	2018	*	ACAD	2018					2000, 2003, 2004	-
Complete 'Vorticity Maxima and Comma Patterns' Module.	ACAD	2019	*	ACAD	2019					2000, 2003, 2004	-
Complete 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module.	ACAD	2020	*	ACAD	2020					2000, 2003, 2004	-
Complete 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module.	ACAD	2021	*	ACAD	2021					2000, 2003, 2004	-
Complete 'Principles of Convection I: Buoyancy and CAPE' Module.	ACAD	2022	*	ACAD	2022					2000, 2003, 2004	-
Complete 'Principles of Convection II: Using Hodographs' Module.	ACAD	2023	*	ACAD	2023					2000, 2003, 2004, 2022	-
Complete 'Principles of Convection III: Shear and Convective Storms' Module.	ACAD	2024	*	ACAD	2024					2000, 2003, 2004, 2022, 2023	-
Complete 'Lectures on Radar Applications in Mesoscale Meteorology' Module.	ACAD	2025	*	ACAD	2025					2000, 2003, 2004	-
Complete 'Landfalling Fronts and Cyclones' Module.	ACAD	2026	*	ACAD	2026					2000, 2003, 2004	-
Complete 'How Mesoscale Models Work' Module.	ACAD	2027	*	ACAD	2027					2000, 2003, 2004	-
Complete 'Definition of the Mesoscale' Module.	ACAD	2028	*	ACAD	2028					2000, 2003, 2004	-
Complete 'Introduction to Ensemble Prediction' Module.	ACAD	2029	*	ACAD	2029					2000, 2003, 2004	-
Complete 'Ten Common NWP Misconceptions' Module.	ACAD	2030	*	ACAD	2030					2000, 2003, 2004	-
Complete 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module	ACAD	2031	*	ACAD	2031					2000, 2003, 2004	-
Complete 'Mesoscale Banded Precipitation' Module.	ACAD	2032	*	ACAD	2032					2000, 2003, 2004	-
Complete 'Intelligent Use of Model-Derived Products –Version 2' Module.	ACAD	2033	*	ACAD	2033					2000, 2003, 2004	-
Complete 'Effective Use of NWP in the Forecast Process: Introduction' Module	ACAD	2034	*	ACAD	2034					2000, 2003, 2004	-

Complete 'Influence of Model Physics on NWP Forecasts-Version 2' Module.	ACAD	2035	*	ACAD	2035					2000, 2003, 2004	-
Complete 'Introduction to Climatology' Module.	ACAD	2036	*	ACAD	2036					2000, 2003, 2004	-
Complete 'Isentropic Analysis' Module.	ACAD	2037	*	ACAD	2037					2000, 2003, 2004	-
Complete 'PBL in Complex Terrain - Part 1' Module.	ACAD	2038	*	ACAD	2038					2000, 2003, 2004	-
Complete 'PBL in Complex Terrain – Part 2' Module.	ACAD	2039	*	ACAD	2039					2000, 2003, 2004, 2038	-
Complete 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module.	ACAD	2040	*	ACAD	2040					2000, 2003, 2004	-
Complete 'Forecasting Aviation Icing: Icing Type and Severity' Module.	ACAD	2041	*	ACAD	2041					2000, 2003, 2004	-
Complete 'Writing Effective TAFS' Module.	ACAD	2042	*	ACAD	2042					2000, 2003, 2004	-
Complete 'Writing TAFS for Convective Weather' Module.	ACAD	2043	*	ACAD	2043					2000, 2003, 2004, 2042	-
Complete 'Writing TAFS for Winds and LLWS' Module.	ACAD	2044	*	ACAD	2044					2000, 2003, 2004, 2042, 2043	-
Complete 'Writing TAFs for Ceiling and Visibility' Module.	ACAD	2045	*	ACAD	2045					2000, 2003, 2004, 2042	-
Complete 'Introduction to Distributed Hydrologic Modeling' Module.	ACAD	2046	*	ACAD	2046					2000, 2003, 2004	-
Complete 'Understanding the Hydrologic Cycle' Module.	ACAD	2047	*	ACAD	2047					2000, 2003, 2004	-
Complete 'Introduction to Ocean Tides' Module.	ACAD	2048	*	ACAD	2048					2000, 2003, 2004	-
Complete 'Rip Currents: Forecasting' Module.	ACAD	2049	*	ACAD	2049					2000, 2003, 2004	-
Complete 'Introduction to Ocean Currents' Module.	ACAD	2050	*	ACAD	2050					2000, 2003, 2004	-
Complete 'Introduction to the Verification of Hydrologic Forecasts' Module.	ACAD	2051	*	ACAD	2051					2000, 2003, 2004, 2046, 2047	-
Complete 'Unit Hydrograph Theory' Module.	ACAD	2052	*	ACAD	2052					2000, 2003, 2004	-
Complete 'Space Weather Basics' Module.	ACAD	2053	*	ACAD	2053					2000, 2003, 2004	-
Complete 'Weather Radar Fundamentals' Module.	ACAD	2054	*	ACAD	2054					2000, 2003, 2004, 2025	-

Complete 'Basics of Visisbile and Infrared Remote Sensing' Module.	ACAD	2055	*	ACAD	2055					2000	-
Complete 'Microwave Remote Sensing: Clouds, Precipitation, and Water Vapor' Module.	ACAD	2056	*	ACAD	2056					2003, 2004, 2055	-
Complete 'MCI 0118K Spelling' course.	ACAD	2057	*	ACAD	2057						-
Complete 'MCI 0119H Punctuation' course.	ACAD	2058	*	ACAD	2058						-
Complete 'MCI 0120 Basic Grammar and Composition' course.	ACAD	2059	*	ACAD	2059						-
Complete 'Operational Use of Wave Watch III' Module.	ACAD	2060	*	ACAD	2060					2000, 2003, 2004	-
Complete 'Introduction to Ocean Models' Module.	ACAD	2061	*	ACAD	2061					2000, 2003, 2004	-
Complete 'MCI 045D The Logistics/Embarkation Specialist' course.	ACAD	2062	*	ACAD	2062						-
Complete 'MCI 2525B Communications Security' course.	ACAD	2063	*	ACAD	2063						-
Complete 'Topics in Tropical Meteorology' Module.	ACAD	2070	*	ACAD	2070					2000, 2003, 2004	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module.	ACAD	2071	*	ACAD	2071					2000, 2003, 2004, 2070	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' Module.	ACAD	2072	*	ACAD	2072					2000, 2003, 2004, 2070, 2071	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 3: Global Circulation' Module.	ACAD	2073	*	ACAD	2073					2000, 2003, 2004, 2070, 2071, 2072	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module.	ACAD	2074	*	ACAD	2074					2000, 2003, 2004, 2070, 2071, 2072, 2073	-
Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture and Precipiation' Module.	ACAD	2075	*	ACAD	2075					2000, 2003, 2004, 2070, 2071, 2072, 2073, 2074	-
Complete 'Conceptual Models of Tropical Waves' Module.	ACAD	2076	*	ACAD	2076					2000, 2003, 2004	-
Complete 'Polar Satellite Products for the Operational Forecaster: Microwave Analysis of Tropical	ACAD	2077	*	ACAD	2077					2000, 2003, 2004	-

Cyclones' Module.											
Complete 'Wave Types and Characteristics' Module.	ACAD	2078	*	ACAD	2078					2000, 2003, 2004	-
Complete 'Rip Currents: Nearshore Fundamentals' Module.	ACAD	2079	*	ACAD	2079					2000, 2003, 2004, 2078	-
Complete 'Shallow-Water Waves' Module.	ACAD	2080	*	ACAD	2080					2000, 2003, 2004	-
Complete 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module.	ACAD	2081	*	ACAD	2081					2000, 2003, 2004	-
Complete 'Systems Approach to Training (SAT)' course.	ACAD	2082	*	ACAD	2082						-
Complete 'MCI 0131K Correspondence Procedures' course.	ACAD	2083	*	ACAD	2083						-
Complete 'Target Acquisitions Weapons Software (TAWS) Primer' resident course.	ACAD	2090	*	ACAD	2090						-
Complete 'Advanced Refractive Effects Prediction System (AREPS) Primer' resident course.	ACAD	2091	*	ACAD	2091						-
State and discuss the elements of a METAR surface observation.	MSO	2200	*	MSO	2200					2000, 2001, 2002, 2055, 2056	-
State the criteria for a SPECI surface observation.	MSO	2201	*	MSO	2201					2000, 2001, 2002, 2055, 2056, 2200	-
Compute meteorological values.	MSO	2202	*	MSO	2202					2000, 2001, 2002, 2055, 2056, 2200	-
Decode surface/ship synoptic observations.	MSO	2203	365	MSO	2203	MSO	2203	MSO	2203	2000, 2001, 2002, 2200, 2201	-
State and discuss the elements of a Terminal Aerodrome Forecast (TAF).	MSO	2204	*	MSO	2204					2000	-
Decode a Terminal Aerodrome Forecast (TAF).	MSO	2205	365	MSO	2205	MSO	2205	MSO	2205	2000, 2204	-
Define the criteria for setting weather warnings, watches, and advisories.	MSO	2206	*	MSO	2206					2000	-
Decode upper air messages.	UAS	2250	365	UAS	2250	UAS	2250	UAS	2250	2000, 2001	-
Analyze a Skew-T Log P diagram.	UAS	2251	365	UAS	2251	UAS	2251	UAS	2251	2001, 2250	-
Identify the components of an upper-air sensor and upper-air sensing equipment.	UAS	2252	*	UAS	2252					2001	-

