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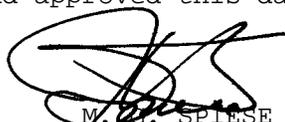
From: Commandant of the Marine Corps
To: Distribution List

Subj: METEOROLOGICAL ELECTRICIAN MAINTENANCE (METEM) T&R MANUAL

Ref: (a) NAVMC 3500.14A

Encl: (1) METEM T&R Manual

1. Purpose. To publish training standards and regulations regarding the training of Marine Corps METEM technicians per reference (a).
2. Information. Significant Training and Readiness concepts included in this Manual are as follows:
 - a. Alignment of training objectives with Defense Readiness Reporting System (DRRS) directives.
 - b. Guidance for community Core Mission Essential Task List (METL) incorporation.
 - c. Introduction of Mission Skills Concept.
 - d. Standardized evaluation policy.
3. Action. Commanders will ensure that the METEM training, qualifications, and certifications are accomplished per the instructions and guidance in this Manual. CG TECOM shall provide funding for identified course(s) that satisfy event training.
4. Recommendations. Recommended changes to this publication are invited, and may be submitted via the syllabus sponsor (MARDET Keesler) and the appropriate chain of command to: Commanding General, Training and Education Command, Aviation Training Branch via e-mail (refer to <https://www.intranet.tecom.usmc.mil/sites/atb/Lists/Contacts/Sorted.aspx>) or the Defense Message System using the following plain language address: CG TECOM QUANTICO VA ATB.
5. Reserve Applicability. This Manual is applicable to the Marine Corps Total Force.
6. Certification. Reviewed and approved this date.


M. J. SPIESE
By direction

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CHAPTER 1

METEOROLOGICAL EQUIPMENT TECHNICIAN (METEM) TRAINING AND READINESS UNIT REQUIREMENTS

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CHAPTER 1

METEOROLOGICAL EQUIPMENT MAINTENANCE TECHNICIAN (METEM) TRAINING AND
READINESS UNIT REQUIREMENTS

100. METEM UNIT TRAINING AND READINESS REQUIREMENTS. Marine Aviation plays a crucial role in the MAGTF's ability to conduct Maneuver Warfare. The ultimate goal of Marine Aviation 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 Marine Aviation remains ready for combat when and where the need arises. These standards, intrinsic in the core competency readiness metric, describe and define unit capabilities and requirements necessary to maintain like squadron proficiency in core skills and combat leadership. Training events are based on specific requirements and performance standards that ensure crews maintain a common base of training and depth of combat capabilities. The T&R comprises a building block approach to ensure trained crews remain ready, relevant, and fully capable of supporting the MAGTF commander. The T&R manual represents the collaborative effort of METEM Subject Matter Experts who designed training standards to maximize combat capabilities.

101. MISSION. Support the MAGTF commander by assessing, maintaining, and repairing meteorological equipment so that data relevant to friendly and enemy force strengths and vulnerabilities is available real time for the planning and execution of operations necessary to characterize the battle space. This includes equipment used for atmospheric, space, climatic and oceanographic/ hydrological data for use in the production of Tactical Decision Aids (TDA) and METOC effects matrices. This is done day or night under all meteorological conditions during expeditionary, joint or combined operations.

102. TABLE OF ORGANIZATION (T/O). Refer to T/Os 8702, 8703 and 4714 (see Table 1-3) managed by Total Force Structure (TFS), Marine Corps Combat Development Command (MCCDC), for current authorized organizational structure and personnel strength. Information below depicts METEM T/O information as of the date of this directive.

Table 1-1.--METEM T/Os.

<u>T/O for Aviation / Ground</u>
<u>Marine Wing Support Squadron (MWSS)</u>
Enlisted - 3 (6493)
<u>Intelligence Battalions</u>
Enlisted - 3 (6493)
<u>West Regional METOC Production Center (RMC)</u>
Enlisted - 4 (6493)
<u>East Regional METOC Production Center (RMC)</u>
Enlisted - 2 (6493)
<u>MCAF Quantico</u>
Enlisted - 1 (6493)
<u>OCONUS METOC Office (Kaneohe Bay)</u>
Enlisted - 1 (6493)
<u>OCONUS METOC Office (Futenma)</u>
Enlisted - 1 (6493)
<u>MARDET Keesler</u>
Enlisted - 3 (6493)
<u>SPAWAR SYTEMS COMMAND</u>
Enlisted - 1 (6493)

1. Core Capability. Provide direct and indirect support to all combat elements of the MAGTF. For clarity, core capabilities of each task organized METEM support unit and detachment are defined.

2. MWSS METEM Section. The MWSS METEM section must be able to sustain continuous meteorological equipment readiness for all aviation and ground operations for a parent command, Forward Operating Base (FOB) and two Forward Arming and Refueling Points (FARPs). The baseline METEM section will provide support for 72-hour continuous operations without re-supply or additional augmentation to meet any MAGTF and/or combined/joint mission is a standard 3-Marine team. A core capable MWSS Detachment provides first-in and rapid establishment of METOC support to a MAGTF command element other than ACE. The capabilities are limited to collection of surface observational data, data archive, and pre-determined maintenance and troubleshooting procedures. Support capability is based on 72-hour flight/mission operations and assumes greater than or equal to 70 percent operational meteorological equipment readiness and greater than or equal to 90 percent T/O personnel on-hand. If unit equipment is less than 70 percent or T/O personnel is less than 90 percent, core capability will be degraded by a like percentage. A core capable unit is able to accomplish all tasks designated in the unit METL from a main or expeditionary base.

3. Intel Battalion (Intel Bn) METEM. The Intel Bn's METEM section of the METOC platoon is capable of providing meteorological equipment support while establishing and maintaining 24/7 METOC support operations. When directed by the MAGTF commander, the Intel Bn's METEM section will establish and maintain

the MAGTF's METOC support center. The MAGTF's METOC support center will coordinate and ensure the collection, assimilation and dissemination of Meteorological data and information to and from MAGTF Meteorological units while simultaneously interfacing with Joint Meteorological units through applicable command and control nodes. Additionally, the Intel Bn's METOC platoon will ensure the core equipment support capability for the MEB's and MEU(SOC)'s CE as well as provide augmentation to the GCE's and LCE's METOC Chief within the Intelligence Section when requested.

4. Regional METOC Center. The RMC must be able to sustain continuous meteorological equipment operations for all Marine Corps aviation and ground operations for the assigned region. The RMC will provide support 24 hours a day for 365 days a year. A core capable RMC provides METOC support to all Department of Defense Activities operating aboard all Marine Corps Installations in the assigned region and to all Marine Corps Elements operating within the assigned region. The capabilities are limited to collection of surface observational data, METOC weather radar operations, and data archive. Support capability is based on standard operations being conducted in CONUS with greater than or equal to 90 percent T/O personnel on-hand. If unit equipment is less than 70 percent or T/O personnel is less than 90 percent, core capability will be degraded by a like percentage. A core capable unit is able to accomplish all tasks assigned within the region. All RMC equipment maintenance will be performed by the installation which the equipment is based at.

103. CORE SKILLS/MISSION SKILL ABBREVIATIONS TABLE

Table 1-2.--METEM Core Skills

Core Skills/Mission Skills Abbreviation	
CORE/MISSION SKILL	ABBREVIATION
First Aid and Safety	FAS
Electronic Fundamentals	ECF
Embarkation and Debarkation	EMB
Maintenance Procedures	MAP
Maintenance Administration	MAD
Security	SEC
System Administration	SAM
Maintenance Policies and Procedures	MPP

104. CORE METL AND CORE METL OUTPUT STANDARDS

1. Core METL. A standardized list of specified tasks a unit was designed to perform. Selected tasks are drawn from the Marine Corps Task List (MCTL) and are standardized by type unit.

2. Core METL Output Standards. The required level of performance a unit must be capable of sustaining during contingency/combat operations by METEM to be considered METEM-ready. Output standards are not applicable.

Table 1-3.--Core METL.

METEM Mission Skills Output Standards	
Mission Essential Task List	
MCT	MET
2.1.2.7	Conduct Climatic/Meteorological Analysis
4.6.3	Provide Airfield Operations Services
4.6.3.10	Provide Aviation Weather Services

105. CORE METL TO CORE SKILL/MISSION SKILL MATRIX. Provides a pictorial view of the relationship between the unit Core METL and each Core Skill and Mission Skill required to perform the METL. Shading indicates a Core Plus MET and corresponding Mission Skill.

1. Core Skills. Fundamental, environmental, or conditional capabilities required to perform basic functions (2000 phase). These basic functions serve as tactical enablers that allow crews to progress to the more complex Mission Skills.

2. Mission Skills. Mission Skills enable a unit to execute a specific MET. They are comprised of advanced unique event(s) (3000 phase) that are focused on MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness developed via core skill training.

3. Core Model. requires individual and unit proficiency in both Core Skills and Mission Skills.

Table 1-4.--Core Skill/Mission Skill Matrix. (shaded area core plus)

Core METL to Core Skills/Mission Skills Matrix										
METL	Core Skills							Mission Skills		
	FAS	ECF	EMB	MAP	MAD	SAM	SEC	ECF	EMB	MPP
Conduct CMA Climatic/Meteorological Analysis	✓	✓		✓	✓	✓	✓	✓		
Provide AOS Airfield Operations Services	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Provide AWS Aviation Weather Services	✓	✓		✓	✓	✓	✓	✓		✓
Core plus METL only NONE										

4. Standards. defined and described in this section are provided to ensure METEM units maintain a common base of training and depth of capabilities along with a standardization of structure, organization and content of the

METEM T&R manual. When resources permit and the commander deems additional training would significantly increase unit warfighting capability, training to a level above these base capabilities is encouraged. It is incumbent upon, and expected of the commander to balance any increase in the depth of core capabilities against the long-term combat readiness of the unit. Core competency serves as the foundation of the T&R program. Core competencies are those core capabilities that are realistically expected to be assigned in combat, which support the METs derived from MCWP 3-35.7 and T/O mission statements.

5. Unit Training Management (UTM). The application of the Marine Corps Training Principles and the Systems Approach to Training (SAT) to satisfy the training requirements of commanders at all levels in order to accomplish their wartime mission. Guidance concerning unit training management and the process for establishing effective unit training management programs are contained in Marine Core Reference Publication (MCRP) 3-0A, Unit Training Management Guide (UTM), and form the basis for the development of this T&R Manual. Familiarity with MCRP 3-0A will enhance the understanding of SAT used in the T&R development and Marine Corps UTM principles.

106. CORE METL TO CORE PLUS/MISSION SKILL MATRIX. Provides a view of the relationship between the unit Core METL and each Core Plus and Mission Skill required to perform the METL. Shading indicates a Core Plus MET and corresponding Mission Skill.

1. Core Plus Skills. Core Plus Skills have a low probability of execution or are theater specific (4000 phase) and are not included in the unit readiness evaluation. However, units may elect to train several crews in these Core Plus skill areas to maintain resident expertise.

2. Core METL to Core Plus/Mission Skills Matrix. Provides a view of the relationship between the unit METL, Core Plus and Mission Skills required to perform the METL. Shading indicates a Core Plus MET and corresponding Mission Skill.

Table 1-5.--Core METL Core Plus/Mission Skill Matrix. (shaded area core plus)

Core METL to Core Plus/Mission Skills Matrix				
METL	Core Plus Skills	Mission Skills		
Conduct:	MPP	MPP	ECF	EMB
Conduct Climatic/Meteorological Analysis	✓	✓	✓	
Provide Airfield Operations Services	✓	✓	✓	✓
Provide Aviation Weather Services	✓	✓	✓	✓

107. METEM CMMR CORE AND MISSION SKILLS CREW DEFINITION AND PROFICENCY REQUIREMENTS. This table delineates crew position and proficiency requirements for each Core and Mission Skill. The numbers associated with each crew position column reflect the number of Core and Mission Skill Proficient individuals required.

1. The Community or Unit CMMR is determined by community T&R conference SMEs and consists of the Crew Definition/ Core and Mission Skill Proficiency, Crew Definition/Core Plus Skill Proficiency, Combat Leadership, and Instructor Requirements tables.

2. The CMTR will display Core and Mission Skill Proficiency numbers in terms of individuals and crews by comparing actual numbers of proficient crews (via M-SHARP logged data) to CMMR tables providing a readiness picture to the unit. The CMTR will not display Core Plus Skill Proficiency.

3. Core and Mission Skill Crew Definition and Proficiency Requirements. The crew definition delineates crew position and proficiency requirements for each Core and Mission Skill. The numbers associated with each crew position column reflect the number of Core and Mission Skill Proficient individuals required. CMMR Core and Mission Skills format shall be as follows:

Table 1-6.--CMMR Core/Mission Skill Matrix. (shaded area core plus)

CMMR Core and Mission Skills			
CORE SKILLS	AMT	JMT	MMT
FAS	1	1	1
ECF	1	1	1
EMB	1	1	1
MAP	1	1	1
MAD	1	1	1
SEC	1	1	1
SAM	1	1	1
MISSION SKILLS	AMT	JMT	MMT
ECF	1	1	1
EMB	1	1	1
MPP	0	1	1

108. CMMR CORE PLUS CREW DEFINITION AND PROFICENCY REQUIREMENTS. This table delineates crew position and proficiency requirements for each Core Plus and Mission Skill. The numbers associated with each crew position column reflect the number of Core Plus proficient individuals required.

Table 1-7.--CMMR Core Plus Skill Matrix. (shaded area core plus)

CMMR Core Plus Skills			
CORE PLUS SKILLS	AMT	JMT	MMT
MPP	0	0	1

109. CMMR COMBAT LEADERSHIP REQUIREMENTS. At a minimum, in order to be considered Core Competent, a unit must possess the following numbers of crews with the listed combat leadership designations.

1. Each unit must maintain Combat Leaders capable of providing the commander the leadership skills and qualities required to project combat power. The CMMR for Combat Leadership is defined in terms of minimum numbers of tactical leaders required to execute the unit METL and is delineated in the respective model/series specific T&R Manual.

2. The combat leadership metric (CMMR) is applicable to the entire unit readiness assessment and is not tied specifically to individual METs. Individuals count towards this requirement upon designation in writing by the commanding officer. The figure below provides a generic example of combat leadership requirements.

3. Combat Leadership designations are earned at the unit level in accordance with this Manual and the community specific T&R Manual.

