

3123. OCCUPATIONAL FIELD 28, GROUND ELECTRONICS MAINTENANCE

1. Introduction. The Ground Electronics Maintenance Occupational Field includes the installation; inspection and classification; servicing, adjustment, and tuning; repair; modification; recovery and evacuation; overhauling and rebuilding; and testing and calibration of electronic equipment and systems used by Marine Corps Ground Forces. The equipment includes various types of communications transmission systems, information technology systems, intelligence processing systems, tactical sensor systems, cryptographic devices, artillery electronics systems, digital fire control systems, unmanned aerial vehicle electronics, miscellaneous non-communication systems, electronic jamming systems, and a wide range of test equipment and calibration devices. Qualifications to work in this field include manual dexterity, normal color vision, be eligible to hold a secret security clearance, the ability to understand highly technical material, and to comprehend complex mathematical and logic principles. Types of entry-level jobs available include work as a Ground Electronics Transmission Systems Maintainer, Ground Electronics Telecommunications and Information Technology Systems Maintainer, Calibration Technician, Artillery Electronics Technician, and Technical Controllers. Formal schooling is provided to all Marines entering this field. In general, entry-level training consists of basic electronics, electronic systems fundamentals, and an equipment-oriented phase at either a Marine Corps school or other service school. Career progression training will involve either related supervisory/technical level training or lateral move to another MOS within the field. Skill progression, skill enhancement and skill sustainment training is provided via on the job and through distributed learning and formal schooling. Billets for Ground Electronics Maintenance Personnel are found throughout the Marine Corps, but are concentrated within units having specific electronic or service support missions. Marines in this field may serve within division or wing units, MLG, MHG or supporting establishments. Instructor billets are found at the formal schools. Marines entering this field will be assigned MOS 2800, Basic Ground Electronics Maintenance Marine.

2. MOS 2821, Technical Controller (Sgt to Pvt) PMOS

a. Summary. Technical Controllers operate and maintain technical control equipment. They establish technical control sites, locate and correct faults, and improve signal quality in communications networks to maintain adequate communications and data services for the MAGTF commander. Typical duties include testing of circuits to ensure circuit quality is maintained, repairing faults or reducing degradation in communications networks, and maintaining records on activation/deactivation of communications links and maintenance actions performed. Technical Controller Marines operate and maintain technical control equipment by performing tasks including equipment adjustments and replacing faulty components/parts.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must possess an EL score of 115 or higher.
- (3) Must have normal color vision.
- (4) Security requirement: Secret security clearance eligibility.

(5) Must have completed one year of high school algebra.

c. Requirements

(1) Complete the Basic Electronics Course and Technical Controller Course, at MCCES 29 Palms, CA.

(2) Marines must have 36 months obligated service remaining upon graduation from the Technical Controller Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M092721	Basic Electronics	Twentynine Palms, CA
M09DZA1	Technical Controller	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code

(1) Radio Mechanics 49-2021.

(2) Telecommunications Equipment Installers and Repairers, Except Line Installers 49-2022.

f. Related Military Skill. None.

3. MOS 2823, Technical Control Chief (MGySgt to SSgt) PMOS

a. Summary. Technical Control Chiefs supervise the operation and maintenance of technical control equipment used in MAGTF and joint communications networks. They are trained to evaluate the technical supportability and limitations of communications equipment, draft MAGTF/joint systems architecture and communications plans, and coordinate technical interface and restoration issues with higher, adjacent, and subordinate commands. This MOS is a career progression for MOS 2821.

b. Prerequisites

(1) Must be a U.S. Citizen.

(2) Must possess an EL score of 115 or higher.

(3) Must have normal color vision.

(4) Security requirement: Top Secret security clearance eligibility.

c. Requirements

(1) Complete the Advanced Electronics Course and Technical Control Chief Course, at MCCES 29 Palms, CA.

(2) Marine must have 24 months obligated service remaining upon graduation from the Technical Control Chief Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M09DSK1	Advanced Electronics	Twentynine Palms, CA
M09DSC1	Technical Controller Chief	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Telecommunications Equipment Installers and Repairers, Except Line Installers 49-2022

f. Related Military Skill. None.

4. MOS 2831, Digital Wideband Systems Maintainer (Sgt to Pvt) PMOS

a. Summary. Digital Wideband Systems Maintainers are trained to install, diagnose, modify, and perform field level maintenance on digital wideband communications equipment used for high capacity, tropospheric scatter and satellite link communications. Typical duties include tuning and aligning systems, adjusting audio or data levels, using test equipment to make checks on circuit quality, diagnose equipment faults to the component level, and replace faulty parts or components at an organizational unit or intermediate maintenance activity. These Marines also requisition parts, complete service requests, and assist in the installation of Digital Wideband Systems.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must possess an EL score of 115 or higher.
- (3) Must have normal color vision.
- (4) Security requirement: Secret security clearance eligibility.
- (5) Must have completed one year of high school algebra.

c. Requirements

(1) Complete the Basic Electronics Course, and the Digital Wideband Equipment Repair Course at MCCES 29 Palms, CA.

(2) Marines must have 36 months obligated service remaining upon graduation from the Digital Wideband Equipment Repair Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M092721	Basic Electronics	Twentynine Palms, CA
M09D3C1	Digital Wideband Repair	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code

(1) Radio Mechanics 49-2021.

(2) Telecommunications Equipment Installers and Repairers, Except Line Installers 49-2022.

f. Related Military Skill. None.