Define and state the difference between civil, nautical, and astronomical twilight.	ATD	2300	*	ATD	2300					2000	-
State the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.	ATD	2301	*	ATD	2301					2000, 2300	-
Identify and define local area policies and procedures.	FAM	2350	*	FAM	2350					-	-
Operate handheld meteorological devices.	EQPT	2400	180	EQPT	2400	EQPT	2400	EQPT	2400	2000	-
Operate a handheld GPS device.	EQPT	2401	1460	EQPT	2401	EQPT	2401	EQPT	2401	-	-
Operate the Meteorological Radar Subsystem (MRS).	EQPT	2402	365	EQPT	2402	EQPT	2402	EQPT	2402	-	-
Operate the Meteorological Satellite Subsystem (MSS).	EQPT	2403	365	EQPT	2403	EQPT	2403	EQPT	2403	-	-
Operate the Communications Subsystem (CSS).	EQPT	2404	365	EQPT	2404	EQPT	2404	EQPT	2404	-	-
Operate the Local Subsystem (LSS).	EQPT	2405	365	EQPT	2405	EQPT	2405	EQPT	2405	-	-
Operate the Remote Subsystem (RSS).	EQPT	2406	365	EQPT	2406	EQPT	2406	EQPT	2406	-	-
Operate the Upper Air Subsystem (UAS).	EQPT	2407	365	EQPT	2407	EQPT	2407	EQPT	2407	2252	-
Describe principles of atmospheric physics.	AMS	2500	*	AMS	2500					2003, 2004	-
Describe principles of atmospheric dynamics.	AMS	2501	*	AMS	2501					2003, 2004, 2500	-
Describe atmospheric fundamentals.	AMS	2502	*	AMS	2502					2003, 2004, 2017, 2018, 2019, 2020, 2026, 2500, 2501	-
State the use of graphical METOC products.	AMS	2503	*	AMS	2503					2003, 2004, 2027, 2028, 2029, 2030, 2031, 2033, 2055, 2056, 2500, 2501, 2502	-
Initialize and verify meteorological model output.	MDA	2550	*	MDA	2550					2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503	-
Analyze and interpret a thickness chart or thickness model.	MDA	2551	365	MDA	2551	MDA	2551	MDA	2551	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550	-
Analyze and interpret a vorticity chart or vorticity model.	MDA	2552	365	MDA	2552	MDA	2552	MDA	2552	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550	-
Analyze and interpret upper atmospheric weather charts.	MDA	2553	365	MDA	2553	MDA	2553	MDA	2553	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-
Analyze and interpret a surface weather chart.	MDA	2554	365	MDA	2554	MDA	2554	MDA	2554	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-

Analyze meteorological features on satellite imagery.	MDA	2555	365	MDA	2555	MDA	2555	MDA	2555	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503	-
Analyze meteorological features on radar products.	MDA	2556	365	MDA	2556	MDA	2556	MDA	2556	2003, 2004, 2022, 2023, 2024, 2025, 2027, 2028, 2054, 2500, 2501, 2502, 2503	-
Forecast macro/synoptic scale features.	METF	2600	*	METF	2600					2003, 2004, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-
Develop synoptic scale forecast using prognosis techniques.	METF	2601	365	METF	2601	METF	2601	METF	2601	2003, 2004, 2019, 2020, 2055, 2056, 2551, 2552, 2553, 2554, 2600	-
Forecast local area (mesoscale/microscale) meteorological elements and phenomenon.	METF	2602	*	METF	2602					2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-
Forecast severe weather.	METF	2603	*	METF	2603					2003, 2004, 2022, 2023, 2024, 2025, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2600	-
Brief synoptic chart set.	MPB	2650	*	MPB	2650	MPB	2650			2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2600, 2601, 2602	-
Demonstrate proficiency in completing a flight weather briefing (DD 175-1).	MPB	2651	365	MPB	2651	MPB	2651	MPB	2651	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-
Understand the fundamentals of Communications.	COMM	2700	*	COMM	2700					-	-
Operate HF man-pack communications equipment.	COMM	2701	365	COMM	2701	COMM	2701	COMM	2701	2700	-
Operate intra-team communications equipment.	COMM	2702	365	COMM	2702	COMM	2702	COMM	2702	2700	-
Operate UHF/VHF/SATCOM man-pack communications equipment.	COMM	2703	365	COMM	2703	COMM	2703	COMM	2703	2700	-
Describe proper handling and storage of classified materials.	COMM	2704	*	COMM	2704	COMM	2704			-	-
Plan physical security for classified areas.	COMM	2705	*	COMM	2705	COMM	2705			-	-
Extract key material information from EKMS callout.	COMM	2706	*	COMM	2706	COMM	2706			2704	-
Operate a common fill device (CFD).	COMM	2707	365	COMM	2707	COMM	2707	COMM	2707	2704, 2705, 2706	-
Demonstrate an understanding of METOC's role in the Marine Corps Planning Process (MCPP).	MDN	2750	*	MDN	2750					-	-
Draft a Universal Needs Statement (UNS).	ADM	2808	*	ADM	2808					2105, 2106, 2806	-

Draft an Urgent Operational Needs (UONs).	ADM	2809	*	ADM	2809					2105, 2106, 2806, 2808	-
Describe the Marine Corps Action Tracking System (MCATS).	ADM	2810	*	ADM	2810					-	-
State the elements of a surf observation.	LFA	2900	*	LFA	2900					2000, 2003, 2004, 3151	-
State the physical METOC effect on the land domain and how they affect operations.	MIA	2950	*	MIA	2950					-	-
State the physical METOC effect on the maritime domain and how they affect operations.	MIA	2951	*	MIA	2951					-	-
State the physical METOC effect on the air domain and how they affect operations.	MIA	2952	*	MIA	2952					-	-
State the physical METOC effect on the space domain and how they affect operations.	MIA	2953	*	MIA	2953					2053, 3007, 3008, 3009, 3010, 3011	-
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		
Complete 'METOC Support for Strike Warfare' resident course.	ACAD	3000	*	ACAD	3000					2090, 2091	-
Complete 'METOC Support for Amphibious Warfare' resident course.	ACAD	3001	*	ACAD	3001					-	-
Complete 'METOC Support for Combat Search and Rescue/ Search and Rescue (CSAR/SAR)' resident course.	ACAD	3002	*	ACAD	3002					-	-
Complete 'Littoral Oceanography' resident course.	ACAD	3003	*	ACAD	3003					-	-
Complete 'Mobile Environmental Team Primer' resident course.	ACAD	3004	*	ACAD	3004					-	-
Complete 'Mobile Environmental Team Trainer' resident course.	ACAD	3005	*	ACAD	3005					3004	-
Complete 'METOC Support for Air Defense, Surface Warfare, and Information Warfare (AD, SW, IW)' resident course.	ACAD	3006	*	ACAD	3006					2091	-
Complete 'Space Weather Impacts on Aviation' module.	ACAD	3007	*	ACAD	3007					2053	-
Complete 'Space Weather - Layers	ACAD	3008	*	ACAD	3008					2053	-

of the Sun' module.											
Complete 'Space Weather – Active Regions' module.	ACAD	3009	*	ACAD	3009					2053	-
Complete 'Solar X-Ray Flares & HF Communications' module.	ACAD	3010	*	ACAD	3010					2053	-
Complete 'Equatorial Scintillation and UHF SATCOM' module.	ACAD	3011	*	ACAD	3011					2053	-
Complete 'Applied Environmental Sciences' (AES) Course.	ACAD	3020	*	ACAD	3020					-	-
Complete 'METOC Impacts Analyst Course (MIAC)' course	ACAD	3021	*	ACAD	3021					3020	-
Complete 'Riverine Analysis and Forecasting Course' resident course.	ACAD	3022	*	ACAD	3022					2046, 2047, 2051	-
Complete 'METOC Support for Chemical, Biological, Radiological, and Nuclear Environment (CBRNE)' resident course.	ACAD	3023	*	ACAD	3023					-	-
Complete 'METOC Support for Naval Special Warfare (NSW)' resident course.	ACAD	3024	*	ACAD	3024					-	-
Complete 'Tactical Forecasting for Naval Special Warfare (NSW)' resident course.	ACAD	3025	*	ACAD	3025					-	-
Complete 'OA Division Tactical Team (OATT) Trainer: Basic' resident course.	ACAD	3026	*	ACAD	3026					-	-
Complete 'OA Division Tactical Team (OATT) Trainer: Intermediate' resident course.	ACAD	3027	*	ACAD	3027					-	-
Complete 'OA Division Tactical Team (OATT) Trainer: Advanced' resident course.	ACAD	3028	*	ACAD	3028					-	-
Conduct a surface meteorological observation.	MSO	3100	365	MSO	3100	MSO	3100	MSO	3100	2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202	-
Conduct a surface meteorological observation.	MSO	3101	365	MSO	3101	MSO	3101	MSO	3101	2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202	-
Encode and disseminate a pilot weather report (PIREP).	MSO	3102	365	MSO	3102	MSO	3102	MSO	3102	2000	-
Produce astronomical data.	ATD	3150	365	ATD	3150	ATD	3150	ATD	3150	2000, 2300, 2301	-
Produce tidal data.	ATD	3151	180	ATD	3151	ATD	3151	ATD	3151	2000, 2003, 2004, 2048	-
Operate the Automated Surface Observing System (ASOS).	EQPT	3200	365	EQPT	3200	EQPT	3200	EQPT	3200	-	-
Operate garrison METOC equipment in order to provide	EQPT	3201	365	EQPT	3201	EQPT	3201	EQPT	3201	-	-

