



Course Syllabus

Course Name:	MUOS Professional (MP)
Availability	Weekly courses available (call for specific availability)
Location:	Our MUOS Mobile Training Team (M2T2) will conduct training at your location
Course Duration	Five (5) Days
Learning Credits/Hours	Forty (40) Hours

Prerequisites

Although no courses are required prior to attending the course, various activities must be completed by the receiving unit to ensure successful outcomes. A pre-event checklist will be provided and facilitated by one of the STF instructors to ensure you are fully prepared prior to our arrival.

- *Pre-Event Checklist*

Course Description

MUOS Professional (MP) Training will provide students and current/future users the knowledge required to plan, provision and operate the MUOS waveform via any MUOS capable terminal. The course provides students with a better understanding of MUOS end-to-end (E2E) capabilities, System of Systems (SoS), terminology, services, features, E2E Keying requirements and functional roles. It also provides students a hands-on approach to learning how to plan MUOS in the Joint Enterprise Network Manager (JENM) software, load and activate MUOS on terminals, and operate MUOS services over-the-air. MP Training is a combination of MPM and MPO curriculum, providing the full end-to-end perspective of MUOS.

Learning Outcomes

By the end of the course, students will be able to:

- Describe the MUOS capabilities, services, features, and processes.
- Define the five phases, roles, and workflows associated with planning and provisioning
- Submit spectrum requests
- Create and submit profile requests via JSMPs
- Create & submit MUOS group requests (JIST)
- Obtain, order, and generate all necessary key material via KMI
- Create network designs and generate radio mission plans (JENM)
- Perform user host configuration and application configuration
- Perform mission plan and key loading operations on radios
- Perform MUOS activation and radio operations (live voice and data services)

Materials

All training materials will be provided by the instructor at the beginning of the course. Materials include:

- MUOS Professional (MP) Guide
- MUOS Quick Reference Guide

Grading

Students that complete all course requirements will receive a signed Certificate of Completion from STF. Although no specific grades are assigned, a capstone exercise at the end of the course is used to assess student's proficiency with defined learning outcomes.



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Course Schedule

DAY ONE

Item #	Agenda Topic(s)	Primary Role	Systems Required	Classification
1.	MUOS Training Overview <ul style="list-style-type: none"> • Introductions • Training Objectives Overview • Materials Overview • Schedule Review • Facilities 	All Roles	None	Unclassified
2.	MUOS Overview <ul style="list-style-type: none"> • MUOS Capability • MUOS System of Systems • Terminology • Services • Features • E2E Keying • Functional Roles 	All Roles	None	Unclassified
<i>BREAK (1200-1300)</i>				
3.	MUOS Planning/Provisioning Process Overview <ul style="list-style-type: none"> • Mission Analysis Processes • Data Collection Processes • Network Design Processes • Network Load and Configuration Processes • Network Activation Processes • Operational Updates Processes 	All Roles	None	Unclassified
4.	MUOS Spectrum Request Form <ul style="list-style-type: none"> • Frequency Characteristics • Frequency Coordination Process • Function of MUOS Frequency Profiles 	Spectrum Manager	None	Unclassified
5.	MUOS Profile Requests <ul style="list-style-type: none"> • JSMPS Account Request Process and Roles • JSMPS Capabilities, features, and resources • Submitting, Verifying, Cloning, Editing, and Downloading Initial Provisioning Requests 	Terminal Planner	JSMPS	Secret
6.	MUOS Group Requests <ul style="list-style-type: none"> • JIST Account Request Process and Roles • JIST Capabilities and Features • Submit, Verify, Validate, Update, and Clone Satellite Access Requests • Download MUOS Group Authorization 	Terminal Planner	JIST	Secret
7.	MUOS COMSEC Ordering and Generation <ul style="list-style-type: none"> • KMI Features and Capabilities • MUOS HAIPE Closed Partition Ordering Privilege • MUOS HAIPE and SCIP FFVS Key Material • Generate MUOS HAIPE PPK Material • Load MUOS Keys onto SKL 	COMSEC Manager	KMI	Unclassified



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Item #	Agenda Topic(s)	Primary Role	Systems Required	Classification
DAY TWO				
1.	MUOS Terminal Provisioning <ul style="list-style-type: none"> JENM System Interfaces JENM Hardware and Software Requirements Windows Operating System Services JENM Capabilities and Data Flow JENM Applications and Launch Procedures 	Terminal Provisioner	JENM	Unclassified
2.	MUOS Terminal Provisioning <ul style="list-style-type: none"> Application Features and Capabilities Import and Export Network Designs Add, View, Edit, and Delete Certificates Add, View, and Delete a Certificate Revocation List (CRL) Delete Temporary Files 	Terminal Provisioner	JENM	Unclassified
3.	MUOS Terminal Provisioning <ul style="list-style-type: none"> Application Features and Capabilities Data and Documents for Creating a MUOS Network Design Managing MUOS Network Resources using Resource Manager MUOS Network Design Creation Application Settings Save RCFs to File Load Radio and SKL 	Terminal Provisioner	JENM	Unclassified
DAY THREE				
1.	MUOS Terminal Provisioning (Continued)	Terminal Provisioner	JENM	Unclassified
2.	MUOS User Host Configuration <ul style="list-style-type: none"> MUOS User Host Configurations and Settings Information Assurance Consideration User Host IP Address Settings Modification Max Transmit Unit (MTU) Modification Internet Browser Settings Modification TacChatIP Settings Modification 	Network Administrator	Host Computer	Unclassified
DAY FOUR				
1.	MUOS Terminal Loading and Operations <ul style="list-style-type: none"> RT-1949 Features and Capabilities Zeroize RT-1949 to prepare for loading MUOS Key and RCF Loading to a RT-1949 MUOS Mission Plans Instantiating MUOS MUOS Status Viewing P2P, P2N, and Group Calling Simultaneous Calling Settings Modification 	Terminal Operator	PRC-117G/ RCF/ SKL	Unclassified
2.	MUOS Troubleshooting	Terminal Operator	PRC-117G	Unclassified



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DAY FIVE				
1.	Capstone Exercise / Student Evaluation <ul style="list-style-type: none">• MUOS Mission Analysis and Data Collection Processes• Network Design Process Execution• Network Load and Configuration Process Execution• Network Activation Process Execution	ALL	PRC-117G	Unclassified