Table 1-8.--Unit CMMR Combat Leadership Matrix. (shaded area core plus)

Unit CMMR Combat Leadership/Instructors	
COMBAT DESIGNATION	6493
MMT	1
JMT	1
AMT	1

110. INSTRUCTOR REQUIREMENTS. The CMMR for Instructors is defined in terms of the minimum requirement to replenish the cadre of Core and Mission Skill Proficient crews and Combat Leaders every year. Individuals count towards this requirement upon designation in writing by the commanding officer, as depicted below. Commanding and executive officers do not count in this total. This community does not have a requirement for unit instructors.

111. EVENT FORMAT. An event contained within a T&R manual is an individual or collective training standard. The following elements may be dependent on the stage in which they are contained:

1/ SAM-XXX	2/ 3/ 0.5 180	4/ *,B,Z,R	5/ E	6/ G,M,N	8/ L/S	9/ (N)
---------------	------------------	---------------	---------	-------------	-----------	-----------

Goal. State the terminal-learning objective.

Requirement. List the specific tasks for the event; indicate what the crew/individual must accomplish.

Performance Standard. Describe the measurable level of proficiency for that event.

Prerequisite. Provides a listing of academic training or other T&R events that must be completed before satisfying the task.

External Syllabus Support. A listing or description of the external support requirements that may be required to satisfy the completion of the task. May include range requirements, support aircraft, targets, training devices, or other personnel and equipment.

Notes:

- 1/ Stage abbreviation-Training Code.
- 2/ Projected event duration is furnished as a planning tool.
- 3/ Refresh time to keep current qualification(s) and or designation(s).
- 4/ Denotes the applicable Program of Instruction (**B** Basic POI is understood), **Z** is reserve, **R** is refresher, ***** is not refresher.
- 5/ An **"E"** indicates an Evaluated event by a qualified instructor.
- 6 The equipment or activity subcategory is listed **"G"** = Garrison Equipment; **"M"** = METMF(R); **"N"** = NITES IV.
- 9/ Event Conditions Code: **"L"** = live Training; **"S"** = simulator training; **"L/S"** = live preferred/simulator optional; **"S/L"** = simulator preferred/live optional; **"(N)"** = day or night optional conditions.
- 10/ Goal
- 11/ Requirement
- 12/ Performance standard
- 13/ Prerequisite
- 16/ External Syllabus Support
- 17/ References

Stage Prerequisite. A T&R stage that must be completed prior to commencing another training requirement is a stage prerequisite. For example, a community may require a specific stage to be completed as a prerequisite for an event.

Phase Prerequisite. A T&R phase that must be completed prior to commencing another training requirement is a phase prerequisite. For example, completion of the 1000 phase is normally a prerequisite to commencing the 2000 phase training.

Certification Prerequisite. For Aviation Ground only. A certification that must be completed prior to completing another

raining requirement is a certification prerequisite. For example, a LAAD Platoon Commander certification is normally a prerequisite to commencing Battery/Battalion training.

Qualification Prerequisite. A qualification that must be completed prior to commencing another training requirement is a qualification prerequisite. For example the NSQ HLL qualification is normally a prerequisite to commencing NSQ LLL qualification training.

Designation Prerequisite. A designation that must be completed prior to commencing another training requirement is a designation prerequisite. For example, the Section Leader designation is normally a prerequisite to commencing Division Leader designation training.

CHAPTER 2

METEOROLOGICAL EQUIPMENT TECHNICIAN (METEM) 6493) INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

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CHAPTER 2

METEOROLOGICAL EQUIPMENT TECHNICIAN (METEM) 6493 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS

200. METEM/6493 INDIVIDUAL TRAINING AND READINESS REQUIREMENTS. This T&R Syllabus is based on specific goals and performance standards designed to ensure individual proficiency in Core and Mission Skills. The goal of this chapter is to develop individual and unit warfighting capabilities. Realizing this Manual is unclassified; DC AVN and CG MCCDC encourage squadrons to use the full range of current, newly developed, and proven tactics. The Core Skill Introduction phase is designed for instructors and trainees to maximize training and minimize syllabus support hours. An instructor shall evaluate all events annotated with an "E" per Aviation T&R Program Manual, chapter 2. Instructors are responsible for assessing performance during a particular event. The Senior METEM Technician (if available), METOC Senior enlisted, METOC officer, or Ground Electronics Maintenance Officer shall ensure designation, qualification, and requirement codes are entered in the appropriate event, stage, or phase tracking software (MSHARP) and the individual training jackets.

201. METEM TRAINING PROGRESSION MODEL. This model represents the recommended training progression for the average 6493 METEM Marine. Units should use the model as a point of departure to generate individual training plans.

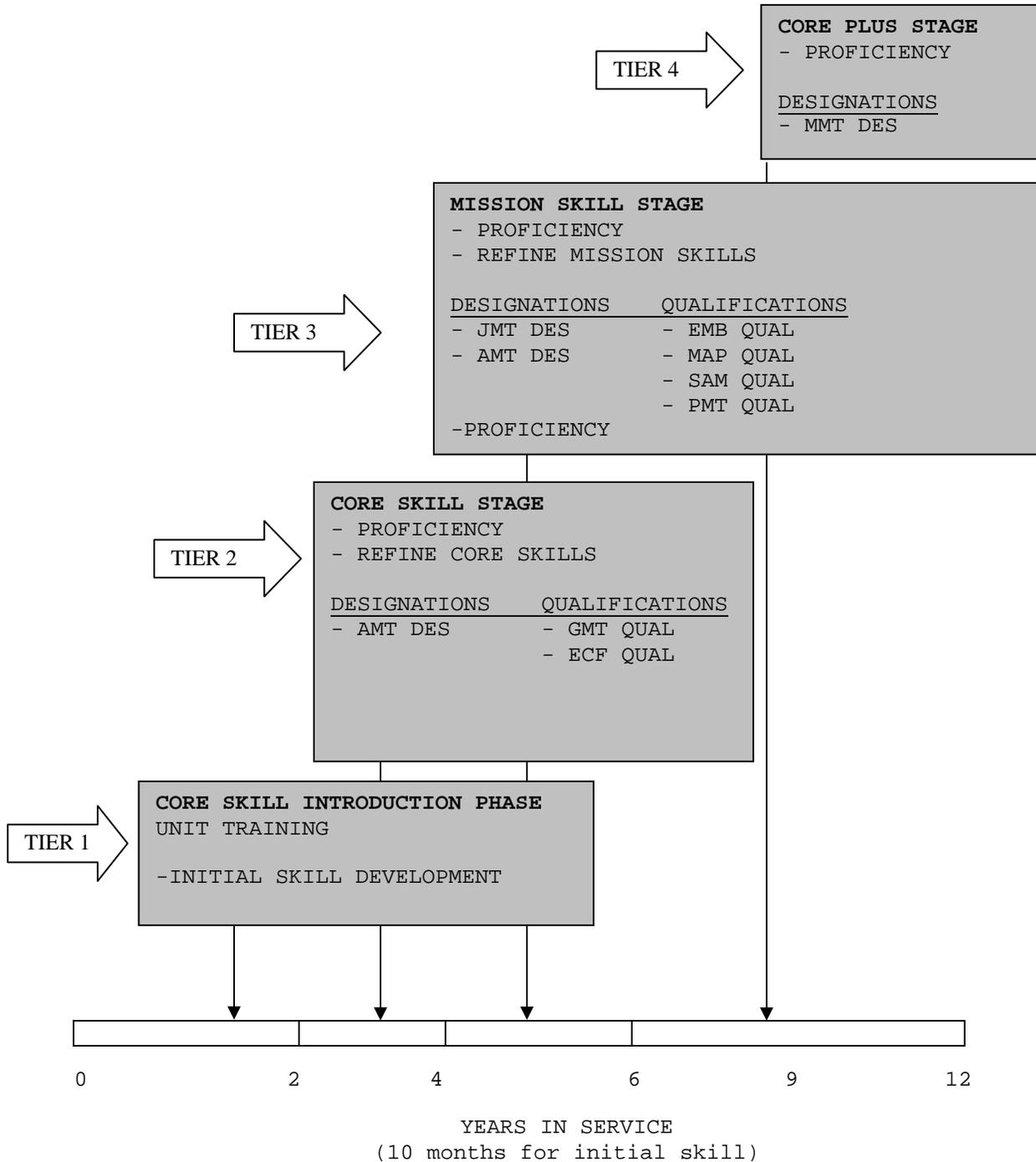


Figure 2-1.-- METEM Enlisted Training Progression Model.

202. INDIVIDUAL CORE SKILL PROFICIENCY (CSP) REQUIREMENTS. A CSP crew consists of individuals representing each crew position who have achieved and currently maintain Individual CSP. In order to be considered proficient in a Core Skill, an individual must attain and maintain proficiency in Core Skill events as delineated in the below paragraphs.

1. CSP General Rules. The following rules apply when updating/developing Attain and Maintain CSP tables.

a. All Core Skills shall be represented in the Attain and Maintain CSP tables.

b. All 2000 level events shall be listed in the Attain Table under the applicable Core Skill.

c. All events in the Attain Table that are not listed in the Maintain table shall be chained by event(s) in the Maintain Table unless the event(s) is not assigned a refresh interval (one time training requirement)

d. The Maintain Table shall contain at least one event for each Core Skill. Events in the Maintain Table shall be R-coded (Refresher POI) events.

e. During a T&R review, SME's shall consider the following regarding T&R events in the Attain Table that are not chained by event(s) in the Maintain Table:

(1) Such events must not be assigned a refresh factor ('*' listed for refresh factor) or,

(2) Such events must be moved to the Maintain Table or,

(3) Such events must be moved out of the Core Skill phase (2000) to another phase (4000+) or,

(4) Such events must be deleted from the syllabus.

2. CSP Attain Table Events. Events in CSP Attain Tables consist of events required for individuals to initially attain proficiency in each Core Skill. To attain Individual CSP, an individual must simultaneously have a proficient status in all of the events listed in the CSP Attain Table for that Core Skill. All 2000 level Basic POI events shall be listed in the Attain Table under the applicable Core Skill.

3. Events Required to Attain Individual CSP. To initially attain CSP in a Core Skill, an individual must simultaneously have a proficient status in all 2000 level T&R events listed for that Core Skill:

Table 2-1.--Individual CSP Attain Table.

Individual CSP Attain Table							
6493/METEM	FAS	ECF	EMB	MAP	MAD	SEC	SAM
T&R event	2001	2005	2120R	2125R	2130	2140	2145R
Requirements	2100R	2006	2121R	2126R	2131R	2141	2146R
to Attain CSP	2101	2007	2122R	2127R	2132R	2142R	2147R
	2102	2008		2128R	2133R		2148R

	2103	2105R 2106 2107 2108		2129R	2134		2149R
R = Refresher POI event S = Event conducted using simulation							

4. CSP Maintain Table Events. Events in CSP Maintain Tables consist of events required for individuals to maintain proficiency in each Core Skill. To maintain Individual CSP, an individual must maintain a proficient status in all of the events listed in the CSP Maintain Table for that Core Skill. Communities shall consider the entire T&R to include event complexity, event conditions (day, night, ATC non-radar, and severe weather), R-coding, event chaining, event refresh, etc. when determining CSP Maintain requirements.

5. Events Required to Maintain Individual CSP. To maintain CSP in a core skill, an individual must maintain proficiency in all 2000 level T&R events listed for that core skill:

Table 2-2.--Individual CSP Maintain.

Individual CSP Maintain Table							
6493/METEM	FAS	ECF	EMB	MAP	MAD	SEC	SAM
T&R event requirements to maintain CSP	2100R	2105R	2120R 2121R 2122R	2125R 2126R 2127R 2128R 2129R	2131R 2132R 2133R	2142R	2145R 2146R 2147R 2148R 2149R
R = Refresher POI S = Event conducted using simulation							

203. INDIVIDUAL MISSION SKILL PROFICIENCY (MSP) REQUIREMENTS. A MSP crew consists of individuals representing each crew position who have achieved and currently maintain Individual MSP. In order to be considered proficient in a Mission Skill, an individual must attain and maintain proficiency in Mission Skill events as delineated in the below paragraphs.

1. MSP General Rules. The following rules apply when updating/developing Attain and Maintain MSP Tables:

a. All Mission Skills shall be represented in the Attain and Maintain MSP Tables.

b. All 3000 level events shall be listed in the Attain Table under the applicable Mission Skill.

c. All events in the Attain Table that are not listed in the Maintain Table shall be chained by event(s) in the Maintain Table unless the event(s) is not assigned a refresh interval (one time training requirement).

d. The Maintain table shall contain at least one event for each Mission Skill.

e. Events in the Maintain Table shall be R-coded (Refresher POI) events.

f. Events in the Mission Skills Attain and Maintain Tables may chain update events in the Core Skills Attain and Maintain Tables.

g. During a T&R review, SMEs shall consider the following regarding T&R events in the MSP Attain Table that are not chained by event(s) in the MSP Maintain table:

(1) Such events must not be assigned a refresh factor ('*' listed for refresh factor) or,

(2) Such events must be moved to the MSP Maintain Table or,

(3) Such events must be moved out of the Mission Skill phases (3000) to another phase (4000+) or,

(4) Such events must be deleted from the syllabus.

2. MSP Attain Table Events. Events in MSP Attain Tables consist of events required for individuals to initially attain proficiency in each Mission Skill. To attain Individual MSP, an individual must simultaneously have a proficient status in all of the events listed in the MSP Attain Table for that Mission Skill. All 3000 level Basic POI events shall be listed in the Attain Table under the applicable Mission Skill.

3. Events Required to Attain Individual MSP. To initially attain CSP in a Mission Skill, an individual must simultaneously have a proficient status in all 3000 level T&R events listed for that Mission Skill.

Table 2-3.--Individual MSP Attain.

Individual MSP Attain Table			
6493/METEM	ECF	EMB	MPP
T&R event requirements to attain MSP	3001	3110R	3120R
	3002		3121R
	3003		3122R
	3101		3123
	3102		3124
	3103R		3125
			3126R
R = Refresher POI event			
S = Event conducted using simulation			

4. MSP Maintain Table Events. Events in MSP Maintain Tables consist of events required for experienced individuals to maintain proficiency in each Mission Skill. To maintain Individual MSP, an individual must maintain a proficient status in all of the events listed in the MSP Maintain Table for that Mission Skill. Communities shall consider the entire T&R to include event complexity, event conditions (day, night, ATC non-radar, and severe weather), R-coding, event chaining, event refresh, etc. when determining MSP Maintain requirements.