support to base operations.											
Conduct management operations for the meteorological radar system.	EQPT	3202	365	EQPT	3202	EQPT	3202	EQPT	3202	2402	-
Conduct a recon, selection, and occupation of position (RSOP) for METOC equipment.	EQPT	3203	180	EQPT	3203	EQPT	3203	EQPT	3203	-	-
Setup or assist with the setup of the AN/UMK-4(v)4, TESS/NITES.	EQPT	3204	180	EQPT	3204	EQPT	3204	EQPT	3204	-	-
Operate the AN/UMK-4(v)4 TESS/NITES.	EQPT	3205	180	EQPT	3205	EQPT	3205	EQPT	3205	-	-
Pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.	EQPT	3206	180	EQPT	3206	EQPT	3206	EQPT	3206	-	-
Setup surface meteorological sensing systems.	EQPT	3207	365	EQPT	3207	EQPT	3207	EQPT	3207	-	-
Pack the surface meteorological sensing system.	EQPT	3208	365	EQPT	3208	EQPT	3208	EQPT	3208	-	-
Setup the meteorological radar subsystem for integrated operations.	EQPT	3209	365	EQPT	3209	EQPT	3209	EQPT	3209	-	-
Pack the meteorological radar subsystem.	EQPT	3210	365	EQPT	3210	EQPT	3210	EQPT	3210	-	-
Setup the meteorological satellite subsystem.	EQPT	3211	365	EQPT	3211	EQPT	3211	EQPT	3211	-	-
Pack the meteorological satellite subsystem.	EQPT	3212	365	EQPT	3212	EQPT	3212	EQPT	3212	-	-
Setup the meteorological upper air subsystem for integrated operations.	EQPT	3213	365	EQPT	3213	EQPT	3213	EQPT	3213	-	-
Pack the meteorological upper air subsystem.	EQPT	3214	365	EQPT	3214	EQPT	3214	EQPT	3214	-	-
Setup the meteorological communication subsystem.	EQPT	3215	365	EQPT	3215	EQPT	3215	EQPT	3215	-	-
Pack the meteorological communication subsystem.	EQPT	3216	365	EQPT	3216	EQPT	3216	EQPT	3216	-	-
Setup the meteorological product generation and dissemination subsystem.	EQPT	3217	365	EQPT	3217	EQPT	3217	EQPT	3217	-	-
Pack the meteorological product generation and dissemination subsystem.	EQPT	3218	365	EQPT	3218	EQPT	3218	EQPT	3218	-	-

Operate the AN/TMQ-56 METMF(R) NEXGEN.	EQPT	3219	365	EQPT	3219	EQPT	3219	EQPT	3219	2402, 2403, 2404, 2405, 2406, 2407, 3202, 3207, 3209, 3211, 3213, 3215, 3217	-
Produce a Terminal Aerodrome Forecast (TAF).	METF	3250	365	METF	3250	METF	3250	METF	3250	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3300, 3303	-
Produce a limited data forecast.	METF	3251	365	METF	3251	METF	3251	METF	3251	2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-
Produce a flight weather packet.	MPB	3300	365	MPB	3300	MPB	3300	MPB	3300	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056	-
Brief a flight weather briefing (DD 175-1).	MPB	3301	365	MPB	3301	MPB	3301	MPB	3301	2601	-
Produce a 96-hour graphical METOC brief.	MPB	3302	180	MPB	3302	MPB	3302	MPB	3302	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3250	-
Generate and conduct a climatology brief.	MPB	3303	365	MPB	3303	MPB	3303	MPB	3303	2003, 2004, 2036	-

Conduct an aviation strike brief.	MPB	3304	*	MPB	3304	MPB	3304			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Conduct an aviation assault brief.	MPB	3305	*	MPB	3305	MPB	3305			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Conduct an amphibious warfare brief.	MPB	3306	*	MPB	3306	MPB	3306			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Conduct a Search and Rescue (SAR) brief.	MPB	3307	*	MPB	3307	MPB	3307			2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-
Compute Modified Surf Index (MSI).	LFA	3350	180	LFA	3350	LFA	3350	LFA	3350	2900, 3151	-
Create a surf forecast.	LFA	3351	180	LFA	3351	LFA	3351	LFA	3351	2900, 3151, 3350	-
Produce METOC impacts on command, control, and communication (C3) operations.	MIA	3400	365	MIA	3400	MIA	3400	MIA	3400	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-
Produce METOC impacts on MAGTF operations.	MIA	3401	365	MIA	3401	MIA	3401	MIA	3401	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-
Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.	MIA	3402	365	MIA	3402	MIA	3402	MIA	3402	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011, 3401	-
Deploy a METOC section in support of unit operations.	MGT	3450	365	MGT	3450	MGT	3450	MGT	3450	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3500	-
Manage METOC Operations in support of unit exercise or deployment.	MGT	3451	365	MGT	3451	MGT	3451	MGT	3451	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3450, 3500	-
Submit input to annexes of operational orders.	MPC	3500	*	MPC	3500					2057, 2058, 2059	-
Conduct METOC support for Intelligence Operations.	MPC	3505	730	MPC	3505	MPC	3505	MPC	3505	-	-
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	-	-
Complete 'Mediterranean Forecast Course' resident course.	ACAD	4000	*	ACAD	4000					-	-
Complete 'Central Command (CENTCOM) AOR Forecasting' resident course.	ACAD	4001	*	ACAD	4001					-	-

Complete 'METOC Forecasting for COMSEVENTHFLT AOR' resident course.	ACAD	4002	*	ACAD	4002					-	-
Complete 'Lean Six Sigma White Belt' course.	ACAD	4021	*	ACAD	4021					-	-
Complete 'Lean Six Sigma Yellow Belt' course	ACAD	4022	*	ACAD	4022					4021	-
Conduct a surf observation.	LFA	4100	720	LFA	4100	LFA	4100	LFA	4100	2900	-
Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.	MIA	4150	*	MIA	4150	MIA	4150			2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-
Assess METOC impacts on Chemical, Biological, Radiological and Nuclear Environment (CBRNE) defensive operations.	MIA	4152	*	MIA	4152	MIA	4152			2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-
Perform System Administration.	MGT	4254	1095	MGT	4254	MGT	4254	MGT	4254	-	-
Conduct MMT assault landing zone (ALZ) Operations.	MMTM	4300	*	MMTM	4300					-	-
Conduct MMT Helicopter Landing Zone (HLZ) Operations.	MMTM	4301	*	MMTM	4301					-	-
Conduct MMT land navigation operations.	MMTM	4302	*	MMTM	4302	MMTM	4302			-	-
Collect assault zone survey data using equipment organic to the MMT.	MMTM	4303	730	MMTM	4303	MMTM	4303	MMTM	4303	-	-
Perform as a METOC MMT Member during operational planning.	MMTM	4304	1460	MMTM	4304	MMTM	4304	MMTM	4304	-	-
Operate the Dynamic Cone Penetrometer (DCP).	MMTM	4305	*	MMTM	4305	MMTM	4305			-	-
Operate the Laser Range Finder (LRF).	MMTM	4306	*	MMTM	4306	MMTM	4306			-	-

4.18 T&R SYLLABUS MATRIX

METOC ENLISTED 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				
CORE SKILL INTRODUCTION TRAINING (1000 PHASE EVENTS)																			
MOAF	1000	Identify facts about space environment	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1001	Identify facts about the elements of a weather observation.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1002	Relate principles about the Earth and its atmosphere.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1003	Relate principles about atmospheric physics.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1004	Relate principles about atmospheric dynamics.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1005	Relate principles about hemispheric weather features.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1006	Relate principles about continental weather features.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1007	Relate principles about regional weather features.		E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1008	Relate principles about tropical weather features.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1009	Relate principles about the types of meteorological satellite systems.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1010	Relate satellite imagery to meteorological and non-meteorological features or events.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1011	Decode a METAR observation	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1012	Encode/Decode Pilot Reports (PIREPS).	B	E	G	-	-	-	*		0		0		0	-	-	-	-