5. Events Required to Maintain Individual MSP. To maintain MSP in a Mission Skill, an individual must maintain proficiency in all 3000 level T&R events listed for that Mission Skill:

Table 2-4.--Individual MSP Maintain.

Individual MSP Maintain Table			
6493/METEM	ECF	EMB	MPP
T&R event requirements to maintain CSP	3103R	3010R	3120R 3121R 3122R 3126R
R = Refresher POI S = Event conducted using simulation			

6. Individual Mission Skill Proficiency. Proficiency in a Mission Skill requires an individual to attain and maintain proficiency per T&R Mission Skill Attain and Maintain Tables. Mission Skill Attain and Maintain Tables shall be reviewed and updated as appropriate at each T&R conference.

204. INDIVIDUAL CORE PLUS SKILL PROFICIENCY REQUIREMENTS. Core Plus Skills are those events with a low probability of execution or success. Proficiency in Core Plus Skills is not normally required to obtain unit CSP or MSP however, Core Plus Skill proficiency requirements shall be listed in Attain/Maintain Tables to facilitate standardization. All 4000 phase Basic POI events shall be listed in an Attain Table under the applicable Core Plus Skill. Events in Core Plus Skill Maintain Tables consist of events required for experienced individuals to maintain proficiency in each Core Plus Skill.

1. Events Required to Attain Individual Proficiency in Core Plus Skills. Proficiency in Core Plus Skills is not required to obtain unit CSP. Training to Core Plus skills is at the discretion of the unit commanding officer. To initially attain proficiency in a Core Plus Skill, an individual must simultaneously have a proficient status in all T&R events listed for that Core Plus Skill:

Table 2-5.--Individual Core Plus Skill Attain.

Individual Core Plus Skills Attain Table	
6493/METEM	MPP
Core Plus T&R event requirements to Attain CSP	4100R
R = Refresher POI event S = Event conducted using simulation	

2. Events Required to Maintain individual proficiency in Core Plus Skills. To maintain proficiency in a Core Plus Skill, an individual must maintain proficiency in all T&R events listed in the table below for that Core Plus Skill:

Table 2-6.--Individual Core Plus Skill Maintain.

Individual Core Plus Skills Maintain Table	
6493/METEM	MPP

Core Plus T&R event requirements to maintain CSP	4100R
R = Refresher POI event S = Event conducted using simulation	

204. CERTIFICATIONS, QUALIFICATIONS AND DESIGNATIONS. All certification, qualification, and designation requirements and specific criteria to achieve them shall be delineated in community T&R manuals. Commanders may issue certification, qualification or designation letters when individual personnel complete applicable training requirements. A copy of these letters shall be included in section three of individual performance records per paragraph 203. Only after successfully completing qualification or designation requirements and being issued a qualification/designation letter signed by the commanding officer will an individual be considered qualified or designated. Do not confuse certifications with qualifications or designations as defined below.

1. Certification

a. A certification refers to the completion of an evaluation process conducted during syllabus event(s) by a designated instructor or authorized personnel for the purpose of ascertaining proficiency of a crewmember as a prerequisite to qualification or designation.

b. For Aviation Ground Communities, a certification serves to ascertain one-time proficiency evaluation for a given position. Commanders shall issue certification letters.

2. Qualification

a. A qualification is a status ('qualified' or 'not qualified') assigned to personnel based on demonstration of proficiency in a specific skill.

b. Individuals do not lose a qualification as a function of refresh factor for individual events. However, loss of proficiency (delinquent refresh factor) for all associated qualification events (events with measurable refresh factor) constitutes loss of that qualification. Re-qualification requires demonstration of proficiency and shall be achieved by successfully repeating all R-coded events associated with the respective qualification.

3. Designation

a. A designation is a status assigned to an individual based on leadership ability.

b. Designations are command specific and remain in effect until removed for cause or the individual is transferred to another command. T&R syllabi shall refer to the MAWTS-1 course catalog, NATOPS, and other applicable directives for instructor designation criteria.

(1) Designation Criteria. Aviation communities shall delineate community standardized criteria to achieve all designations in individual T&Rs. Designation criteria (to include workup/evaluation events) shall be evaluated (E-coded) events. Criteria for Instructor designations shall be delineated in the 5000 phase (Instructor Training); criteria for all other designations shall delineated in the 6000 phase. Community T&Rs may

stipulate re-designation criteria; if re-designation criteria are not delineated, re-designation is at the discretion of the commanding officer.

(2) Instructor Designations. Instructor designations are assigned to personnel based on ability to conduct ground and/or airborne instruction of a Core Skill or mission area. Instructor designations are designed to enhance standardization and safety while training unqualified personnel in specific skills. T&R instructor designation/re-designation requirements should be consistent with, and may reference instructor requirements listed in the MAWTS-1 Course Catalog, NATOPS, and other applicable directives.

4. Certification, Qualification and Designation Tables. The tables below delineate T&R events required to be completed to attain proficiency, and initial 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 Individual Performance Records (IPR). Loss of proficiency in all qualification events causes the associated qualification to be lost. Regaining a qualification requires completing all R-coded syllabus events associated with that qualification.

Table 2-7.--METEM Certification Events.

INDIVIDUAL CERTIFICATION REQUIREMENTS	
Certification	Certification Requirements
CPR	Attend CPR course every 1 to 2 years depending on class attended. OPNAVINST 5100.23F.

Table 2-8.--METEM Qualification Events.

Qualification	Qualification Requirements
GMT-6050	1000/2000 FAS stages
ECF-6051	2000 ECF stage, GMT-6050
EMB-6052	2000 EMB stage, GMT-6050, 3010R
MAP-6053	2000 MAP stage, ECF-6051, 3021R
MAD-6054	2000 MAD stage, 3020R, 3022, GMT-6050
SAM-6055	2000 SEC stage, 2000 SAM stage, GMT-6050
PMT-6056	3020R, 3021R, 3022, ECF-6051, MAP-6053, MAD-6064
MSUP-6057	PMT-6056, 2000-4000 phases

R = Refresher POI events required for re-qualification

Table 2-9.--METEM Designation Events.

Designation	Designation Requirements
AMT-6060	ECF-6051, EMB-6052, 2000 Phase
JMT-6061	AMT-6060, EMB-6052, MAP-6053, SAM-6055, PMT-6056, 3000 phase
MMT-6062	JMT-6061, MSUP-6057

205. PROGRAMS OF INSTRUCTION (POI)

1. General. A POI is a group of events within a syllabus than an individual is required to perform; a POI can be thought of as a subset of a T&R syllabus. There are four POI categories; Basic (B), Series Conversion (SC), Transition (T), and Refresher (R). Individuals are assigned to one POI at any given time. Events within a POI are annotated in both the event description and the T&R Syllabus Matrix with a 'B,' 'SC,' 'T,' or 'R'.

a. Basic (B). The POI prescribed for newly designated personnel.

b. Series Conversion (SC). The POI prescribed for personnel converting from a particular series of METOC system to a new series that has significantly different system characteristics e.g., MetMFR - MetMFR NEXGEN.

c. Transition (T). The POI prescribed for personnel changing aircraft/platform type per paragraph 202.

d. POI Use. 'B', 'SC' and 'T' POIs should include all training required to achieve an MOS if applicable (CNATRA and OPNAVINST 3710.7 training is understood and does not need to be listed). An individual is assigned to the 'B', 'SC' or 'T' POI of a T&R syllabus one time only, at the beginning of the individual's first fleet tour in a particular MOS. These POIs are similar in that they contain events an individual requires to initially attain proficiency in a MOS.

e. Refresher (R)

(1) After completion of a 'B', 'SC' or 'T' POI, the individual is assigned to the Refresher POI of that MOS syllabus, and remains in the Refresher POI throughout the individual's career while assigned to that MOS. The Refresher POI is unique in that it contains events required to regain and maintain proficiency in an MOS.

(2) The Refresher POI is prescribed for personnel returning to an operational force billet who were previously assigned and completed the B/T/SC POI of that MOS syllabus. Refresher syllabi account for previous experience and normally have fewer required 2000 through 4000 level training events than Basic POIs. Refresher POIs contain appropriate training events that an average experienced individual is required to complete to regain and maintain individual CSP in all T&R Core Skills. The Refresher POI is closely related to the individual CSP Maintain tables in that events in these tables must be in the Refresher POI. However, there may be Refresher events not included in the CSP Maintain table because a community may determine that in addition to events required for maintaining CSP there are events required to regain CSP in a Core Skill.

(3) If an individual loses proficiency in all events in a Core Skill or a Mission Skill, the individual is required to complete all R-coded events in that Core Skill or Mission Skill. For example, a community determines that six events are required to attain proficiency (2500-2505) and one event is required to maintain proficiency (2505R) in the Night Systems (NS) Core Skill (see figure 6-X). The community decides that three events are required to regain proficiency (2501R, 2502R, and 2505R) in the NS Core Skill. If an individual goes delinquent in NS-2505R, the individual is required to complete NS-2501R, NS-2502R, and NS-2505R to regain proficiency in the NS Core Skill.

2. Basic POI

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
1-32	Electronic Principles	Keesler AFB, MS
33-49	Meteorological Equipment Maintenance Technician	Keesler AFB, MS
50-75	Core Skill Training	Tactical Squadron
76-88	Mission Skill Training	Tactical Squadron
89-97	Core Plus Training	Tactical Squadron

3. POI for Refresher Training

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
1-16	Core Skill Training	Tactical Squadron
17-23	Mission Skill Training	Tactical Squadron
24-26	Core Plus Training	Tactical Squadron

4. POI for Formal Schools Instructor

<u>WEEKS</u>	<u>COURSE/PHASE</u>	<u>ACTIVITY</u>
1-5	Basic Instructor Course	81TRW USAF
6-33	Instructor Certification	(Course Supervisor) MARDET
N/A	Quarterly Evaluations	(Course Supervisor) MARDET

206. ACADEMIC TRAINING

1. Academic training shall be conducted for each level/stage of the syllabus. Where indicated, standardized academic training materials exist and may be obtained from the sponsoring activity.

2. External academic courses of instruction available to complete the syllabus are listed below: none

207. CORE SKILL INTRODUCTION PHASE

1. General. Realizing this manual is unclassified, DC AVN and G MCCDC encourage units to use the full range of current, newly developed and proven tactics for training. Currently, initial accession standards are met by the formal school at Keesler AFB, MS. The courses are Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM). The core skill introduction phase is designed for instructors and trainees to maximize training and syllabus support hours. An instructor shall evaluate all events annotated with an "E" per Aviation T&R Program Manual. The tracking of such events, stages and phases shall be entered in the individual training jacket or appropriate electronic software. This initial accession stage of training is vital to the way forward in the 6493 MOS.

2. Familiarization (FAM)

a. Purpose. To introduce core skills required to function within the USMC METEM community.

b. Crew Requirements. 2 JMT/FSI.

c. Ground/Academic Training. Academic training shall be conducted at the Center for Naval Aviation Technical Training Unit aboard Keesler Air Force Base, Mississippi. Currently, there is one pipeline for initial accession training for MOS 6493; The Electronic Principles (EP) and the Meteorological Equipment Maintenance (METEM) courses.

d. Total Training Events. 22 Events, 790.0 HOURS

FAM-1100 2.0 * E B N/A L (N)

Goal. Familiarization with electronic safety and first aid.

Requirements. Receive academic training on electronic safety and first aid.

- (1) Identify the general principles of hazards associated with electricity.
- (2) Identify emergency equipment to be used in case of electric shock.
- (3) Identify general electrical safety practices.
- (4) Identify basic facts about first aid for electrical shock.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1101 7.0 * E B N/A L

Goal. Familiarization with metric notation and electrical prefixes.

Requirements. Receive academic training on metric notation and electrical prefixes and perform math operations.

- (1) Given numbers, convert decimal to scientific notation and vice versa.
- (2) Given problems, perform math operations of numbers expressed in scientific notation.
- (3) Relate the principles of decimal numbers to electrical prefixes.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1102 29.0 * E T L

Goal. Familiarization with electronic test equipment.

Requirements. Receive academic training on electronic test equipment and perform electrical measurements.

- (1) Identify operating principles for digital and analog multimeters.
- (2) Conduct electrical measurements using analog and digital multimeters.
- (3) Identify operating principles for oscilloscopes.
- (4) Conduct electrical measurements using oscilloscopes.
- (5) Identify operating principles for signal/function generators.

FAM-1106	52.0	*	E	T	L
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Goal. Familiarization with power supplies.

Requirements. Receive academic training on power supplies and perform power supply troubleshooting.

- (1) Identify the operating principles of solid-state diodes.
- (2) Given a circuit, perform diode troubleshooting.
- (3) Identify the operating principles of power supply rectifiers.
- (4) Identify the operating principles of power supply filters.
- (5) Identify the operating principles of transistors.
- (6) Given a circuit, perform transistor troubleshooting.
- (7) Identify the operating principles of Zener diodes.
- (8) Identify the operating principles of voltage regulators.
- (9) Given a circuit, perform power supply troubleshooting.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1107	18.5	*	E	N/A	L
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Goal. Familiarization with amplifiers.

Requirements. Receive academic training on amplifiers.

- (1) Identify the operating principles of bipolar amplifier transistors.
- (2) Identify basic facts about amplifiers.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1108	18.0	*	E	N/A	L
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Goal. Familiarization with wave generating circuits.

Requirements. Receive academic training on wave generating circuits.

- (1) Identify the operating principles of oscillators.
- (2) Identify the operating principles of multivibrators.
- (3) Identify the operating principles of sawtooth wave generators.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1109	1.5	*	E	N/A	L
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Goal. Familiarization with special purpose devices.

Requirements. Receive academic training on special purpose devices.

- (1) Identify basic facts about LEDs.
- (2) Identify basic facts about LCDs.
- (3) Identify basic facts about Integrated Circuits (ICs).

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1110	3.0	*	E	N/A		L
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Goal. Familiarization with ESD/EMP/EMI.

Requirements. Receive academic training on ESD/EMP/EMI.

- (1) Identify the principles of ESD control.
- (2) Identify the principles of the effects of EMP/EMI.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1111	33.5	*	E	N/A		L
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Goal. Familiarization with digital logic.

Requirements. Receive academic training on digital logic and perform binary calculations.

- (1) Identify the principles of numbering systems conventions.
- (2) Given problems, perform binary math calculations.
- (3) Identify the operating principles of logic gates.
- (4) Identify the operating principles of digital logic circuits.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1112	28.5	*	E	T		L
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Goal. Familiarization with communication fundamentals.

Requirements. Receive academic training on communications and perform signal measurements.

- (1) Identify the principles of communication mediums.
- (2) Identify the principles of AM signals.
- (3) Given a circuit, measure AM signals.
- (4) Identify the principles of FM signals.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1113	15.0	*	E	N/A		L
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Goal. Familiarization with networking fundamentals.

Requirements. Receive academic training on networking fundamentals.

- (1) Identify basic facts about networks.
- (2) Identify the principles of network topologies.
- (3) Identify the principles of network architecture.

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1120	1.0	*	E	N/A	L
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Goal. Familiarization with Marine Corps MET structure.

Requirements. Receive academic training on and identify basic facts about the organization of Marine Corps MET.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1121	25.0	*	E	A, M	L
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Goal. Familiarization with MET equipment.

Requirements. Receive academic training on equipment currently employed by Marine Corps MET services and perform system op-checks.

- (1) Identify basic facts about the capabilities of MET systems.
- (2) Identify the operating principles of MET systems.
- (3) Identify the functional description/technical characteristics of MET systems.
- (4) Given a MET system, perform op-check.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1122	128.0	*	E	A, M	L
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Goal. Familiarization with surface meteorological sensing equipment.

Requirements. Receive academic training on the surface meteorological sensing equipment currently employed by Marine Corps MET services and perform system troubleshooting.

- (1) Identify functional description/technical characteristics of system components.
- (2) Identify the procedures for installation/configuration of the system.
- (3) Identify the principles of power distribution for the system.
- (4) Identify the principles of data flow for the system.
- (5) Given a failed system, perform troubleshooting procedures to determine the faulty LRU.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1123 115.0 * E M L

Goal. Familiarization with meteorological radar systems.

Requirements. Receive academic training on the tactical meteorological radar systems currently employed by Marine Corps METOC services and perform system troubleshooting.

- (1) Identify basic facts about Doppler radar theory.
- (2) Identify functional description/technical characteristics of system components.
- (3) Identify the principles of power distribution for the system.
- (4) Identify the principles of data flow for the system.
- (5) Given a failed system, perform troubleshooting procedures to determine the faulty LRU.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1124 35.0 * E M L

Goal. Familiarization with meteorological satellite receiving systems.

Requirements. Receive academic training on the tactical meteorological satellite receiving systems currently employed by Marine Corps MET services and perform system troubleshooting.

- (1) Identify basic facts about meteorological satellites.
- (2) Identify the procedures for installation/configuration of the system.
- (3) Identify functional description/technical characteristics of system components.
- (4) Identify the principles of power distribution for the system.
- (5) Identify the principles of data flow for the system.
- (6) Given a failed system, perform troubleshooting procedures to determine the faulty LRU.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1125 28.5 * E M L

Goal. Familiarization with upper-air measuring equipment.

Requirements. Receive academic training on the upper-air measuring systems currently employed by Marine Corps MET services and perform system troubleshooting.

- (1) Identify functional description/technical characteristics of system components.
- (2) Identify the principles of power distribution for the system.
- (3) Identify the principles of data flow for the system.

(4) Given a failed system, perform troubleshooting procedures to determine the faulty LRU.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1126	67.0	*	E	M	L
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Goal. Familiarization with radio communications equipment.

Requirements. Receive academic training on the radio communications systems currently employed by Marine Corps MET services and perform system troubleshooting.

- (1) Identify functional description/technical characteristics of system components.
- (2) Identify the principles of power distribution for the system.
- (3) Identify the principles of signal flow for the system.
- (4) Given a failed system, perform troubleshooting procedures to determine the faulty LRU.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

FAM-1127	79.0	*	E	M	L
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Goal. Familiarization with meteorological computer and network equipment.

Requirements. Receive academic training on the meteorological computer and network systems currently employed by Marine Corps MET services and perform system troubleshooting.

- (1) Identify basic facts about computer hardware.
- (2) Identify the procedures for installation/configuration of computer systems.
- (3) Identify functional description/technical characteristics of computer hardware.
- (4) Identify basic facts about MET software.
- (5) Identify functional description/technical characteristics of network components.
- (6) Identify the procedures for configuration of the system LAN.
- (7) Identify the principles of data flow between LAN/WAN components.
- (8) Given a failed system, perform troubleshooting procedures to determine the faulty LRU.

Prerequisite. FAM 1100-1113

Performance Standard. Complete written and/or performance tests in accordance with the established proficiency standard.

208. CORE SKILL PHASE

1. General. This phase of training deals with Core Skills that are specific mission-related task areas that support MET METL's and consist of like T&R events. 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 includes Core Skill training essential to wartime employment of the unit. Training at this level enhances proficiency from fundamental understanding of Core Skills to proficiency in basic required Core Skills. Individuals should normally complete this phase of training with the first year of assignment to a unit.

2. First Aid and Safety (FAS)

a. Purpose. To increase and maintain safety awareness in accordance with precautions and procedures to ensure the safety of personnel and equipment.

b. Requirements

(1) Completion of Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM) courses is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be competent at personal and equipment safety.

c. Ground/Academic Training. Local mission and operating procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 4 Events, 11.5 Hours

FAS-2100	8.0	R	365	E	G,M,N	L
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Goal. Attain CPR certification.

Requirement. Attend and receive CPR certificate from local CPR instructor or Medical personnel through accepted course.

Performance Standard. Evaluation of knowledge may be obtained through oral, practical application, and written exam.

References. OPNAVINST 5100.23F, NAVAIR 01-1A-35, OPNAVINST 5100.19D B-7/1

FAS-2101	0.5	*		E	G,M	L
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Goal. Demonstrate proper use of Personal Protective Equipment (PPE)

Requirement. Demonstrate the proper use of appropriate PPE.

Performance Standard. In accordance with OPNAVINST 5100.23F properly demonstrate the use of PPE without error in a specified situation.

External Syllabus Support. Local unit safety SOP.

References. OPNAVINST 5100.23F

FAS-2102 2.0 * E G,M L

Goal. Demonstrate proper utilization of the Material Safety Data Sheet (MSDS).

Requirement. Given an MSDS identify the following:

- (1) General Information.
- (2) Composition of Ingredients.
- (3) Toxicology and Health Information.
- (4) Emergency First Aid.
- (5) Fire and Explosion Hazard.
- (6) Accidental Release Measures.
- (7) Storage and Handling.
- (8) Exposure Controls and Personal Protection.
- (9) Physical and Chemical Properties.
- (10) Stability and Reactivity.
- (11) Ecological Information.
- (12) Waste Disposal.
- (13) Transportation Information.
- (14) Regulatory Information.

Performance Standard. Given a substance and the corresponding MSDS identify all potential hazards.

External Syllabus Support. Local HAZMAT SOP

References. MCO 4450.12A, code of federal regulations 29, www.msds.com

FAS-2103 1.0 * E G,M,N L

Goal. Demonstrate proper utilization of lock-out/tag-out procedures.

Requirement. Properly demonstrate the use of lock-out/tag-out.

Performance Standard. In accordance with OPNAVINST 5100.23F properly demonstrate the use of lockout/tag out procedures without error.

External Syllabus Support. Maintenance Requirement Card (MRC)

References. OPNAVINST 5100.23F

3. Electronic Fundamentals (ECF)

a. Purpose. To complete basic electronic fundamental courses.

b. General

(1) Completion of Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM) courses is required prior to commencing this

stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be competent at basic electronic fundamentals.

c. Ground/Academic Training. Course procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 4 Events, 69.0 Hours

ECF-2104	6.0	730	R	E	G,M,N	L
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Goal. Demonstrate proficiency in test equipment.

Requirement. Complete training in test equipment.

Performance Standard. In accordance with established proficiency standard.

External Syllabus Support. MCI-287, Introduction to Test Equipment

References. ULSS

ECF-2105	32.0	*		E	G,M,N	L
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Goal. Demonstrate proficiency in RF wave propagation.

Requirement. Complete training in RF wave propagation.

Performance Standard. In accordance with established proficiency standard.

External Syllabus Support. MCI-2515, Antenna Construction and Propagation of Radio Waves.

ECF-2106	15.0	*		E	G,M,N	L
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Goal. Demonstrate proficiency in AC and DC Theory.

Requirement. Complete training in:

- (1) Matter
- (2) Energy
- (3) Direct Current
- (4) Alternating Current
- (5) Transformers

Performance Standard. In accordance with established proficiency standard.

External Syllabus Support. NEETS Mod 1 (14173), Introduction to Matter, Energy, and Direct Current. NEETS Mod 2 (14174), Introduction to Alternating Current and Transformers. Modules are located on NKO web site.

ECF-2107 16.0 * E G,M,N L

Goal. Demonstrate proficiency electrical applications.

Requirement. Complete training in:

- (1) Electrical Conductors
- (2) Wiring Techniques
- (3) Schematic Reading

Performance Standard. In accordance with established proficiency standard.

External Syllabus Support. NEETS Mod 4 (14176), Introduction to Electrical Conductors, Wiring Techniques, and Schematic Reading.

4. Embarkation and Debarkation (EMB)

a. Purpose. To become proficient at embarkation and debarkation procedures to include: site survey and frequency management.

b. General

(1) Completion of Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM) courses is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel will be proficient at all embarkation/debarkation procedures and activities.

c. Ground/Academic Training. Event procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 3 Events, 80.0 Hours

EMB-2120 16.0 180 R E G,M,N L/S

Goal. Demonstrate proficiency with deployment requirements and procedures.

Requirement. Given a simulated MET deployment scenario, perform the following tasks per the LOI:

- (1) Identify embarkation requirements.
- (2) Identify communication requirements.
- (3) Identify MET support requirements.
- (4) Identify personnel requirements.
- (5) Identify equipment support procedures.

Performance Standard. Task must be completed per applicable references.

References. MetMF(R) Embarkation Guide(SPAWAR) and Local Embark SOP.

EMB-2121 16.0 180 R E G,M,N L

Goal. Familiarize the Marine with the process of conducting a site survey for the deployment of tactical meteorological equipment.

Requirement. Given appropriate reference identify conditions relevant to site selection:

- (1) Terrain Requirements
- (2) Physical Blocking Obstructions
- (3) Radio Frequency Interference
- (4) Utility Requirements
- (5) Environmental Considerations
- (6) External Equipment
- (7) Internal Equipment

Performance Standard. Given a specified location, determine the suitability of site to IAW the appropriate reference.

References. ULSS, IAW EM000-AX-OMI-B10 (Systems Manual), Embarkation Guide.

EMB-2122 48.0 365 R E G,M,N L/S

Goal. Embarkation of meteorological equipment.

Requirement. Embark/Debark meteorological equipment to a designated area. Perform the following:

- (1) Proper pack up
- (2) Supervise lift
- (3) Transport classified materials
- (4) Unpack at a designated area
- (5) Configure system to operational status

Performance Standard. Successful embarkation procedures conducted in compliance with applicable references.

External Syllabus Support. Heavy equipment and transport.

References. ULSS, IAW EM000-AX-OMI-B10 (Systems Manual), Embarkation Guide.

5. Maintenance Procedures (MAP)

a. Purpose. To become proficient in order to conduct corrective and preventative maintenance.

b. General

(1) Completion of Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM) courses is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be proficient in basic maintenance procedures.

c. Ground/Academic Training. Event procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 5 Events, 44.0 Hours

MAP-2125	8.0	365	R	E	G,M,N	L/S
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Goal. Demonstrate proficiency in MET equipment theory of operations.

Requirement. With the aid of applicable technical publications, describe theory of operation for unit specific MET systems/subsystems.

- (1) ASOS
- (2) AN/TMQ-44A
- (3) AN/UMK-4

Performance Standard. Complete the requirement without SME assistance and IAW applicable references.

References. Local publications library.

MAP-2126	8.0	365	R	E	G,M,N	L/S
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Goal. Demonstrate proficiency in MET equipment operational checks.

Requirement. With the aid of applicable technical publications and BITE, determine operational status for unit specific MET systems/subsystems.

- (1) ASOS
- (2) AN/TMQ-44A
- (3) AN/UMK-4

Performance Standard. Complete the requirement without SME assistance and IAW applicable references.

Prerequisite. MAP-2125

References. Local Publications library.

MAP-2127	12.0	365	R	E	G,M,N	L/S
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Goal. Demonstrate proficiency in MET equipment remove and replace procedures.

Requirement. With the aid of applicable technical publications, tools, and PPE, remove and replace Lowest Replaceable Unit (LRU) for unit specific MET systems/subsystems.

- (1) ASOS
- (2) AN/TMQ-44A
- (3) AN/UMK-4

Performance Standard. Complete the requirement without SME assistance and IAW applicable references.

Prerequisite. FAS STAGE, MAP-2126

References. Local Publications library.

MAP-2128	8.0	180	R	E	G,M,N	L/S
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Goal. Introduction to the performance of preventive maintenance.

Requirement. With the aid of applicable technical publications, tools, and test equipment, identify procedures in the performance of preventive maintenance/alignments for unit specific MET systems/subsystems.

ASOS

Performance Standard. Complete the requirement without assistance and IAW applicable references.

Prerequisite. MAP-2127

References. NAVSEA 4790.8B/applicable MRC

MAP-2129	8.0	365	R	E	G,M,N	L/S
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Goal. Introduction to the performance of preventive maintenance.

Requirement. With the aid of applicable technical publications, tools, and test equipment, identify procedures in the performance of preventive maintenance/alignments for unit specific MET systems/subsystems.

AN/TMQ-44A

Performance Standard. Complete the requirement without assistance and IAW applicable references.

Prerequisite. MAP-2127

References. NAVSEA 4790.8B/applicable MRC

6. Maintenance Administration (MAD)

a. Purpose. To become proficient in maintenance administrative duties to include: documentation, and the reporting of all corrective maintenance, preventative maintenance, and the acquisition of required parts and materials.

b. General

(1) Completion of Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM) courses is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be proficient in basic maintenance administrative procedures.

c. Ground/Academic Training. Event procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 5 Events, 17.0 Hours

MAD-2130	2.0	*	E	G,M,N	L
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Goal. Describe functions and capabilities of MALS specific support sections.

Requirement. Basic understanding of:

- (1) Supply Requisition Divisions (SRD)
- (2) Supply Services Divisions (SSD)
- (3) Supply Maintenance Division (SMD)
- (4) Supply Accounting Division (SAD)
- (5) Consumable Materials Division (CMD)
- (6) Prepare Package and Processing/Deployed Support Unit(PPP/DSU)
- (7) Administrative Information Systems Division (AISD)
- (8) MALS work center 990
- (9) Repairable Maintenance Division(RMD)
- (10) MALS work center 670 Calibrations (CAL)
- (11) Hazardous Materials (HAZ)

Performance Standard. In accordance with unit references provide a general description and function of a specified MALS section without error.