MOAF	1013	Decode land and ship synoptic data.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1014	Decode a Rawinsonde observation	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1015	Decode a plotted Skew-T/Log-P diagram	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1016	Analyze upper-air and surface charts	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1017	Select effective quality assurance program procedures.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1018	Identify facts about the components of an effective regime forecast process.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1019	Relate principles about macroscale weather analysis techniques.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1020	Analyze macroscale weather features	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1021	Relate principles about synoptic scale weather analysis techniques.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1022	Identify facts about synoptic weather regimes.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1023	Analyze synoptic scale weather features.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1024	Encode METAR observations.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1025	Relate principles about mesoscale weather analysis techniques.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1026	Identify facts about radar theory and radar system components.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1027	Relate principles about weather radar products.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1028	Analyze mesoscale weather features	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1029	Relate principles about macroscale weather forecast techniques.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1030	Identify facts about numerical model	B	E	G	-	-	-	*		0		0		0	-	-	-	-

		processes.																	
MOAF	1031	Relate principles about flight hazard forecast techniques	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1032	Relate principles about synoptic scale weather forecast techniques.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1033	Take a surface observation.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1034	Forecast tropical weather elements.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1035	Forecast macroscale and synoptic scale weather features.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1036	Relate principles about mesoscale and microscale weather forecast techniques.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1037	Relate principles about mesoscale and microscale weather forecast techniques	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1038	Identify meteorological parameters from microscale numerical weather prediction text products.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1039	Forecast mesoscale and microscale weather features	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1040	Prepare a Terminal Aerodome Forecast (TAF).	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1041	Demonstrate proficiency of atmospheric physics.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1042	Describe the dynamic atmospheric principles.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1043	Analyze and interpret a thickness chart.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1044	Analyze and interpret a vorticity chart.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1045	(Re)Analyze and interpret upper atmospheric weather	B	E	G	-	-	-	*		0		0		0	-	-	-	-

		charts.																	
MOAF	1046	Analyze and interpret a surface chart.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1047	Brief synoptic chart set.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
MOAF	1048	Encode/Decode a TAF.	B	E	G	-	-	-	*		0		0		0	-	-	-	-
TOTAL CORE SKILL INTRODUCTION (1000 PHASE EVENTS)										49	0.0	0	0	0	0				
CORE SKILL TRAINING (2000 PHASE EVENTS)																			
ACADEMIC SKILLS (ACAD)																			
ACAD	2000	Complete 'Aerographer's Mate Third Class METOC Training Manual (AG3)' Module.	B	E	G	-	-	-	*		3.0		0		0		-	-	2000
ACAD	2001	Complete 'Skew-T Mastery' Module.	B	E	G	-	-	-	*		3.0		0		0	2000	-	-	2001
ACAD	2002	Complete 'Fog: Its Processes and Impacts to Aviation and Aviation Forecasting' Module.	B	E	G	-	-	-	*		2.0		0		0	2000	-	-	2002
ACAD	2003	Complete 'Aerographer's Mate Second Class (AG2) Vol I METOC Training Manual' Module.	B	E	G	-	-	-	*		10.0		0		0	2000	-	-	2048
ACAD	2004	Complete 'Aerographer's Mate Second (AG2) Class Vol II METOC Training Manual' Module.	B	E	G	-	-	-	*		40.0		0		0	2000, 2003	-	-	2049
ACAD	2005	Complete 'Forecasting Radiation Fog' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2003
ACAD	2006	Complete 'Dynamically Forced Fog' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2004
ACAD	2007	Complete 'Local Influences on Fog and Low Stratus' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2005
ACAD	2008	Complete 'Thermally-Forced Circulation I: Sea Breezes' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2006

ACAD	2009	Complete 'Thermally-Forced Circulation II: Mountain Valley Winds' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2008	-	-	2007
ACAD	2010	Complete 'Cold Air Damming' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2008
ACAD	2011	Complete 'Coastally Trapped Wind Reversals' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2009
ACAD	2012	Complete 'Gap Winds' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2010
ACAD	2013	Complete 'Flow Interaction with Topography' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2011
ACAD	2014	Complete 'Mountain Waves and Downslope Winds' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2012
ACAD	2015	Complete 'Atmospheric Dust' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004	-	-	2013
ACAD	2016	Complete 'Forecasting Dust Storms Version 2' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2015	-	-	2014
ACAD	2017	Complete 'Low-Level Coastal Jets' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2015
ACAD	2018	Complete 'Jet Streak Circulations' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2016
ACAD	2019	Complete 'Vorticity Maxima and Comma Patterns' Module.	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2017
ACAD	2020	Complete 'Dynamic Feature Identification: Vorticity Minima and Anticomma Patterns' Module.	B	E	G	-	-	-	*		0.4		0		0	2000, 2003, 2004	-	-	2018
ACAD	2021	Complete 'Recognition and Impact of Vorticity Maxima and Minima in Satellite Imagery' Module.	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2019
ACAD	2022	Complete 'Principles of Convection I: Buoyancy and CAPE' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2020
ACAD	2023	Complete 'Principles of Convection II: Using Hodographs' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2022	-	-	2021

ACAD	2024	Complete 'Principles of Convection III: Shear and Convective Storms' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2022, 2023	-	-	2022
ACAD	2025	Complete 'Lectures on Radar Applications in Mesoscale Meteorology' Module.	B	E	G	-	-	-	*		8.0		0		0	2000, 2003, 2004	-	-	2023
ACAD	2026	Complete 'Landfalling Fronts and Cyclones' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2024
ACAD	2027	Complete 'How Mesoscale Models Work' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2025
ACAD	2028	Complete 'Definition of the Mesoscale' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2026
ACAD	2029	Complete 'Introduction to Ensemble Prediction' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2027
ACAD	2030	Complete 'Ten Common NWP Misconceptions' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2028
ACAD	2031	Complete 'Mesoscale Convective Systems: Squall Lines and Bow Echoes' Module	B	E	G	-	-	-	*		5.0		0		0	2000, 2003, 2004	-	-	2029
ACAD	2032	Complete 'Mesoscale Banded Precipitation' Module.	B	E	G	-	-	-	*		4.0		0		0	2000, 2003, 2004	-	-	2030
ACAD	2033	Complete 'Intelligent Use of Model-Derived Products –Version 2' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2031
ACAD	2034	Complete 'Effective Use of NWP in the Forecast Process: Introduction' Module	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2032
ACAD	2035	Complete 'Influence of Model Physics on NWP Forecasts-Version 2' Module.	B	E	G	-	-	-	*		1.5		0		0	2000, 2003, 2004	-	-	2041
ACAD	2036	Complete 'Introduction to Climatology' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2042

ACAD	2037	Complete 'Isentropic Analysis' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2043
ACAD	2038	Complete 'PBL in Complex Terrain - Part 1' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2044
ACAD	2039	Complete 'PBL in Complex Terrain – Part 2' Module.	B	E	G	-	-	-	*		1.2		0		0	2000, 2003, 2004, 2038	-	-	2045
ACAD	2040	Complete 'Mesoscale Aspects of Winter Weather Forecasting Topics' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	2046
ACAD	2041	Complete 'Forecasting Aviation Icing: Icing Type and Severity' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2047
ACAD	2042	Complete 'Writing Effective TAFS' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3000
ACAD	2043	Complete 'Writing TAFS for Convective Weather' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2042	-	-	3001
ACAD	2044	Complete 'Writing TAFS for Winds and LLWS' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004, 2042, 2043	-	-	3002
ACAD	2045	Complete 'Writing TAFs for Ceiling and Visibility' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2042	-	-	3003
ACAD	2046	Complete 'Introduction to Distributed Hydrologic Modeling' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	3004
ACAD	2047	Complete 'Understanding the Hydrologic Cycle' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3005
ACAD	2048	Complete 'Introduction to Ocean Tides' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3012
ACAD	2049	Complete 'Rip Currents: Forecasting' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3013
ACAD	2050	Complete 'Introduction to Ocean Currents' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3014

ACAD	2051	Complete 'Introduction to the Verification of Hydrologic Forecasts' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2046, 2047	-	-	3017
ACAD	2052	Complete 'Unit Hydrograph Theory' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3018
ACAD	2053	Complete 'Space Weather Basics' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	
ACAD	2054	Complete 'Weather Radar Fundamentals' Module.		E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004, 2025	-	-	2300
ACAD	2055	Complete 'Basics of Visisbile and Infrared Remote Sensing' Module.	B	E	G	-	-	-	*		2.0		0		0	2000	-	-	
ACAD	2056	Complete 'Microwave Remote Sensing: Clouds, Precipitation, and Water Vapor' Module.	B	E	G	-	-	-	*		2.0		0		0	2003, 2004, 2055	-	-	
ACAD	2057	Complete 'MCI 0118K Spelling' course.	B	E	G	-	-	-	*		10.0		0		0		-	-	
ACAD	2058	Complete 'MCI 0119H Punctuation' course.	B	E	G	-	-	-	*		6.0		0		0		-	-	
ACAD	2059	Complete 'MCI 0120 Basic Grammar and Composition' course.	B	E	G	-	-	-	*		7.0		0		0		-	-	
ACAD	2060	Complete 'Operational Use of Wave Watch III' Module.	B	E	G	-	-	-	*		1.5		0		0	2000, 2003, 2004	-	-	3006
ACAD	2061	Complete 'Introduction to Ocean Models' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	3009
ACAD	2062	Complete 'MCI 045D The Logistics/Embarkation Specialist' course.	B	E	G	-	-	-	*		12.0		0		0		-	-	
ACAD	2063	Complete 'MCI 2525B Communications Security' course.	B	E	G	-	-	-	*		4.0		0		0		-	-	
ACAD	2070	Complete 'Topics in Tropical Meteorology' Module.	B	E	G	-	-	-	*		0.3		0		0	2000, 2003, 2004	-	-	2033

ACAD	2071	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 1: Introduction' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2070	-	-	2034
ACAD	2072	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 2: Tropical Remote Sensing Applications' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2070, 2071	-	-	2035
ACAD	2073	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 3: Global Circulation' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2070, 2071, 2072	-	-	2036
ACAD	2074	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 4: Tropical Variability' Module.	B	E	G	-	-	-	*		3.0		0		0	2000, 2003, 2004, 2070, 2071, 2072, 2073	-	-	2037
ACAD	2075	Complete 'Introduction to Tropical Meteorology, 2nd Edition, Chapter 5: The Distribution of Moisture and Precipiation' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004, 2070, 2071, 2072, 2073, 2074	-	-	2038
ACAD	2076	Complete 'Conceptual Models of Tropical Waves' Module.	B	E	G	-	-	-	*		0.5		0		0	2000, 2003, 2004	-	-	2039
ACAD	2077	Complete 'Polar Satellite Products for the Operational Forecaster: Microwave Analysis of Tropical Cyclones' Module.	B	E	G	-	-	-	*		2.0		0		0	2000, 2003, 2004	-	-	2040
ACAD	2078	Complete 'Wave Types and Characteristics' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004	-	-	3007
ACAD	2079	Complete 'Rip Currents: Nearshore Fundamentals' Module.	B	E	G	-	-	-	*		1.0		0		0	2000, 2003, 2004, 2078	-	-	3008

ACAD	2080	Complete 'Shallow-Water Waves' Module.	B	E	G	-	-	-	*		1.5		0		0	2000, 2003, 2004	-	-	3010
ACAD	2081	Complete 'Remote Sensing of Ocean Wind Speed and Direction: An Introduction to Scatterometry' Module.	B	E	G	-	-	-	*		0.6		0		0	2000, 2003, 2004	-	-	3011
ACAD	2082	Complete 'Systems Approach to Training (SAT)' course.	B	E	G	-	-	-	*		7.0		0		0		-	-	
ACAD	2083	Complete 'MCI 0131K Correspondence Procedures' course.	B	E	G	-	-	-	*		7.0		0		0		-	-	
ACAD	2090	Complete 'Target Acquisitions Weapons Software (TAWS) Primer' resident course.	B	E	G	-	-	-	*		8.0		0		0		-	-	4003
ACAD	2091	Complete 'Advanced Refractive Effects Prediction System (AREPS) Primer' resident course.	B	E	G	-	-	-	*		16.0		0		0		-	-	4004
TOTAL ACADEMIC SKILLS STAGE (ACAD)										80	254.0	0	0	0	0				
METEOROLOGICAL SURFACE OBSERVATIONS (MSO) STAGE																			
MSO	2200	State and discuss the elements of a METAR surface observation.	B	E	G	-	-	-	*		2.0		0		0	2000, 2001, 2002, 2055, 2056	-	-	2400
MSO	2201	State the criteria for a SPECI surface observation.	B	E	G	-	-	-	*		1.0		0		0	2000, 2001, 2002, 2055, 2056, 2200	-	-	-
MSO	2202	Compute meteorological values.	B	E	L	-	-	-	*		0		0		2.0	2000, 2001, 2002, 2055, 2056, 2200	-	-	2401
MSO	2203	Decode surface/ship synoptic observations.	B,R,M	E	L	-	-	-	365		0		0		1.0	2000, 2001, 2002, 2200, 2201	-	-	-
MSO	2204	State and discuss the elements of a Terminal Aerodrome Forecast (TAF).	B	E	G	-	-	-	*		2.0		0		0	2000	-	-	-
MSO	2205	Decode a Terminal Aerodrome Forecast (TAF).	B,R,M	E	L/S	-	-	-	365		0		0		0.5	2000, 2204	-	-	-
MSO	2206	Define the criteria for setting weather	B	E	G	-	-	-	*		1.0		0		0	2000	-	-	2900

		warnings, watches, and advisories.																	
TOTAL METEOROLOGICAL SURFACE OBSERVATIONS (MSO) STAGE										4	6.0	0	0.0	3	3.5				
UPPER ATMOSPHERIC SENSING (UAS) STAGE																			
UAS	2250	Decode upper air messages.	B,R,M	E	L	-	-	-	365		0		0		1.0	2000, 2001	-	-	-
UAS	2251	Analyze a Skew-T Log P diagram.	B,R,M	E	L/S	-	-	-	365		0		0		1.0	2001, 2250	-	-	2502, 2503, 2504
UAS	2252	Identify the components of an upper-air sensor and upper-air sensing equipment.	B	E	G	-	-	-	*		2.0		0		0	2001	-	-	2500
TOTAL UPPER ATMOSPHERIC SENSING (UAS) STAGE										1	2.0	0	0.0	2	2.0				
ASTRONOMICAL/TIDAL DATA (ATD) STAGE																			
ATD	2300	Define and state the difference between civil, nautical, and astronomical twilight.	B	E	G	-	-	-	*		1.0		0		0	2000	-	-	-
ATD	2301	State the relationship between lunar illumination, moon rise, moon set, low light level, and high light level.	B	-	G	-	-	-	*		1.0		0		0	2000, 2300	-	-	-
TOTAL ASTRONOMICAL/TIDAL DATA (ATD) STAGE										2	2.0	0	0.0	0	0.0				
FAMILIARIZATION (FAM) STAGE																			
FAM	2350	Identify and define local area policies and procedures.	B	E	G	-	-	-	*		2.0		0		0	-	-	-	3601
TOTAL FAMILIARIZATION (FAM) STAGE										1	2.0	0	0.0	0	0.0				
EQUIPMENT (EQPT) STAGE																			
EQPT	2400	Operate handheld meteorological devices.	B,R,M	E	L	-	-	-	180		0		0		3.0	2000	-	-	3400
EQPT	2401	Operate a handheld GPS device.	B,R,M	E	L	-	-	-	1460		0		0		2.0	-	-	-	-
EQPT	2402	Operate the Meteorological Radar Subsystem (MRS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-

EQPT	2403	Operate the Meteorological Satellite Subsystem (MSS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	2404	Operate the Communications Subsystem (CSS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	2405	Operate the Local Subsystem (LSS).	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	2406	Operate the Remote Subsystem (RSS).	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	2407	Operate the Upper Air Subsystem (UAS).	B,R,M	E	L	-	-	-	365		0		0		1.0	2252	-	-	-
TOTAL EQUIPMENT (EQPT) STAGE										0	0.0	0	0.0	8	15.0				
APPLIED METEOROLOGICAL SCIENCE (AMS) STAGE																			
AMS	2500	Describe principles of atmospheric physics.	B	E	G	-	-	-	*		15.0		0		0	2003, 2004	-	-	2100
AMS	2501	Describe principles of atmospheric dynamics.	B	E	G	-	-	-	*		15.0		0		0	2003, 2004, 2500	-	-	2101
AMS	2502	Describe atmospheric fundamentals.	B	E	G	-	-	-	*		5.0		0		0	2003, 2004, 2017, 2018, 2019, 2020, 2026, 2500, 2501	-	-	2102
AMS	2503	State the use of graphical METOC products.	B	E	L/S	-	-	-	*		0		0		20.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2033, 2055, 2056, 2500, 2501, 2502	-	-	2104
TOTAL APPLIED METEOROLOGICAL SCIENCE (AMS) STAGE										3	35.0	0	0.0	1	20.0				
METOC DATA ANALYSIS (MDA) STAGE																			
MDA	2550	Initialize and verify meteorological model output.	B	E	L/S	-	-	-	*		0		0		2.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503	-	-	2103
MDA	2551	Analyze and interpret a thickness chart or thickness model.	B,R,M	E	L	-	-	-	365		0		0		1.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550	-	-	2700
MDA	2552	Analyze and interpret a vorticity chart or vorticity model.	B,R,M	E	L	-	-	-	365		0		0		1.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2500, 2501, 2502, 2503, 2550	-	-	2701
MDA	2553	Analyze and interpret upper atmospheric weather charts.	B,R,M	E	L	-	-	-	365		0		0		6.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-	-	2702
MDA	2554	Analyze and interpret a surface weather chart.	B,R,M	E	L	-	-	-	365		0		0		2.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-	-	2703