References: Local SOP's

MAD-2131	4.0	365	R E	G,M,N	L
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Goal. Develop a functional understanding of the components which make up the requisition process in order to conduct a supply requisition.

Requirement. Basic understanding of:

- (1) Military Standard Requisitioning and Issue Procedures (MILSTRIP)
- (2) Allowance Parts List (APL)

Performance Standard. In accordance with below stated reference, and in compliance with local SOP conduct a complete supply requisition.

Prerequisite. MAD-2130

References: NAVSUP P-409 - MILSTRIP/MILSTRAP Desk Guide, APL, and/or Unit Supply SOP. <https://www.onetouch.navy.mil/ots/>

MAD-2132 3.0 365 R E G,M,N L

Goal. Develop a functional understanding of the references and governing documents in order to properly conduct maintenance documentation.

Requirement. Basic understanding of:

- (1) Casualty Report (CASREP)
- (2) OPNAV 4790/60 Maintenance Action Form (VIDS/MAF)
- (3) Equipment Change/Updates (1149)

Performance Standard. In accordance with the references complete required maintenance documentation.

References. OPNAV 4790.2_, NWP 1-03.3 CH 2

MAD-2133 2.0 365 R E G,M,N L/S

Goal. Introduction to scheduling of preventive maintenance scheduling tools/media.

Requirement. With the aid of applicable maintenance scheduling software/applications, identify multiplicities of preventive maintenance for unit specific METOC systems/subsystems.

- (1) ASOS
- (2) AN/TMQ-44A
- (3) AN/UMK-4

Performance Standard. Identify all applicable documentation associated with preventive maintenance.

References. NAVSEA 4790.8B

MAD-2134 6.0 * E G,M,N L

Goal. Develop a functional understanding of the SKED program and its capabilities.

Requirement. Properly utilize SKED program to view, print, and submit reports.

- (1) Obtain work center password
- (2) Log in
- (3) View, print, and submit 13 week report
- (4) View, print, and submit Quarterly report

Performance Standard. Without the aid of reference perform requirements listed above without error.

Prerequisite. MAD-2133

References. OPNAV 4790.2

7. Security (SEC)

- a. Purpose. To ensure governing policies are followed relating to

information, personnel, physical, and communications security.

b. General

(1) Completion of Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM) courses is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be proficient at the governing policies and procedures related to information, personnel, physical, and communications security.

c. Ground/Academic Training. Event procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 2 Events, 6.0 Hours

SEC-2140	3.0	*	E	G,M,N	L
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Goal. Introduction to Department of the Navy Security Procedures.

Requirement. Provide a verbal overview of the local security procedures.

Performance Standard. Demonstrate knowledge, verbally or in writing, of all local security procedures.

References. Local Security SOP, SECNAVINST 5510.30/36, MCO P5510.18

SEC-2141	3.0	365	R E	G,M,N	L
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Goal. Demonstrate comprehension of regulations, orders and instructions governing classified material.

Requirement. Identify regulations, orders and instructions governing security and state the general content of each.

Performance Standard. Demonstrate knowledge, verbally or in writing, of all applicable orders.

Prerequisite. SEC-2140

References. Local Security SOP, SECNAVINST 5510.30/36, MCO P5510.18, CMS-21B

8. System Administration (SAM)

a. Purpose. To become proficient in software installation, configuration, and system and network maintenance/management procedures.

b. General

(1) Completion of Electronic Principles (EP) and Meteorological Equipment Maintenance (METEM) courses is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be proficient in software installation, configuration, and system and network maintenance/management procedures.

c. Ground/Academic Training. Event procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 5 Events, 11.0 Hours

SAM-2145	2.0	365	R	E	G,M,N	L
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Goal. Demonstrate proficiency in the installation, removal, and configuration of operating systems and applicable software on a UNIX/LINUX platform.

Requirement. Complete procedures IAW the reference.

Performance Standard. Without SME assistance, and IAW the reference perform requirements listed above without error.

Prerequisite. SEC 2000 Stage.

Reference. EM000-AX-SAM-01A - Systems Administration Manual (SAM)

SAM-2146	4.0	365	R	E	G,M,N	L
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Goal. Demonstrate proficiency in the installation, removal, and configuration of operating systems and applicable software on a Windows platform.

Requirement. Complete procedures IAW the reference.

Performance Standard. Without SME assistance, and IAW the reference perform requirements listed above without error.

Prerequisite. SEC 2000 Stage.

Reference. EM000-AX-SAM-01A - (SAM)

SAM-2147	1.0	365	R	E	G,M,N	L
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Goal. Demonstrate proficiency in administrative/user/FTP account management.

Requirement. Complete procedures IAW the reference.

Performance Standard. Without SME assistance, and IAW the reference perform requirements listed above without error.

Prerequisite. SEC 2000 Stage.

Reference: EM000-AX-SAM-01A - (SAM)

SAM-2148 2.0 365 R E G,M,N L

Goal. Demonstrate proficiency in network configuration.

Requirement. Complete the below listed procedures IAW the reference.

- (1) IP/CONFIG
- (2) FTP/File Sharing
- (3) Host Table
- (4) Virtual File System

Performance Standard. Without SME assistance, and IAW the reference perform requirements listed above without error.

Prerequisite. SEC 2000 Stage.

Reference. EM000-AX-SAM-01A - (SAM)

SAM-2149 2.0 365 R E G,M,N L

Goal. Demonstrate proficiency in system administrator maintenance.

Requirement. Complete procedures IAW the reference.

- (1) System Updates/Upgrades
- (2) System Restore/Backup

Performance Standard. Without SME assistance, and IAW the reference perform requirements listed above without error.

Prerequisite. SEC 2000 Stage.

Reference. EM000-AX-SAM-01A - (SAM)

209. MISSION SKILL PHASE

1. General. This phase contains advanced Core Skill training. It increases proficiency in basic Core Skills and develops mission-level leadership that leads to combat qualifications and leadership designations. Crews proficient in this phase of training should be capable of planning/leading/directing flights of numerous aircraft in a contingency operation or crews within command and control or aviation ground support agencies.

2. Embarkation and Debarkation (EMB)

a. Purpose. To perform embarkation and debarkation procedures of meteorological equipment.

b. General

(1) Completion of the Core Skill Phase is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel will be proficient and able to complete all embarkation/debarkation procedures and activities.

c. Ground/Academic Training. Event procedures will dictate academic training required to support events. Local commanders shall review academic

periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 1 Event, 48 Hours

EMB-3110	48.0	365	R	E	G,M,N	L
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Goal. Complete embarkation of meteorological equipment to a local or forward deployed site.

Requirement. Embark/Debarck meteorological equipment to a designated area. Perform the following:

- (1) Proper pack up
- (2) Supervise lift
- (3) Transport classified materials
- (4) Unpack at a designated area
- (5) Configure system to operational status

Performance Standard. Successful embarkation procedures conducted in compliance with applicable references.

External Support Syllabus. Heavy equipment and transport.

References. MetMF(R) Embarkation Guide, SPAWARS EM00-AX-SUP-B2A

3. Maintenance Policies and Procedures(MPP)

a. Purpose. To demonstrate proficiency in generating and completing preventive/corrective maintenance, maintenance reports, and documentation.

b. General

(1) Completion of the Core Skill Phase is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be proficient in preventive/corrective maintenance, maintenance reports, and documentation.

c. Ground/Academic Training. Local mission and operating procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 7 Events, 46.0 Hours

MPP-3120	10.0	365	R	E	G,M,N	L
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Goal. Demonstrate proficiency utilizing the SKED program and its capabilities.

Requirement. Properly utilize SKED program to view, print, and submit reports.

- (1) Create a work center
- (2) Log in

- (3) Create, view, print, and submit 13 week report
- (4) Create, view, print, and submit quarterly report
- (5) Create, view, print, and submit annual report
- (6) Implement force revision
- (7) Assign maintenance responsibilities

Performance Standard. With the aid of reference perform requirements listed above without error.

Prerequisite. MAD-2134

References. OPNAV 4790.2

MPP-3121	8.0	365	R	E	G,M,N	L/S
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Goal. Demonstrate proficiency in MET equipment preventive maintenance.

Requirement. With the aid of applicable technical publications, tools, and test equipment, perform preventive maintenance/alignments for unit specific MET systems/subsystems.

ASOS

Performance Standard. Complete the requirement without SME assistance and IAW applicable references.

Prerequisite. MAP-2128

References. NAVSEA 4790.8B

MPP-3122	8.0	365	R	E	G,M,N	L/S
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Goal. Demonstrate proficiency in MET equipment preventive maintenance.

Requirement. With the aid of applicable technical publications, tools, and test equipment, perform preventive maintenance/alignments for unit specific MET systems/subsystems.

AN/TMQ-44A

Performance Standard. Complete the requirement without SME assistance and IAW applicable references.

Prerequisite. MAP-2129

References. NAVSEA 4790.8B

MPP-3123	8.0	365	E	G,M,N	L
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Goal. Demonstrate proficiency in properly generating and/or archive maintenance documentation.

Requirement. Generate and/ or conduct the following:
 (1) Casualty Report (CASREP)
 (2) OPNAV 4790/60/Maintenance Action Form(VIDS/MAF)

(3) Complete Equipment Change/Updates

Performance Standard. In accordance with OPNAV 4790.2_ complete required maintenance documentation.

Prerequisite. MAD-2132

References. OPNAV 4790.2_, NWP 1-03.3 CH 2

MPP-3124	4.0	365	E	N/A	L
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Goal. Manage Test Equipment.

Requirement. Manage inventory and calibration schedule of test equipment.

- (1) Order required test equipment
- (2) Inventory test equipment
- (3) Obtain appropriate reports from 670.
- (4) Schedule turn in dates for test equipment.
- (5) Reconcile equipment.

Performance Standard. With the aid of reference and given appropriate test equipment demonstrate proper knowledge of managing test equipment.

Prerequisite. ECF-2106

References. ULSS

MPP-3125	4.0	365	E	N/A	L
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Goal. Manage Publication library.

Requirement. Manage, inventory, and update publication library.

- (1) Inventory
- (2) Update
- (3) Order
- (4) Maintain

Performance Standard. With the aid of reference demonstrate proper knowledge and proficiency in managing a publications library by producing accurate records.

References. Systems Manual Table 1-2 (METMFR)

MPP-3126	4.0	R	365	E	N/A	L
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Goal. Manage required tool inventory.

Requirement. Manage, inventory, and maintain tools for METOC equipment maintenance.

- (1) Order appropriate tools
- (2) Inventory appropriate tools
- (3) Maintain appropriate tools.

Performance Standard. With the aid of reference and given appropriate tools demonstrate proper knowledge of managing tools for METOC equipment maintenance.

References. ULSS

210. CORE PLUS PHASE

1. General. This phase contains 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. 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, fleet 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.

2. Maintenance Policies and Procedures (MPP)

a. Purpose. To demonstrate proficiency in generating and completing preventive/corrective maintenance, maintenance reports, and documentation.

b. General

(1) Completion of Mission Skill Phase is required prior to commencing this stage of training.

(2) Upon completion of this stage of training, METEM personnel shall be completely proficient in preventive/corrective maintenance, maintenance reports, and documentation.

c. Ground/Academic Training. Local mission and operating procedures will dictate academic training required to support events. Local commanders shall review academic periods of instruction for applicability and content and utilize Academic Support Packages (ASP) when appropriate.

d. Total Training Events. 1 Event, 2.0 Hours

MPP-4100 2.0 R 730 E N/A L/S

Goal. Demonstrate knowledge of minor structural repair for a Mobile Facility.

Requirement. Properly repair minor structural damage on a Mobile Facility:

- (1) Identify and assess structural damage.
- (2) Acquire necessary materials for repair from supporting MALs.

- (3) Repair Damage.
- (4) Pass inspection from approved container inspector.

Performance Standard. With the aid of reference complete repair(s) and pass inspection.

External Syllabus Support. Local MALS work center 990.

References: OPNAV 4790.2

211. INSTRUCTOR TRAINING PHASE

1. General. 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.

2. Formal Schools Instructor (FSI)

a. Purpose. To prepare personnel to become instructors at METEM formal schools.

b. General

(1) Administrative Notes. Training shall be conducted at Keesler, Air Force Base, Mississippi. Course number for the Basic Instructor Course (BIC) is E3AIR3S200.

(2) Prerequisite

- (a) JMT Designation with 3 years of operational METEM experience.
- (b) Rank of Sergeant through Gunnery Sergeant.
- (c) Complete the Basic Instructor Course POI.

(3) Refresher Training. Refresher events shall be completed quarterly or when assigned by the course supervisor.

(4) Stage End Performance. Upon completion of this stage, personnel shall have knowledge of techniques of military instruction and be eligible for qualification as a Formal Schools Instructor.

c. Crew Requirements. Designated as a JMT and qualified as Formal Schools Instructor (FSI).

d. Academic Training. Academic training events are graded and tracked at the administering unit. Supplemental training events and training packages are required.

e. Total Training Events. 3 Events, 1248.0 Hours

FSI-5000	150.0	E	N/A	L
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Goal. Attend BIC.

Requirement. Complete BIC or refresher BIC.

Performance Standards. IAW the course's established proficiency

standard.

Prerequisite. JMT Designation with 3 years operational METEM experience. Rank of Sergeant through Gunnery Sergeant.

FSI-5001	1096.0		E	N/A		L
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Goal. Complete instructor certification process.

Requirement. Complete the following:

- (1) Observe course curriculum.
- (2) Pass required tests and progress checks.
- (3) Instruct under supervision.
- (4) Successful qualification/certification.

Performance Standards. Achieve 95% or greater on all measurements and progress checks.

Prerequisite. FSI-5000.

FSI-5002	2.0	90 R	E	N/A		L
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Goal. Complete quarterly evaluations.

Requirement. Successfully complete quarterly evaluations testing and receive satisfactory instructor evaluations.

Performance Standards. Achieve a satisfactory rating during the evaluation for any given period of instruction.

Prerequisite. FSI-5001.

212. REQUIREMENTS, QUALIFICATIONS, AND DESIGNATIONS PHASE

1. General. This phase contains all other syllabus events and special interest tracking codes that do not neatly 'fit' into the above phases and is designed to facilitate training management. The 6000 phase contains standardized combat leadership evaluation events. This phase often contains event requirements not mandated by the T&R program such as NATOPS. RQD codes are not events but codes used to facilitate community training management that may be used in the 6000 level if M-SHARP does not otherwise handle the specific instance that the community wishes to track. For example, RQD codes may be established to monitor execution of specific instances of weather events, specific exercises, etc. M-SHARP functionality eliminates the need for tracking codes related to the possession of qualifications, designations, and certifications. All of these can be logged and reported within M-SHARP and therefore shall not be authorized.

2. Skill Enhancement Training (SET)

a. Purpose. To provide METEM requirements for progression within the occupational specialty. Documentation of training events shall be completed and reported in training management software MSHARP and local training jackets.

b. General. Academic events do not count towards combat readiness percentage (core skill proficiency); however, every attempt shall be made to

complete all required events at appropriate levels of training.

c. Academic Training. Correspondence courses aid to further enhance individual knowledge base.

d. Total Training Events. 3 Events 280.0 Hours

SET-6000	80.0	E		L
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Goal. Attend National Weather Service Automated Surface Observation Course.

Requirement. Complete ASOS maintenance course.

Performance Standards. Achieve ASOS certification.

SET-6001	120.0	E		L
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Goal. Attend National Weather Service Open Principal User Processor (OPUP) Maintenance course.

Requirement. Complete OPUP maintenance course.

Performance Standards. Achieve an OPUP Certification.

SET-6002	80.0	E		L
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Goal. Attend Unix/Linux administrator course.

Requirement. Complete Unix/Linux administrator course.

Performance Standards. IAW the course's established proficiency standard.

3. MET Doctrine (MDN)

a. Purpose. To demonstrate familiarity with the Marine Corps MET support architecture, missions and local operating procedures.

b. General. 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.

c. Ground/Academic Training. Academic training syllabus shall be developed and approved by the MWSG MET officer prior to implementation. Checklists contained within this Manual are provided to ensure comprehensive and cohesive training within the MET community. Local mission and operating procedures will dictate the academic training in support of the events. Local MET commanders shall annually review academic periods of instruction for applicability and content.

d. Total Training Events. 2 Events, 3.0 Hours

MDN-6021	2.0	E	N/A	L
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Goal. MET support architecture comprehension.

Requirement. Receive training on the components, billets, equipment and capabilities that comprise the Marine Corps MET support

architecture. State and discuss the missions, composition, equipment and capabilities of the following MET support unit/billets:

- (1) MCAS/MCAF MET support.
- (2) Marine Wing Support Group (MWSG).
- (3) Marine Expeditionary Force (MEF).
- (4) Intel Bn.
- (5) Marine Wing Support Squadron (MWSS) METOC Service Section.
- (6) Staff METOC Officer (SMO).
- (7) Joint METOC Officer (JWO).
- (8) Joint MET Forecast Unit (JMFU).
- (9) ACE METOC Officer (ACE METOCO).
- (10) Mobile Meteorological Facility Replacement (MetMF(R)).
- (11) NITES IV.

Performance Standard. Verbally or in writing, identify the components, billets, units supported, and equipment inherent to each support element and capabilities of the billets/components listed above without error.

MDN-6022	1.0	E	N/A	L
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Goal. MET mission comprehension.

Requirement. Review MCWP 3-35.7 and SOP with Master Analyst Instructor (MAI). State the mission and composition of each echelon of MAGTF MET support.

- (1) Marine Corps MET community.
- (2) Local MET mission.
- (3) Apprentice MET Analyst mission.
- (4) Airfield Operations.
- (5) Marine Corps Aviation.
- (6) Deployable MET units.
- (7) MWSS.
- (8) MST.
- (9) Intel Bn.

Performance Standard. Define the mission of the above listed elements without error.

Prerequisite. Academic training. Read and comprehend MCWP 3-35.7 and SOP.

4. Qualifications

a. Purpose. To provide training tracking codes for enlisted METEM qualifications.

b. General. This portion of the training syllabus is comprised of requirements for progression within MOS 6493. Documentation of training events shall be completed and reported in current T&R tracking software (MSHARP) as well as local training jackets. The appointment of a qualification shall be determined by the recommendation of local JMT or MMT to the local OIC or highest convening authority.

c. Combat Readiness Percentage. The events in this stage are not associated with combat readiness percentages. Qualification events are utilized to track unit core skill proficiency.

d. Total Training Events. 8 Events, 8 Hours

GMT-6050	1.0	E	N/A	L
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Goal. Qualify as General Maintenance Technician.

Requirement. Show competence in general electronic principles and complete the required prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite. 1000 phase, 2000 FAS stage.

ECF-6051	1.0	E	N/A	L
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Goal. Qualify in electronic fundamentals.

Requirement. Show competence in general electronic fundamentals and complete the required prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite. GMT-6050, 2000 ECF stage.

EMB-6052	1.0	E	N/A	L
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Goal. Qualify in embarkation.

Requirement. Show competence in general embarkation procedures and complete the required prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite. GMT-6050, 2000 EMB stage, EMB-3010R.

MAP-6053	1.0	E	N/A	L
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Goal. Qualify in maintenance procedures.

Requirement. Show competence in general maintenance procedures and complete the required prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite. 2000 MAP stage, ECF-6051, MPP-3021R.

MAD-6054	1.0	E	N/A	L
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Goal. Qualify in maintenance administration.

Requirement. Show competence in general maintenance administration

and complete the required prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite. GMT-6050, 2000 MAD stage, MPP-3020R, MPP-3022.

SAM-6055	1.0	E	N/A		L
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Goal. Qualify in system administration.

Requirement. Show competence in general system administration and complete the required prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite GMT-6050, 2000 SEC and SAM stages.

PMT-6056	1.0	E	N/A		L
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Goal. Qualify as Preventative Maintenance Technician.

Requirement. Show competence in preventative maintenance procedures and complete the required prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite. ECF-6051, MAP-6053, MAD-6054, MPP-3020R, MPP-3021R, MPP-3022.

MSUP-6057	1.0	E	N/A		L
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Goal. Qualify as Maintenance Supervisor.

Requirement. Demonstrate proficiency in all aspects of maintenance supervision to include all documentation. Complete the prerequisites.

Performance Standards. Must be in compliance with applicable orders and directives, and local and higher echelon personnel programs.

Prerequisite. PMT-6056, 2000-4000 stages.

5. Designations

a. Purpose. To provide training tracking codes for enlisted METEM Technician designations.

b. General. This portion of the training syllabus is comprised of requirements for progression within MOS 6493. Documentation of training events shall be completed and reported in current T&R tracking software (MSHARP) as well as local training jackets. The appointment of a designation shall be determined by the recommendation of local JMT or MMT to the local OIC or highest convening authority.

c. Combat Readiness Percentage. The events in this stage are not associated with combat readiness percentages. Designation events are utilized to track unit core skill proficiency.

d. Total Training Events. 3 Events, 3 Hours

AMT-6060 1.0 E

Goal. Attain Apprentice METEM Technician(AMT) designation.

Requirement. The JMT/MMT shall assess the individual's knowledge of Core Skill Basic events through practical applications and verbal or written response to questions. Upon successful completion of event, JMT/MMT shall recommend individual to local OIC as an Apprentice METEM Technician.

Performance Standards. Comprehend materials contained in events and respond to verbal or written questions in a clear and concise manner to be recommended for designation as an AMT.

Prerequisite. ECF-6051, EMB-6052, 2000 phase.

JMT-6061 1.0 E

Goal. Complete designation checklist for a Journeyman METEM Technician (JMT).

Requirement. The JMT/MMT shall assess the individual's knowledge of Mission Skill events through practical applications and verbal or written response to questions. Upon successful completion of event, JMT/MMT shall recommend individual to local OIC as an Journeyman METEM Technician.

Performance Standard. Comprehend materials contained in events and respond to verbal or written questions in a clear and concise manner to be recommended for designation as an JMT.

Prerequisite. AMT-6060, MAP-6053, SAM-6055, PMT-6056.

MMT-6062 1.0 E

Goal. Attain Master METEM Technician (MMT).

Requirement. The MMT/OIC shall assess the individual's knowledge of Core Plus events through practical applications and verbal or written response to questions. Upon successful completion of event, MMT/OIC shall recommend individual to local Signature Authority as a Master METEM Technician.

Performance Standard. Comprehend materials contained in events and respond to verbal or written questions in a clear and concise manner to be recommended for designation as an MMT.

Prerequisite. JMT-6061, MSUP-6057.

214. T&R SYLLABUS MATRIX. Tables 2-10 through 2-17 provide a quick reference of the events (stage and code), hours, refresh intervals, , and chaining for each stage of training.

Table 2-10.—Core Skill Introduction Events.

Aviation Meteorological Equipment Technician (MOS 6493)															
1000 PHASE INTRODUCTION SKILL															
The numbers correspond with event information noted in the Event Format section															
The letters (A, B, C, D) are additional event information noted below.															
1	1	2	3	4	5	6	7	8	9	13	A	C	D		
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS	REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV	
							TOTAL #	TYPE	OPTIONS						
FAM															
FAM	1100	2.0	0.0	*	B	E	0		L		ELECT SAFETY				
FAM	1101	7.0	0.0	*	B	E	0		L		METRIC NOTATION				
FAM	1102	29.0	0.0	*	B	E	1	T	L		ELECT TEST EQUIP				
FAM	1103	33.0	0.0	*	B	E	1	T	L		DC THEORY				
FAM	1104	39.5	0.0	*	B	E	1	T	L		AC THEORY				
FAM	1105	31.0	0.0	*	B	E	1	T	L		ELECT MAGNET DEVICES				
FAM	1106	52.0	0.0	*	B	E	1	T	L		POWER SUPPLIES				
FAM	1107	18.5	0.0	*	B	E	1		L		AMPLIFIERS				
FAM	1108	18.0	0.0	*	B	E	0		L		GENERATING CIRCUITS				
FAM	1109	1.5	0.0	*	B	E	0		L		SPECIAL PURP DEVICE				
FAM	1110	3.0	0.0	*	B	E	0		L		ESD/EMP/EMI				
FAM	1111	33.5	0.0	*	B	E	0		L		DIGITAL LOGIC				
FAM	1112	28.5	0.0	*	B	E	1	T	L		COMM FUNDAMENTALS				
FAM	1113	15.0	0.0	*	B	E	0		L		NETWORKING FUNDAMENTALS				
FAM	1120	1.0	0.0	*	B	E	0		L	FAM-1100-1113	MARINES CORPS MET STRUCTURE				
FAM	1121	25.0	0.0	*	B	E	1	M	L	FAM-1100-1113	MET EQUIPMENT				
FAM	1122	128.0	0.0	*	B	E	1	M	L	FAM-1100-1113	SURFACE SENSING EQUIP				
FAM	1123	115.0	0.0	*	B	E	1	M	L	FAM-1100-1113	MET RADAR SYSTEM				
FAM	1124	35.0	0.0	*	B	E	1	M	L	FAM-1100-1113	MET SATELLITE				
FAM	1125	28.5	0.0	*	B	E	1	M	L	FAM-1100-1113	UPPER AIR EQUIPMENT				
FAM	1126	67.0	0.0	*	B	E	1	M	L	FAM-1100-1113	RADIO COMM EQUIPMENT				
FAM	1127	79.0	0.0	*	B	E	1	M	L	FAM-1100-1113	MET COMPUTER NETWORK EQUIP				
		790.0	0.0												
Flt/ Live Hrs		790.0	0.0	Sim Hrs											
Matrices shall list all T&R events.															

Table 2-11.--Core Skill Events.

Aviation Meteorological Equipment Technician (MOS 6493)														
2000 PHASE CORE SKILL														
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]														
The letters (A, B, C, D) are additional event information noted below.														
1	1	2	3	4	5	6	7	8	9	13	A	C	D	
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS	REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
							TOTAL #	TYPE	OPTIONS					
FAS														
FAS	2100	8		365	B,R	E	1	G,M,N		D				CPR
FAS	2101	.5		*	B	E	1	G,M		(N)				PPE
FAS	2102	2		*	B	E	1	G,M		(N)				MSDS
FAS	2103	1		*	B	E	1	G,M		(N)				LOCK OUT
		11.5	0.0											
ECF														
ECF	2104	6		730	B,R	E	1	G,M,N	L	(N)				TEST EQUIPMENT
ECF	2105	32		*	B	E	1	G,M,N	L	(N)				RV WAVE
ECF	2106	15		*	B	E	1	G,M,N	L	(N)				AC DC THEORY
ECF	2107	16		*	B	E	1	G,M,N	L	(N)				ELECTRICAL APPS
		69	0.0											
EMB														
EMB	2120	16		180	B,R	E	1	G,M,N	L/S	(N)				EMBARK REQUIREMENTS
EMB	2121	16		180	B,R	E	1	G,M,N	L	(N)				SITE SURVEY
EMB	2122	48		365	B,R	E	1	G,M,N	L/S	(N)				EMBARK METMF(R)
		80	0.0											
MAP														
MAP	2125	8		365	B,R	E	1	G,M,N	L/S	(N)				THEORY OF OPERATIONS
MAP	2126	8		365	B,R	E	1	G,M,N	L	(N)	MAP-2125			OP. CHECKS
MAP	2127	12		365	B,R	E	1	G,M,N	L	(N)	FAS 2000 STAGE, MAP-2126			R&R PROCEDURES
MAP	2128	8		180	B,R	E	1	G,M,N	L	(N)	MAP-2127			INTRO TO PREVENTIVE MAINT
MAP	2129	8		365	B,R	E	1	G,M,N	L	(N)	MAP-2127			INTRO TO PREVENTIVE MAINT
		44	0.0											
MAD														
MAD	2130	2			B	E	1	G,M,N	L	(N)				MALS FUNCTIONS
MAD	2131	4		365	B,R	E	1	G,M,N	L	(N)	MAD-2130			REQUISITION PROCESS
MAD	2132	3		365	B,R	E	1	G,M,N	L	(N)				MAINT. DOCUMENTATION
MAD	2133	2		365	B,R	E	1	G,M,N	L/S	(N)				INTRO TO PMS SCHEDULING
MAD	2134	6	0.0		B	E	1	G,M,N	L	(N)	MAD-2133			SKED
		17	0.0											

Table 2-11.-Core Skill Events (continued).