MDA	2555	Analyze meteorological features on satellite imagery.	B,R,M	E	L/S	-	-	-	365		0		0		2.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503	-	-	2600
MDA	2556	Analyze meteorological features on radar products.	B,R,M	E	L	-	-	-	365		0		0		2.0	2003, 2004, 2022, 2023, 2024, 2025, 2027, 2028, 2054, 2500, 2501, 2502, 2503	2300	-	2301
TOTAL METOC DATA ANALYSIS (MDA) STAGE										0	0.0	0	0.0	7	16.0				
METEOROLOGICAL FORECASTING (METF) STAGE																			
METF	2600	Forecast macro/synoptic scale features.	B	E	L/S	-	-	-	*		0.0		0.0		2.0	2003, 2004, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-	-	2105
METF	2601	Develop synoptic scale forecast using prognosis techniques.	B,R,M	E	G	-	-	-	365		10.0		0.0		0.0	2003, 2004, 2019, 2020, 2055, 2056, 2551, 2552, 2553, 2554, 2600	-	-	2704
METF	2602	Forecast local area (mesoscale/microscale) meteorological elements and phenomenon.	B	E	G	-	-	-	*		2.0		0.0		0.0	2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-	-	2107
METF	2603	Forecast severe weather.	B	E	L/S	-	-	-	*		0.0		0.0		1.0	2003, 2004, 2022, 2023, 2024, 2025, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2600	-	-	2106
TOTAL METEOROLOGICAL FORECASTING (METF) STAGE										2	12.0	0	0.0	2	3.0				
METOC PRODUCT BRIEFING (MPB) STAGE																			
MPB	2650	Brief synoptic chart set.	B,R	E	L	-	-	-	*		0.0		0.0		3.0	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2600, 2601, 2602	-	-	2200
MPB	2651	Demonstrate proficiency in completing a flight weather briefing (DD 175-1).	B,R,M	E	L	-	-	-	365		0.0		0.0		3.5	2003, 2004, 2027, 2028, 2029, 2030, 2031, 2055, 2056, 2500, 2501, 2502, 2503, 2550	-	-	3302
TOTAL METOC PRODUCT BRIEFING (MPB) STAGE										0	0.0	0	0.0	2	6.5				
COMMUNICATIONS (COMM) STAGE																			
COMM	2700	Understand the fundamentals of Communications.	B	E	G	-	-	-	*		5.0		0.0		0.0	-	-	-	-

COMM	2701	Operate HF man-pack communications equipment.	B,R,M	E	L	-	-	-	365		0.0		0.0		8.0	2700	-	-	-
COMM	2702	Operate intra-team communications equipment.	B,R,M	E	L	-	-	-	365		0.0		0.0		2.0	2700	-	-	-
COMM	2703	Operate UHF/VHF/SATCOM man-pack communications equipment.	B,R,M	E	L	-	-	-	365		0.0		0.0		4.0	2700	-	-	-
COMM	2704	Describe proper handling and storage of classified materials.	B,R	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
COMM	2705	Plan physical security for classified areas.	B,R	E	G	-	-	-	*		2.0		0.0		0.0	-	-	-	-
COMM	2706	Extract key material information from EKMS callout.	B,R	E	G	-	-	-	*		2.0		0.0		0.0	2704	-	-	-
COMM	2707	Operate a common fill device (CFD).	B,R,M	E	L	-	-	-	365		0.0		0.0		2.0	2704, 2705, 2706	-	-	-
TOTAL COMMUNICATIONS (COMM) STAGE										4	11.0	0	0.0	4	16.0				
METOC DOCTRINE (MDN) STAGE																			
MDN	2750	Demonstrate an understanding of METOC's role in the Marine Corps Planning Process (MCPP).	B	E	G	-	-	-	*		3.0		0.0		0.0	-	-	-	-
TOTAL METOC DOCTRINE (MDN) STAGE										1	3.0	0	0.0	0	0.0				
ADMINISTRATION (ADM) STAGE																			
ADM	2808	Draft a Universal Needs Statement (UNS).	B	E	L/S	-	-	-	*		0.0		0.0		16.0	2105, 2106, 2806	-	-	-
ADM	2809	Draft an Urgent Operational Needs (UONs).	B	E	G	-	-	-	*		16.0		0.0		0.0	2105, 2106, 2806, 2808	-	-	-
ADM	2810	Describe the Marine Corps Action Tracking System (MCATS).	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
TOTAL ADMINISTRATION (ADM) STAGE										2	17.0	0	0.0	1	16.0				
LITTORAL FORECASTING/ANALYSIS (LFA) STAGE																			
LFA	2900	State the elements of a surf observation.	B	E	G	-	-	-	*		5.0		0.0		0.0	2000, 2003, 2004, 3151	-	-	3102
TOTAL LITTORAL FORECASTING/ANALYSIS (LFA) STAGE										1	5.0	0	0.0	0	0.0				

METOC IMPACT ASSESSMENT (MIA) STAGE																			
MIA	2950	State the physical METOC effect on the land domain and how they affect operations.	B	E	G	-	-	-	*		3.0		0.0		0.0	-	-	-	-
MIA	2951	State the physical METOC effect on the maritime domain and how they affect operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
MIA	2952	State the physical METOC effect on the air domain and how they affect operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	-	-	-	-
MIA	2953	State the physical METOC effect on the space domain and how they affect operations.	B	E	G	-	-	-	*		1.0		0.0		0.0	2053, 3007, 3008, 3009, 3010, 3011	-	-	-
TOTAL METOC IMPACT ASSESSMENT (MIA) STAGE										4	6.0	0	0.0	0	0.0				
TOTAL CORE SKILL PHASE (2000 PHASE)										105	355.0	0	0.0	30	98.0				
MISSION SKILL TRAINING (3000 PHASE EVENTS)																			
ACADEMICS (ACAD)																			
ACAD	3000	Complete 'METOC Support for Strike Warfare' resident course.	B	E	G	-	-	-	*		24.0		0		0	2090, 2091	-	-	3015
ACAD	3001	Complete 'METOC Support for Amphibious Warfare' resident course.	B	E	G	-	-	-	*		8.0		0		0	-	-	-	4001
ACAD	3002	Complete 'METOC Support for Combat Search and Rescue/ Search and Rescue (CSAR/SAR)' resident course.	B	E	G	-	-	-	*		8.0		0		0	-	-	-	3016
ACAD	3003	Complete 'Littoral Oceanography' resident course.	B	E	G	-	-	-	*		40.0		0		0	-	-	-	-
ACAD	3004	Complete 'Mobile Environmental Team Primer' resident course.	B	E	G	-	-	-	*		8.0		0		0	-	-	-	-
ACAD	3005	Complete 'Mobile Environmental Team	B	E	G	-	-	-	*		16.0		0		0	3004	-	-	-

		Trainer' resident course.																	
ACAD	3006	Complete 'METOC Support for Air Defense, Surface Warfare, and Information Warfare (AD, SW, IW)' resident course.	B	E	G	-	-	-	*		24.0		0		0	2091	-	-	-
ACAD	3007	Complete 'Space Weather Impacts on Aviation' module.	B	E	G	-	-	-	*		2.0		0		0	2053	-	-	-
ACAD	3008	Complete 'Space Weather - Layers of the Sun' module.	B	E	G	-	-	-	*		1.0		0		0	2053	-	-	-
ACAD	3009	Complete 'Space Weather – Active Regions' module.	B	E	G	-	-	-	*		1.0		0		0	2053	-	-	-
ACAD	3010	Complete 'Solar X-Ray Flares & HF Communications' module.	B	E	G	-	-	-	*		1.0		0		0	2053	-	-	-
ACAD	3011	Complete 'Equatorial Scintillation and UHF SATCOM' module.	B	E	G	-	-	-	*		1.0		0		0	2053	-	-	-
ACAD	3020	Complete 'Applied Environmental Sciences' (AES) Course.	B	E	G	-	-	-	*		78.0		0		0	-	-	-	3020
ACAD	3021	Complete 'METOC Impacts Analyst Course (MIAC)' course	B	E	G	-	-	-	*		60.5		0		0	3020	-	-	3021
ACAD	3022	Complete 'Riverine Analysis and Forecasting Course' resident course.	B	E	G	-	-	-	*		40.0		0		0	2046, 2047, 2051	-	-	4006
ACAD	3023	Complete 'METOC Support for Chemical, Biological, Radiological, and Nuclear Environment (CBRNE)' resident course.	B	E	G	-	-	-	*		8.0		0		0	-	-	-	4002
ACAD	3024	Complete 'METOC Support for Naval Special Warfare (NSW)' resident course.	B	E	G	-	-	-	*		24.0		0		0	-	-	-	4011