Aviation Meteorological Equipment Technician (MOS 6493)														
2000 PHASE CORE SKILL														
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]														
The letters (A, B, C, D) are additional event information noted below.														
1	1	2	3	4	5	6	7	8	9	13	A	C	D	
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS	REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
							TOTAL #	TYPE	OPTIONS					
SEC														
SEC	2140	3		*	B	E	1	G,M,N	L	(N)				INTRO TO SECURITY PROCEDURES
SEC	2141	3		*	B	E	1	G,M,N	L	(N)	SEC-2040			LOCAL SECURITY PROCEDURES
		6	0.0											
SAM														
SAM	2145	2		*	B,R	E	1	G,M,N	L	(N)	SEC STAGE			UNIX LOAD/CONFIG
SAM	2146	4		*	B,R	E	1	G,M,N	L	(N)	SEC STAGE			WINDOWS LOAD/CONFIG
SAM	2147	1		*	B,R	E	1	G,M,N	L	(N)	SEC STAGE			ACCT MGMT
SAM	2148	2		*	B,R	E	1	G,M,N	L	(N)	SEC STAGE			NETWORK CONFIG
SAM	2149	2		*	B,R	E	1	G,M,N	L	(N)	SEC STAGE			ADMIN MAINT.
		11	0.0											
EVENT HRS		238.5	0.0	Sim Hrs										
Matrices shall list all T&R events.														

Table 2-12.-Mission Skill Events.

Aviation Meteorological Equipment Technician (MOS 6493)														
3000 PHASE MISSION SKILL														
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]														
The letters (A, B, C, D) are additional event information noted below.														
1	1	2	3	4	5	6	7	8	9	13	A	C	D	
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS	REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
							TOTAL #	TYPE	OPTIONS					
EMB														
EMB	3110	48	0	365	B,R	E	1	M	L/S	(N)		EMB METMF(R)	EMB 2120	
		48	0.0											
MPP														
MPP	3120	10		365	B,R	E	1	G,M,N	L	(N)	MAD-2134	UTILIZE SKED	MAD-2134	
MPP	3121	8		365	B,R	E	1	G,M,N	L/S	(N)	MAP-2128	PREVENT MAINT	MAP-2128	
MPP	3122	8		365	B,R	E	1	G,M,N	L/S	(N)		PREVENT MAINT	MAD-2129	
MPP	3123	8		*	B	E	1	G,M,N	L	(N)	MAD-2132	MAINT DOC	MAD-2132	
MPP	3124	4		*	B	E	1		L	(N)	ECF-2106	MNG TEST EQUIP		
MPP	3125	4		*	B	E	1		L	(N)		MNG PUBS		
MPP	3126	4		365	B,R	E	1		L	(N)		MNG TOOLS		
		46	0.0											
Flt/ Live Hrs		94	0.0	Sim Hrs										
Matrices shall list all T&R events.														

Table 2-13.-Core Plus Skill Events.

Aviation Meteorological Equipment Technician (MOS 6493)														
4000 CORE PLUS PHASE														
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]														
The letters (A, B, C, D) are additional event information noted below.														
1	1	2	3	4	5	6	7	8	9	13	A	C	D	
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS	REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
							TOTAL #	TYPE	OPTIONS					
MPP														
MPP	4100	2.0		730	B,R	E	1	M	L/S	(N)		STRUCTURE REP		
		2.0	0.0											
Flt/ Live Hrs		2.0	0.0	Sim Hrs										
Matrices shall list all T&R events.														

Table 2-14.--Instructor Skill Events.

Aviation Meteorological Equipment Technician (MOS 6493)														
5000 INSTRUCTOR TRAINING PHASE														
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]														
The letters (A, B, C, D) are additional event information noted below.														
1	1	2	3	4	5	6	7	8	9	13	A	C	D	
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS	REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
							TOTAL #	TYPE	OPTIONS					
FSI														
FSI	5000	150	0.0		B	E			L (N)	JMT	BIC			
FSI	5001	1096	0.0		B	E	1	G,M	L (N)	FSI-5000	INSTRUCT CERT			
FSI	5002	2	0.0	90	B,R	E			L (N)	FSI-5001	EVALUATION			
		1248	0.0											
Flt/ Live Hrs		1248	0.0	Sim Hrs										
Matrices shall list all T&R events.														

Table 2-15.--Requirements.

Aviation Meteorological Equipment Technician (MOS 6493)														
6000 SET/MDN PHASE														
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]														
The letters (A, B, C, D) are additional event information noted below.														
1	1	2	3	4	5	6	7	8	9	13	A	C	D	
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS	REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
							TOTAL #	TYPE	OPTIONS					
RQD														
SET	6000	80	0.0		B	E			L (N)	FAM STAGE	ASOS COURSE			
SET	6001	120	0.0		B	E			L (N)	FAM STAGE	OPUP			
SET	6002	80	0.0		B	E			L (N)	FAM STAGE	UNIX/LINUX			
		280	0.0											
MDN														
MDN	6021	2	0.0		B	E			L (N)	FAM STAGE	MET SUPPORT			
MDN	6022	1	0.0		B	E			L (N)	FAM STAGE	MET MISSION			
		3	0.0											

Table 2-16.--Qualification Events.

Aviation Meteorological Equipment Technician (MOS 6493)													
Qualifications													
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]													
The letters (A, B, C, D) are additional event information noted below.													
1	1	2	3	4	5	6	7	8	9	13	A	C	D
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
QTC													
GMT	6050	1		B	E				(N)	ALL 1000/2000 FAS STAGE	GENERAL		
ECF	6051	1		B	E				(N)	GMT-6050, ALL 2000 ECF	ELEC FUND		
EMB	6052	1		B	E				(N)	GMT-6050, ALL 2000 EMB, EMB 3010	EMBARK		
MAP	6053	1		B	E				(N)	ALL 2000 MAP, ECF-6051, MPP-3021	MAINT		
MAD	6054	1		B	E				(N)	GMT-6050, ALL 2000 MAD, MPP-3020/22	AMINT ADMIN		
SAM	6055	1		B	E				(N)	GMT-6050, ALL 2000 SEC/SAM	SYS ADMIN		
PMT	6056	1		B	E				(N)	ECF-6051, MPP-6053, MPP 3020-2	PREV MAINT		
MSUP	6057	1		B	E				(N)	PMT-6056, ALL 3000/4000	MAINT SUP		
		8	0	Matrices shall list all T&R events.									

Table 2-17.--Designation Events.

Aviation Meteorological Equipment Technician (MOS 6493)													
Designations													
The numbers correspond with event information noted in the Event Format section [par. 603.12.d.(3) above]													
The letters (A, B, C, D) are additional event information noted below.													
1	1	2	3	4	5	6	7	8	9	13	A	C	D
STAGE	TRNG CODE	EVENT HOURS	SIM HOURS REFRESH INTVL	POI	EVAL	DEVICE			CONDITIONS	PREREQ	EVENT DESC	CHAINING	EVENT CONV
DTC													
AMT	6060	1		B	E				(N)	ECF, EMB, ALL 2000	APPRENTICE METEM TECH		
JMT	6061	1		B	E				(N)	AMT-6060,, MAP-6053, SAM-6055, PMT-6056, ALL 3000	JOURNEYMAN METEM TECH		
MMT	6062	1		B	E				(N)	JMT-6061, MSUP-6057	MASTER METEM TECH		
		3	0	Matrices shall list all T&R events.									
Flt/ Live Hrs		294	0	Sim Hrs									

214. EVALUATION FORM. Communities shall develop community standardized evaluation forms for all events contained in their T&R syllabus. T&R syllabus evaluation forms shall be placed in T&R manuals as an appendix or maintained by the syllabus sponsor. If the syllabus sponsor maintains T&R syllabus evaluation forms, the syllabus sponsor shall ensure electronic copies are made available to fleet units. Syllabus evaluation format is depicted in appendix A.

Appendix A
Evaluation form.

EVENT DESCRIPTION/GOAL:		EVENT CODE:	
LOCATION/UNIT:		DATE:	
EXECUTION:			
STRENGTHS:			
WEAKNESSES:			
RECOMMENDATIONS:			
T&R EVENT TRAINING TIME:		ACTUAL TIME FOR EVENT TRAINING:	
LIVE SIMULATED CIRCLE ONE		PASS FAIL CIRCLE ONE	
INSTRUCTOR: PRINT NAME		STUDENT: PRINT NAME	
SIGNATURE:		SIGNATURE:	

Appendix B

METEM Definitions

Categories of Training (CAT) - Conversion matrix for USN to USMC Program of Instruction (POI).

Category I (CAT I). This equates to the Basic POI.

Category II (CAT II). This equates to the Basic POI.

Category III (CAT III). This equates to the Refresher POI.

Category IV (CAT IV). This equates to the Modified Refresher POI.

Category V (CAT V). Other POIs not described above.

Certification (CERT) - A certification refers to the evaluation process conducted during syllabus event(s) by a designated instructor or authorized personnel for the purpose of ascertaining proficiency of a crewmember as a prerequisite to qualification or designation. For aviation ground communities, a certification serves to ascertain one-time proficiency evaluation for a given position.

Core Capability - A unit-centered training readiness calculation that assists operations departments and commanding officers in determining a percentage-adjusted MET Output Standard given crew manning constraints. Closely related to Core METL output standards, unit Core Capability is a calculated measure of performance that may differ from the MET Output Standard since expected ability to achieve output standards may be reduced as crew manning is reduced. Core Capability is not a reportable item but may assist units in predicting achievable output standards based on their specific crew manning percentages. Core Capability is primarily used in determining manning-adjusted CMMR per appendix D (Mission Essential Task-Based Core Model Report).

Core Competency - Unit Core Competency is a collective term that entails requirements, capabilities, and information delineated in the applicable unit mission statement, METL, appropriate T/O information, Output Standards, Core Model Minimum Requirements, and supporting tables such as METL/Core Skill matrix and qualification/designation tables.

Core Competency Model - The foundation of every T&R program, the core competency model, or "Core Model" establishes the basic structure around which each T&R program is created. The core competency model, contained in the opening chapters of each specific T&R manual, links community Mission Statements, Mission Essential Task Lists, Output Standards, Core Skill Proficiency Requirements and Combat Leadership Matrices.

Core Competency Resource Model (CCRM) - The Marine Corps Unit Core Competency Resource Model directly links the T&R program with USMC flying hour and readiness reporting (SORTS) programs. The CCRM, accredited by the Commandant of the Marine Corps, generates annual sortie and flight hour requirements (broken down by training, support and operational category) for maintaining selected T-Level readiness ratings for each tactical aviation squadron.

Core Model Minimum Requirement (CMMR) - The Community CMMR reflects the ability of a unit to perform its Output Standards. Unit CMMR is defined in terms of aggregate unit crew Core Skill Proficiency (CSP) and leadership requirements. Unit CMMR is reflected in core model tables (Minimum Unit Core Skill Proficiency Requirements, Minimum Combat Leadership Requirements).

Core Skill (CS) - Fundamental, environmental, or conditional capabilities required to perform basic functions (normally 2000 level). These basic functions serve as tactical enablers that allow crews to progress to the more complex Mission Skills. The Core Model requires individual and unit proficiency in core skills. Core skills are introduced in FRS and entry-level school training and are further refined and expanded at the squadron level. Core skills consist of like T&R events and are normally delineated as T&R stage titles

Core Skill Proficiency (CSP)

Individual CSP - An individual who has attained and maintained a "proficient" status in all T&R designated events, by core skill. Individual CSP shall be based on T&R Individual CSP Attain and Maintain requirements.

Crew-Served CSP - For "crew-served" aircraft/system, a "crew" is defined by each community for each core skill in accordance with the applicable T&R manual. For example, the crew definition for the core skill "Confined Area Landing" for the CH-53E community is 2 Pilots, 1 Crew Chief, 1 Aerial Observer/Gunner. A CSP Crew is a crew where each of the crew positions listed can be filled with an individual who has attained and has maintained a "proficient" status in all T&R designated events, by core skill.

Unit CSP - Unit CSP shall be defined in terms of numbers of individuals or crews required to be proficient in each core skill. A CSP Unit (T-2) maintains a minimum number of CSP Crews in each core skill, in accordance with rules and methods set forth in MCO P3500.14 series.

Designation - A designation is a status assigned to an individual based on leadership ability. A designation is a command specific and remains in effect until removed for cause. Specific designation requirements shall be delineated in individual T&R manuals. Commanders shall issue a designation letter to the individual upon the occasion of original designation, with appropriate copies, for inclusion in the NATOPS jacket and IPR.

Apprentice METEM Technician (AMT) - An entry level Meteorological equipment maintenance technician who has received basic and intermediate training in electronic equipment theory and repair. The AMT is responsible for performing entry level maintenance on all METOC equipment. The AMT continues to hone proficiency in core skills of electronic principals and maintenance procedures.

Journeyman METEM Technician (JMT) - An intermediate level Meteorological equipment maintenance technician who has expanded upon their training in electronic equipment theory and repair. The JMT is responsible for performing all levels of maintenance and intermediate maintenance documentation on all METOC equipment. The JMT continues to hone proficiency in Mission skills of electronic principals and

maintenance procedures. The JMT is one of the primary trainers and mentors of Apprentice METEM Technician (AMT).

Master METEM Technician (MMT)- A senior level Meteorological equipment maintenance technician who has mastered electronic equipment theory and repair. The MMT is responsible for performing as a SME in all levels of maintenance and maintenance documentation on all METOC equipment. The MMT assesses training, safety and administrative procedures. The MMT is the primary trainer and mentor of AMTs and JMTs.

Mission Skills - Mission Skills enable a unit to execute a specific MET. They are comprised of advanced unique event(s) (normally 3000 level) that are focused on MET performance and draw upon the knowledge, aeronautical abilities, and situational awareness developed via core skill training.

Qualification (QUAL) - A qualification is a status assigned to personnel based on demonstration of proficiency in a specific skill. Specific criteria to achieve qualifications shall be delineated in individual T&R manuals. Upon successful completion of qualification criteria, commanding officers may issue an appropriate qualification letter. Individuals do not lose a qualification as a function of refresh factor for individual events. Loss of proficiency (delinquent refresh factor) for all associated qualification events (events with measurable refresh factor; "*" refresh factor events excluded) constitutes loss of that qualification. Re-qualification requires demonstration of proficiency. Specific re-qualification criteria shall be delineated in individual T&R manuals.

GMT - Qualified as a general maintenance technician.

ECF - Qualified as capable in electronic fundamentals.

EMB - Qualified in embarkation and debarkation.

MAP - Qualified in maintenance procedures.