ACAD	3025	Complete 'Tactical Forecasting for Naval Special Warfare (NSW)' resident course.	B	E	G	-	-	-	*		24.0		0		0	-	-	-	4012
ACAD	3026	Complete 'OA Division Tactical Team (OATT) Trainer: Basic' resident course.	B	E	G	-	-	-	*		32.0		0		0	-	-	-	4013
ACAD	3027	Complete 'OA Division Tactical Team (OATT) Trainer: Intermediate' resident course.	B	E	G	-	-	-	*		32.0		0		0	-	-	-	4014
ACAD	3028	Complete 'OA Division Tactical Team (OATT) Trainer: Advanced' resident course.	B	E	G	-	-	-	*		32.0		0		0	-	-	-	4015
TOTAL ACADEMICS STAGE (ACAD)										21	464.5	0	0.0	0	0.0				
METEOROGICAL SURFACE OBSERVATIONS (MSO) STAGE																			
MSO	3100	Conduct a surface meteorological observation.	B,R,M	E	L	-	-	-	365		0		0		30.0	2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202	-	-	2402
MSO	3101	Conduct a surface meteorological observation.	B,R,M	E	L	-	-	-	365		0		0		30.0	2000, 2001, 2002, 2055, 2056, 2200, 2201, 2202	-	-	-
MSO	3102	Encode and disseminate a pilot weather report (PIREP).	B,R,M	E	L	-	-	-	365		0		0		1.0	2000	-	-	3300
TOTAL METEOROGICAL SURFACE OBSERVATIONS (MSO) STAGE										0	0.0	0	0	3	61				
ASTRONOMICAL/TIDAL DATA (ATD) STAGE																			
ATD	3150	Produce astronomical data.	B,R,M	E	L	-	-	-	365		0		0		1.0	2000, 2300, 2301	-	-	-
ATD	3151	Produce tidal data.	B,R,M	E	L	-	-	-	180		0		0		1.5	2000, 2003, 2004, 2048	-	-	3100
TOTAL ASTRONOMICAL/TIDAL DATA (ATD) STAGE										0	0.0	0	0.0	2	2.5				
EQUIPMENT (EQPT) STAGE																			
EQPT	3200	Operate the Automated Surface Observing System (ASOS).	B,R,M	E	L	-	-	-	365		0		0		0.5	-	-	-	3401
EQPT	3201	Operate garrison METOC equipment in order to provide support to base operations.	B,R,M	E	L	-	-	-	365		0		0		24.0	-	-	-	3402

EQPT	3202	Conduct management operations for the meteorological radar system.	B,R,M	E	L	-	-	-	365		0		0		6.0	2402	-	-	3403
EQPT	3203	Conduct a recon, selection, and occupation of position (RSOP) for METOC equipment.	B,R,M	E	L	-	-	-	180		0		0		4.0	-	-	-	-
EQPT	3204	Setup or assist with the setup of the AN/UMK-4(v)4, TESS/NITES.	B,R,M	E	L	-	-	-	180		0		0		1.0	-	-	-	-
EQPT	3205	Operate the AN/UMK-4(v)4 TESS/NITES.	B,R,M	E	L	-	-	-	180		0		0		12.0	-	48 HOURS TO COMPLETE	-	3409
EQPT	3206	Pack-out or assist with the pack-out of the AN/UMK-4(v)4, TESS/NITES.	B,R,M	E	L	-	-	-	180		0		0		1.0	-	-	-	-
EQPT	3207	Setup surface meteorological sensing systems.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3208	Pack the surface meteorological sensing system.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3209	Setup the meteorological radar subsystem for integrated operations.	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	3210	Pack the meteorological radar subsystem.	B,R,M	E	L	-	-	-	365		0		0		2.0	-	-	-	-
EQPT	3211	Setup the meteorological satellite subsystem.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3212	Pack the meteorological satellite subsystem.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3213	Setup the meteorological upper air subsystem for integrated operations.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3214	Pack the meteorological upper air subsystem.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-

EQPT	3215	Setup the meteorological communication subsystem.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3216	Pack the meteorological communication subsystem.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3217	Setup the meteorological product generation and dissemination subsystem.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3218	Pack the meteorological product generation and dissemination subsystem.	B,R,M	E	L	-	-	-	365		0		0		1.0	-	-	-	-
EQPT	3219	Operate the AN/TMQ-56 METMF(R) NEXGEN.	B,R,M	E	L	-	-	-	365		0		0		24.0	2402, 2403, 2404, 2405, 2406, 2407, 3202, 3207, 3209, 3211, 3213, 3215, 3217	-	-	3408
TOTAL EQUIPMENT (EQPT) STAGE										0	0.0	0	0.0	20	86.5				
METEOROGICAL FORECASTING (METF) STAGE																			
METF	3250	Produce a Terminal Aerodrome Forecast (TAF).	B,R,M	E	L	-	-	-	365		0		0		26.0	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3300, 3303	-	-	3301
METF	3251	Produce a limited data forecast.	B,R,M	E	L	-	-	-	365		0		0		6.0	2003, 2004, 2015, 2018, 2019, 2020, 2021, 2022, 2028, 2029, 2030, 2031, 2055, 2056, 2070, 2500, 2501, 2502, 2503, 2550, 2600, 2601	-	-	-

TOTAL METEOROGICAL FORECASTING (METF) STAGE										0	0.0	0	0.0	2	32.0				
METOC PRODUCT BRIEFING (MPB) STAGE																			
MPB	3300	Produce a flight weather packet.	B,R,M	E	L	-	-	-	365		0		0		2.0	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2051, 2052, 2054, 2055, 2056	-	-	3303
MPB	3301	Brief a flight weather briefing (DD 175-1).	B,R,M	E	L	-	-	-	365		0		0		0.1	2601	-	-	-
MPB	3302	Produce a 96-hour graphical METOC brief.	B,R,M	E	L	-	-	-	180		0		0		2.0	2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 3250	-	-	-
MPB	3303	Generate and conduct a climatology brief.	B,R,M	E	L	-	-	-	365		0		0		12.0	2003, 2004, 2036	-	-	2800
MPB	3304	Conduct an aviation strike brief.	B, R	E	L	-	-	-	*		0		0		3.0	2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-	-	3304
MPB	3305	Conduct an aviation assault brief.	B, R	E	L	-	-	-	*		0		0		3.0	2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-	-	-
MPB	3306	Conduct an amphibious warfare brief.	B, R	E	L	-	-	-	*		0		0		8.0	2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-	-	-

MPB	3307	Conduct a Search and Rescue (SAR) brief.	B, R	E	L	-	-	-	*		0		0		2.0	2053, 2950, 2951, 2952, 2953, 3001, 3007, 3008, 3009, 3010, 3011, 3304	-	-	3308
TOTAL METOC PRODUCT BRIEFING (MPB) STAGE										5	0.0	0	0.0	8	32.1				
LITTORAL FORECASTING/ANALYSIS (LFA) STAGE																			
LFA	3350	Compute Modified Surf Index (MSI).	B,R,M	E	L	-	-	-	180		0		0		1.0	2900, 3151	-	-	3103
LFA	3351	Create a surf forecast.	B,R,M	E	L	-	-	-	180		0		0		24.0	2900, 3151, 3350	-	-	3104
TOTAL LITTORAL FORECASTING/ANALYSIS (LFA) STAGE										0	0.0	0	0	2	25.0				
METOC IMPACT ASSESSMENT (MIA) STAGE																			
MIA	3400	Produce METOC impacts on command, control, and communication (C3) operations.	B,R,M	E	L	-	-	-	365		0		0		3.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-	-	-
MIA	3401	Produce METOC impacts on MAGTF operations.	B,R,M	E	L	-	-	-	365		0		0		3.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-	-	-
MIA	3402	Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.	B,R,M	E	L	-	-	-	365		0.0		0.0		3.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011, 3401	-	-	-
TOTAL METOC IMPACT ASSESSMENT (MIA) STAGE										0	0.0	0	0.0	3	9.0				
METEOROGICAL SURFACE OBSERVATIONS (MSO) STAGE																			
MGT	3450	Deploy a METOC section in support of unit operations.	B,R,M	E	L	-	-	-	365		0		0		24.0	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3500	-	-	-
MGT	3451	Manage METOC Operations in support of unit exercise or deployment.	B,R,M	E	L	-	-	-	365		0		0		12.0	2704, 2705, 2750, 2751, 2850, 2851, 2852, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3450, 3500	-	-	-
TOTAL METEOROGICAL SURFACE OBSERVATIONS (MSO) STAGE										5	0.0	0	0	23	36				
METOC DOCTRINE STAGE (MDN)																			

MPC	3500	Submit input to annexes of operational orders.	B	E	L	-	-	-	*		0		0		8.0	2057, 2058, 2059	-	-	-
MPC	3505	Conduct METOC support for Intelligence Operations.	B,R,M	E	L	-	-	-	730		0		0		35.0	-	-	-	-
TOTAL METOC DOCTRINE STAGE (MDN)										0	0.0	0	0.0	2	43.0				
TOTAL MISSION SKILL PHASE (3000 PHASE)										31	464.5	0	0.0	65	327.1				
MISSION PLUS SKILL TRAINING (4000 PHASE EVENTS)																			
ACADEMIC (ACAD) STAGE																			
ACAD	4000	Complete 'Mediterranean Forecast Course' resident course.	B	E	G	-	-	-	*		16.0		0		0	-	-	-	4008
ACAD	4001	Complete 'Central Command (CENTCOM) AOR Forecasting' resident course.	B	E	G	-	-	-	*		16.0		0		0	-	-	-	4009
ACAD	4002	Complete 'METOC Forecasting for COMSEVENTHFLT AOR' resident course.	B	E	G	-	-	-	*		16.0		0		0	-	-	-	4010
ACAD	4021	Complete 'Lean Six Sigma White Belt' course.	B	E	G	-	-	-	*		2.0		0		0	-	-	-	
ACAD	4022	Complete 'Lean Six Sigma Yellow Belt' course	B	E	G	-	-	-	*		8.0		0		0	4021	-	-	-
TOTAL ACADEMIC (ACAD) STAGE										5	58.0	0	0.0	0	0.0				
LITTORAL FORECASTING/ANALYSIS (LFA) STAGE																			
LFA	4100	Conduct a surf observation.	B,R,M	E	L	-	-	-	720		0		0		30.0	2900	-	-	3101
TOTAL LITTORAL FORECASTING/ANALYSIS (LFA) STAGE										0	0.0	0	0.0	1	30.0				
METOC IMPACT ASSESSMENT (MIA) STAGE																			
MIA	4150	Produce METOC impact products to support planning and execution of joint and/or coalition operations and missions.	B,R	E	L	-	-	-	*		0		0		24.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-	-	-