MAD - Qualified in maintenance administration procedures.

SAM - Qualified in system administration of meteorological equipment.

PMT - Qualified as a preventive maintenance technician.

MSUP- Qualified in the assessment of METEM equipment and supply procedures that relate to mission specific support requirements.

FSI - Qualified as a formal schools instructor.

Refresh Factor - The maximum time between syllabus events requiring a specific skill wherein the unit can expect the average aircrew/MACCS personnel to maintain their acquired level of proficiency.

Requirements, Qualifications, Designations (RQD) - Normally tracking codes that facilitate management of unit requirements/qualifications/designations as well as aviation ground individual certifications.

Stage - A group of similar T&R events (normally like Core Skill events) in numerical sequence within a Phase.

Syllabus Event - A flight or ground training evolution required by an individual syllabus.

Event Status - A 'Never Been Attempted' (NBA) status indicates an event that has never been successfully completed or updated via T/C stage completion (no proficiency date). An 'Incomplete' status means the individual was scheduled and attempted to complete the event but did not complete all event requirements. A 'proficient' status indicates that the number of days between the proficiency date and the reference date must be equal to or less than the refresh interval. A 'delinquent' status indicates that the number of days between the proficiency date and the reference date (usually "today") exceeds the refresh interval.

Delinquent Syllabus Event - An event is delinquent when the crew member exceeds the "refresh factor" for that particular event. The individual may update the delinquent event by refreshing that event with a current and proficient crewman/flight lead. Delinquent events are not updated through chaining.

Deferred Syllabus Event - An event that is delayed in the normal training progression cycle due to a lack of a logistic support or training assets. See paragraph 202.4.a for event deferral policy detail.

Waived Syllabus Event - When an event is waived, the individual's proficiency date for that event shall be manually updated in M-SHARP and the individual remains proficient through the respective event refresh interval. See paragraph 202.4.a for event waiver policy detail.

Prerequisite - A prerequisite is a requirement that must be successfully completed prior to commencing another training requirement unless otherwise stated in a community T&R. See paragraph 603.12.d (T&R Syllabus Format), note 13, for additional prerequisite information.



UNITED STATES MARINE CORPS
COMMAND LETTERHEAD

IN REPLY REFER TO:
3500
O.SYMB
DD MMM YY

From: Commanding Officer, Unit
To: Rank First Name MI. Last Name XXX XX ####/6493 USMC
Subj: MOS 6493 T&R *QUALIFICATION TITLE* QUALIFICATION
Ref: (a) NAVMC 3500.14A
(b) NAVMC 3500.XX

1. IAW with the guidelines illustrated in reference (a), you have completed all events required by reference (b) and are hereby qualified as a *Qualification Title*.
2. This qualification shall remain valid unless revoked for cause.

F. M. LASTNAME

UNITED STATES MARINE CORPS
COMMAND LETTERHEAD

IN REPLY REFER TO:

3500

SYMB

DD MMM YY

From: Commanding Officer, Unit
To: Rank First Name MI. Last Name XXX XX ####/6493 USMC
Subj: MOS 6493 T&R *DESIGNATION TITLE* DESIGNATION
Ref: (a) NAVMC 3500.14A
(b) NAVMC 3500.XX

1. IAW with the guidelines illustrated in reference (a), you have completed all events required by reference (b) and have displayed appropriate leadership qualities expected of a *Designation Title*.

2. This designation shall remain valid until your transfer from this command or revoked for cause.

F. M. LASTNAME



UNITED STATES MARINE CORPS
COMMAND LETTERHEAD

IN REPLY REFER TO:
3500
O.SYMB
DD MMM YY

From: Commanding Officer, Unit
To: Commanding General, Training Command

Subj: MOS 6493 T&R REQUEST FOR WAIVER

Ref: (a) NAVMC 3500.14A
(b) NAVMC 3500.XX

1. Due to *Reason for waiver* and IAW reference (a), a waiver is requested for the following events from reference (b).

EVENT CODE EVENT DESCRIPTION

2. This waiver is requested for the following members of this command:

RANK NAME LAST 4

3. This waiver will be permanent.

F. M. LASTNAME



UNITED STATES MARINE CORPS
COMMAND LETTERHEAD

IN REPLY REFER TO:
3500
O.SYMB
DD MMM YY

From: Commanding Officer, Unit
To: Commanding General, Training Command

Subj: MOS 6493 T&R REQUEST FOR DEFERRAL

Ref: (a) NAVMC 3500.14A
(b) NAVMC 3500.XX

1. Due to Reason for deferral (i.e. MetMF(R) not on site, B-billet assignment, etc.) and IAW reference (a), a deferral is requested for the following events from reference (b).

EVENT CODE EVENT DESCRIPTION

2. This deferral is requested for the following members of this command:

RANK NAME LAST 4

3. This deferral will remain in effect until the condition listed in para.1. no longer exists or the member transfers from this command.

F. M. LASTNAME

Appendix G

REFERENCES

1. References

TITLE	IDENTIFICATION CODE
NAVY OCCUPATIONAL SAFETY AND HEALTH PROGRAM MANUAL	OPNAVINST 5100.23F
AIRCRAFT FUEL CELL AND TANKS MANUAL	NAVAIR 01-1A-35
NAVOSH PROGRAM MANUAL FOR FORCES AFLOAT	OPNAVINST 5100.19D B-7/1
STORAGE AND HANDLING OF HAZARDOUS MATERIALS	MCO 4450.12A
ELECTRONIC CODE OF FEDERAL REGULATIONS FOR ETHICS AND CONDUCT FOR LABOR	Code of Federal Regulations 29
MAINTENANCE AND MATERIAL MANAGEMENT (3-M) SYSTEM	NAVSEA 4790.8B
MILSTRIP/MILSTRAP DESK GUIDE	NAVSUP P-409
5-03.2 JOPEs VOL <u>II</u> : SUPPLEMENT PLANNING FORMATS AND GUIDANCE	NWP 1-03.2 CH 2
EMBARKATION GUIDE	SPAWAR EM00-AX-SUP-B2A
METMFR SYSTEMS MANUAL	EM000-AX-OMI-B10
USER'S LOGISTICS SUPPORT SUMMARY	ULSS
SYSTEMS ADMINISTRATION MANUAL	EM000-AX-SAM-01A
CMS POLICY AND PROCEDURES FOR NAVY ELECTRONIC KEY MANAGEMENT	CMS-21B
RADAR PRINCIPLES	NEETS MOD 18 (14190)
PRINCIPLES OF SYNCHROS, SERVOS, AND GYROS	NEETS MOD 15 (14187)
MODULATION PRINCIPLES	NEETS MOD 12 (14184)
INTRODUCTION TO MATTER, ENERGY, AND DIRECT CURRENT	NEETS MOD 1 (14173)
INTRODUCTION TO ALTERNATING CURRENT AND TRANSFORMERS	NEETS MOD 2 (14174)
INTRODUCTION TO ELECTRICAL CONDUCTORS, WIRING TECHNIQUES, AND SCHEMATIC READING	NEETS MOD 4 (14176)
ANTENNA CONSTRUCTION AND PROPAGATION OF RADIO WAVES	MCI -2515
INTRODUCTION TO TEST EQUIPMENT	MCI -287
METEOROLOGICAL AND OCEANOGRAPHIC (METOC) POST-DEPLOYMENT REPORTS	NAVMETOC COMINST 3140.23
JOINT METOC OPERATIONS	CJCSI 3810.01
JOINT OPERATIONAL PLANNING AND EXECUTION SYSTEM (JOPEs)	CJCSM 3122.03
METOC TRAINING AND READINESS MANUAL	NAVMC 3500.38
JOINT DOCTRINE, TACTICS, TECHNIQUES AND PROCEDURES FOR METOC OPERATIONS	JP 3-59
MAINTENANCE AND MATERIAL MANAGEMENT (3M) PROGRAM FOR NAVMETOC COM ACTIVITIES	NAVMETOC COMINST 4790.2
MISSION, ORGANIZATION, AND FUNCTIONS OF THE NAVAL METOC COMMUNITY	NAVMETOC COMINST 5450.9
METEOROLOGICAL EQUIPMENT MANAGEMENT AND PLANNING POLICY	NAVMETOC COMINST 13950.1
WARNINGS AND CONDITIONS OF READINESS CONCERNING HAZARDOUS OR DESTRUCTIVE WEATHER PHENOMENON	OPNAVINST 3140.24
FEDERAL METEOROLOGICAL HANDBOOK NO.3 - RAWINSODE AND PIBAL OBSERVATIONS	FCM-H3-1997

(References - Continued.)

TITLE	IDENTIFICATION CODE
WSR-88D TROPICAL CYCLONE OPERATIONS PLAN	FCM-P12-2004
MARINE CORPS HEAT INJURY PREVENTION PROGRAM	MCO 6200.1
DEPARTMENT OF NAVY PERSONNEL SECURITY PROGRAM (PSP) REGULATION	SECNAVINST 5510.30
DEPARTMENT OF THE NAVY INFORMATION SECURITY PROGRAM (ISP) REGULATION	SECNAVINST 5510.36
USMC INFORMATION ASSURANCE PROGRAM (MCIAP)	MCO 5239.2
USMC INFORMATION AND PERSONNEL SECURITY PROGRAM MANUAL	MCO P5510.18
MARINE CORP PHYSICAL SECURITY PROGRAM MANUAL	MCO 5530.14
NAVY AND MARINE CORPS AWARDS MANUAL	SECNAVINST 1650.1
DON FILE MAINTENANCE PROCEDURES AND STANDARD SUBJECT IDENTIFICATION CODES (SSIC)	SECNAVINST 5210.11
NAVY AND MARINE CORPS RECORDS DISPOSITION MANUAL	SECNAVINST 5212.5
DON CORRESPONDENCE MANUAL	SECNAVINST 5216.5
DON POLICY FOR CONTENT OF PUBLICLY ACCESSIBLE WORLD WIDE WEB SITES	SECNAVINST 5720.47
MARINE CORPS PUBLICATIONS LIBRARY MANAGEMENT SYSTEM FIELD USER'S GUIDE	UM-PLMS
MARINE CORPS UNIFORM REGULATIONS	MCO P1020.34
MARINE CORPS INDIVIDUAL RECORDS ADMINISTRATION MANUAL (IRAM)	MCO P1070.12
MILITARY OCCUPATIONAL SPECIALTIES (MOS) MANUAL	MCO P1200.7
MARINE CORPS PROMOTION MANUAL, VOLUME 2 ENLISTED PROMOTIONS	MCO P1400.32
PERFORMANCE EVALUATION SYSTEM (PES)	MCO P1610.7
ADMINISTRATIVE AND ISSUE PROCEDURES FOR DECORATIONS, MEDALS, AND AWARDS	MCO 1650.19
FAMILY CARE PLANS	MCO 1740.13
OPERATIONAL RISK MANAGEMENT (ORM)	MCO 3500.27
MARINE CORPS COMBAT READINESS AND EVALUATION SYSTEM (MCCRES)	MCO 3501.1
MCCRES VOL XII, MWSG UNITS	MCO 3501.17
MARINE CORPS EXPEDITIONARY FORCE DEVELOPMENT SYSTEM	MCO P3900.15
CONSUMER LEVEL SUPPLY POLICY MANUAL	MCO P4400.150
DOD SUPPLY MANAGEMENT REFERENCE BOOK	MCO 4400.163
STORAGE AND HANDLING OF HAZARDOUS MATERIALS	MCO 4450.12
MARINE CORPS INSPECTIONS	MCO 5040.6
MARINE CORPS SAFETY PROGRAM	MCO 5100.29
MARINE CORPS OCCUPATIONAL SAFETY AND HEALTH PROGRAM MANUAL	MCO P5100.8

(References - Continued.)

TITLE	IDENTIFICATION CODE
USMC INTERNAL MANAGEMENT CONTROL PROGRAM	MCO 5200.24
RECORDS MANAGEMENT PROGRAM FOR THE MARINE CORPS	MCO 5210.11
MARINE AIRCRAFT GROUP (MAG) FISCAL HANDBOOK	MCO P7300.19
STORAGE AND HANDLING OF COMPRESSED GASES AND LIQUIDS IN CYLINDERS, AND OF CYLINDERS	MCO 10330.2
USER'S GUIDE TO COUNSELING	NAVMC 2795
ENLISTED CAREER COUNSELOR'S HANDOUT	MME HANDOUT
AUTOMATED SURFACE OBSERVING SYSTEM (ASOS) USER'S GUIDE	ASOS
USER'S LOGISTICS SUPPORT SUMMARY (ULSS) FOR THE METMF(R)	EM-400-AL-LSS-A10/AN/TMQ44A(V)1
METMF(R) SYSTEM'S MANUAL SECTION	EM000-AX-OMI-A10
SHIP'S MAINTENANCE AND MATERIAL MANAGEMENT (3M) MANUAL	OPNAVINST 4790.4
TECHNICAL MANUAL - WSR88D	NAV EM400-AA-MMM-010/WSR88D
CATALOG OF NAVAL OCEANOGRAPHIC OFFICE UNCLASSIFIED PUBLICATIONS	RP51
MARINE BATTLE SKILLS TRAINING (MBST) PROGRAM	MCO 1500.51
COMPETENCIES FOR THE MARINE CORPS OFFICER, VOL 2, CAPTAIN	MCO 1510.99
MARINE CORPS COMMON SKILLS (MCCS) PROGRAM	MCO 1510.121
MARINE CORPS UNIT TRAINING MANAGEMENT	MCO 1553.3
AVIATION PROGRAM MANUAL	NAVMC P3500.14A
MARINE CORPS TRAINING, EXERCISE, AND EMPLOYMENT PLAN (MCTEEP)	MCO 3500.25
NBC FIELD HANDBOOK	FM 3-7
INTELLIGENCE PREPARATION OF THE BATTLEFIELD	FM 34-130
GROUND COMBAT OPERATIONS	FMFM 6
INTELLIGENCE OPERATIONS	MCWP 2-1
AVIATION OPERATIONS	MCWP 3-2
AVIATION GROUND SUPPORT	MCWP 3-21.1
DOCTRINE FOR NAVY AND MARINE CORPS JOINT RIVERINE OPERATIONS	MCWP 3-35.4
MAGTF METOC SUPPORT	MCWP 3-35.7
MARINE CORPS PLANNING PROCESS	MCWP 5-1
MARINE CORPS SUPPLEMENT TO THE DOD DICTIONARY AND ASSOCIATED TERMS	MCRP 5-12