MIA	4152	Assess METOC impacts on Chemical, Biological, Radiological and Nuclear Environment (CBRNE) defensive operations.	B,R	E	L	-	-	-	*		0		0		3.0	2053, 2950, 2951, 2952, 2953, 3007, 3008, 3009, 3010, 3011	-	-	-
TOTAL METOC IMPACT ASSESSMENT (MIA) STAGE										11	0.0	0	0	0	27.0				
MANAGEMENT (MGT) STAGE																			
MGT	4254	Perform System Administration.	B,R,M	E	L	-	-	-	1095		0		0		8.0	-	-	-	-
TOTAL MANAGEMENT (MGT) STAGE										0	0.0	0	0.0	1	8.0				
METOC PLANNING COORDINATION (MPC) STAGE																			
MMTM	4300	Conduct MMT assault landing zone (ALZ) Operations.	B	E	L	-	-	-	*		0		0		6.0	-	-	-	-
MMTM	4301	Conduct MMT Helicopter Landing Zone (HLZ) Operations.	B	E	L	-	-	-	*		0		0		4.0	-	-	-	-
MMTM	4302	Conduct MMT land navigation operations.	B,R	E	L	-	-	-	*		0		0		12.0	-	-	-	-
MMTM	4303	Collect assault zone survey data using equipment organic to the MMT.	B,R,M	E	L	-	-	-	730		0		0		12.0	-	-	-	-
MMTM	4304	Perform as a METOC MMT Member during operational planning.	B,R,M	E	L	-	-	-	1460		0		0		2.0	-	-	-	-
MMTM	4305	Operate the Dynamic Cone Penetrometer (DCP).	B,R	E	L	-	-	-	*		0		0		2.0	-	-	-	-
MMTM	4306	Operate the Laser Range Finder (LRF).	B,R	E	L	-	-	-	*		0		0		2.0	-	-	-	-
TOTAL METOC PLANNING COORDINATION (MPC) STAGE										0	0.0	0	0.0	7	40.0				
TOTAL MISSION PLUS SKILL PHASE (4000 PHASE)										16	58.0	0	0.0	9	105.0				
TOTAL 2000, 3000, AND 4000 PHASE										152	877.5	0	0.0	101	530.1				
INSTRUCTOR TRAINING (5000 PHASE EVENTS)																			
INSTRUCTOR UNDER TRAINING (IUT)																			
BASIC INSTRUCTOR (BI)																			
IUT	5000	Introduce principles of instruction.	B	E	G	-	-	-	*		2.0		0		0	-	-	-	5000
IUT	5010	Understand the structure of an event.	B	E	G	-	-	-	*		1.0		0		0	5000	-	-	5010

IUT	5020	Conduct a period of instruction on a T&R event.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010	-	-	5020
TOTAL BASIC INSTRUCTOR SKILLS STAGE (BI)										3	5.0	0	0.0	0	0.0				
SENIOR INSTRUCTOR (SI)																			
IUT	5100	Understand the Aviation Training and Readiness (T&R) Program.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010, 5020, 6320	-	-	5100
IUT	5110	Understand the applicable community T&R program.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010, 5020, 5100, 6320	-	-	5110
IUT	5120	Understand T&R administration.	B	E	G	-	-	-	*		2.0		0		0	5000, 5010, 5020, 5100, 5110, 6320	-	-	5120
IUT	5130	Develop a training plan.	B,R,M	E	G	-	-	-	365		2.0		0		0	5000, 5010, 5020, 5100, 5110, 5120, 6320	-	-	5130
TOTAL SENIOR INSTRUCTOR SKILLS STAGE (SI)										4	8.0	0	0.0	0	0.0				
TOTAL INSTRUCTOR UNDER TRIANING SKILLS PHASE (IUT)										7	13.0	0	0.0	0	0.0				
REQUIREMENTS, QUALIFICATIONS, CERTIFICATIONS, AND DESIGNATIONS (RQCD) (6000 PHASE)																			
SCHOOL CODES (SCHL) STAGE																			
SCHL	6000	Weapons and Tactics Instructor (WTI) course	B	-	G	-	-	-	*		0.0		0.0		0.0	-	-	-	-
TOTAL SCHOOL CODES (SCHL) STAGE										1	0.0	0	0.0	0	0.0				
QUALIFICATIONS (QUAL) STAGE																			
QUAL	6200	Qualify as a METOC Observer (MO).	B	E	L	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 3100, 3101, 3102, 3150, 3151	-	-	-

QUAL	6201	Qualify as an Apprentice METOC Analyst Forecaster (AMAF).	B	E	L	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3101, 3102, 3150, 3151, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067	-	-	6200

QUAL	6202	Qualify as a Journeyman METOC Analyst Forecaster (JMAF).	B	E	L/S	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3505, 6200, 6201, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067	-	-	6201

QUAL	6203	Qualify as a METOC Support Team Observer (MSTO).	B	E	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2700, 2701, 2702, 2703, 3004, 3026, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 6200, 6211	-	-	-
QUAL	6204	Qualify as a METOC Support Team Forecaster (MSTF).	B	E	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 3001, 3002, 3003, 3004, 3022, 3023, 3024, 3025, 3026, 3027, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 6204, 6211, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067	-	-	-

QUAL	6205	Qualify as a METOC Support Team Leader (MSTL).	B	E	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2101, 2108, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2401, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 3207, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3500, 3505, 6200, 6201, 6202, 6203, 6204, 6211, 8000,	-	-	-

																8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			
QUAL	6206	Qualify as a Marine Air Traffic Control Mobile Team (MMTM).	B	E	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2400, 2401, 2700, 2701, 2702, 2703, 2704, 3004, 3026, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 4300, 4301, 4302, 4303, 4304, 4305, 4306, 6200, 6203, 6320	-	-	-
TOTAL QUALIFICATIONS (QUAL) STAGE										4	4.0	0	0	3	3.0				

CERTIFICATIONS (CERT) STAGE																			
CERT	6210	Certify as a Station MO.	B	-	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2350, 2400, 3100, 3101, 3102, 3150, 3151, 3200, 3201, 6200	-	-	-
CERT	6211	Certify as a Tactical MO.	B	-	G	-	-	-	*		1.0		0.0		0.0	2000, 2001, 2002, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 3100, 3101, 3102, 3150, 3151, 3204, 3205, 3206, 6200	-	-	-
CERT	6212	Certify as a Tactical AMAF.	B	-	L	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2252, 2300, 2301, 2350, 2400, 2402, 2403, 2404, 2405, 2406, 2407, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 3100, 3101, 3102, 3150, 3151, 3202, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3250, 3251, 3300, 3301, 3302, 3303, 6200, 6201, 8000, 8001, 8002, 8003,	-	-	-

																8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067			
TOTAL CERTIFICATIONS (CERT) STAGE										2	2.0	0	0.0	1	1.0					
DESIGNATIONS (DESG) STAGE																				

DESG	6300	Designation as a Regional METOC Center Chief (RMCC).	B	-	L	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067	-	-	-

DESG	6301	Designation as a Marine Air Traffic Control Detachment METOC Chief (MMC).	B	-	L	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067	-	-	-

DESG	6302	Designation as a Intel METOC Chief (IMC).	B	-	L	-	-	-	*		0.0		0.0		1.0	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2090, 2091, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2250, 2251, 2300, 2301, 2400, 2402, 2500, 2501, 2502, 2503, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2600, 2601, 2602, 2603, 2650, 2651, 2750, 2751, 2850, 2851, 2852, 2856, 2857, 2900, 2950, 2951, 2952, 2953, 3000, 3006, 3007, 3008, 3009, 3010, 3011, 3020, 3021, 3100, 3101, 3102, 3150, 3151, 3203, 3250, 3251, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3350, 3351, 3400, 3401, 3402, 3450, 3451, 3500, 3505, 6200, 6201, 6202, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8040, 8041, 8042, 8043, 8044, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067	-	-	-

DESG	6320	Designation as a Basic Instructor (BI).	B	-	L	-	-	-	*		0.0		0.0		1.0	5000, 5010, 5020	-	-	6320
DESG	6321	Designation as a Senior Instructor (SI).	B	-	L	-	-	-	*		0.0		0.0		1.0	5000, 5010, 5020, 5100, 5110, 5120, 5130, 6320	-	-	6321
DESG	6322	Designation as Weapons and Tactics Instructor (WTI).	B	-	L	-	-	-	*		0.0		0.0		1.0	6000	-	-	6322
TOTAL DESIGNATIONS (DESG) STAGE										0	0.0	0	0.0	6	6.0				
TOTAL REQUIREMENTS, QUALIFICATIONS, CERTIFCATIONS, AND DESIGNATIONS PHASE (RQCD)										7	6.0	0	0.0	10	10.0				

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