5. MOS 2834, Advanced Extremely High Frequency (AEHF) Technician (GySgt to LCpl) NMOS (2831, 2862)

a. Summary. The Advanced Extremely High Frequency (AEHF) Technician MOS identifies maintenance personnel that have received the training to repair and support the AEHF satellite communications systems. This MOS will only be assigned to Marines holding primary MOS 2831 or 2862 and that are assigned to Division Communications Company or Communications Battalion.

b. Prerequisites

(1) Must be a U.S. Citizen.

(2) Must possess an EL score of 115 or higher.

(3) Must have normal color vision.

(4) Security requirement: Secret security clearance eligibility.

(5) Must have completed one year of high school algebra.

(6) Must have primary MOS of 2831 or 2862.

c. Requirements

(1) Complete the Digital Wideband Technician Course at Ft Gordon, GA.

(2) Marines must have 24 months obligated service remaining upon graduation from the Digital Wideband Technician Course. This obligated service must be obtained prior to execution of TEMINS (DUINS) of TAD (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
A09DPG1	Digital Wideband Technician (DWTC)	Ft Gordon, GA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code.
Telecommunications Equipment Installers and Repairers, Except Line Installers
49-2022.

f. Related Military Skill. Electronics Maintenance Technician, 2862.

6. MOS 2841, Ground Electronics Transmission Systems Maintainer (Sgt to Pvt)
PMOS

a. Summary. Ground Electronics Transmission Systems Maintainers are trained to install, diagnose, modify, and perform field level maintenance on Ground Common Transmission Systems, Digital Fires Situational Awareness Systems, Vehicle Intercommunications Systems, Vehicle Electronics Equipment, related electronic equipment, electronic jamming systems, and miscellaneous non-communication systems. Typical duties include the troubleshooting and repair of ground common radio systems, Ground Common Tactical Wideband Transmission Systems and related electronic equipment at an organizational unit or intermediate maintenance activity. These Marines also requisition parts, complete service requests, and to assist in the installation of Ground Electronics Transmission Systems.

b. Prerequisites

- (1) Must be a U.S. Citizen
- (2) Must possess an EL score of 115 or higher.
- (3) Security requirement: Secret security clearance eligibility.
- (4) Must have normal color vision.
- (5) Must have completed 1 year of high school algebra.

c. Requirements

(1) Complete the Basic Electronics Course and the Ground Transmission Systems Repair Course at MCCES, 29 Palms, CA.

(2) Marines must have 36 months of obligated service remaining upon graduation from the Ground Transmission Systems Repair Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M092721	Basic Electronics	Twentynine Palms, CA
M09E3K1	Ground Radio Repair	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code.
Radio Mechanic 49-2021.

f. Related Military Skill. None.

7. MOS 2847, Ground Electronics Telecommunications and Information Technology Systems Maintainer (Sgt to Pvt) PMOS

a. Summary. Ground Electronics Telecommunications and Information Technology Systems Maintainers are trained to install, diagnose, modify, and perform field level repairs on repairs on Marine Corps Common Hardware Suite (MCHS) systems, intelligence processing systems, information technology systems, telephone switching systems, and related equipment. Typical duties include the repair and alignment to ground common telephone and switching equipment, intelligence processing equipment, data distribution systems, and information technology end user devices (e.g. computers, printers, or plotters), and associated peripheral devices. These Marines also requisition parts, complete service requests, and assist in the installation of Information Technology Systems.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must possess an EL score of 115 or higher.
- (3) Must have normal color vision.
- (4) Security requirement: Secret security clearance eligibility.
- (5) Must have completed one year of high school algebra.

c. Requirements

(1) Complete the Basic Electronics Course and the Telephone System/Personal Computer Repair Course, at MCCES 29 Palms, CA.

(2) Marines must have 36 months obligated service remaining upon graduation from the Telephone System/Personal Computer Repair Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M092721	Basic Electronics	Twentynine Palms, CA
M09DSE1	Telephone Systems/Personal Computer Intermediate Repair	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Telecommunications Equipment Installers and Repairers, Except Line Installers 49-2022.

f. Related Military Skill. None.

8. MOS 2848, Tactical Remote Sensor System (TRSS) Maintainer (SSgt to LCpl) NMOS (2841, 2862)

a. Summary. Tactical Remote Sensor System (TRSS) Maintainers are trained to inspect, maintain and repair TRSS equipment up to the field level. TRSS Maintainers are also trained to provide technical assistance during the installation and operation of the TRSS. This MOS will only be assigned to Marines holding primary MOS 2841 or 2862.

b. Prerequisites. Security requirement: Secret security clearance eligibility.

c. Requirements. Complete the Tactical Remote Sensor System (TRSS) Maintenance Course, at MCCES 29 Palms, CA.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M09DRP1	Tactical Remote Sensor System Maintenance	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Radio Mechanics 49-2021.

f. Related Military Skill

(1) Ground Radio Repairer, 2841.

(2) Electronics Maintenance Technician, 2862.

9. MOS 2862, Ground Electronics Systems Maintenance Technician (GySgt to SSgt) PMOS

a. Summary. Ground Electronics Systems Maintenance Technicians are qualified to perform complex diagnosis, field level repairs, and modifications to ground electronics systems. These technicians supervise ground electronics systems maintenance activities and instruct in the use and maintenance of ground electronics communications systems. Typical duties include complex field level repairs and modifications to ground electronics systems, supervision of a maintenance section or shop, coordination of equipment evacuation for repair with other maintenance activities, requisitioning of parts, and monitoring maintenance reports. These technicians also provide technical assistance during the employment and installation of data/radio communication systems. This MOS is career progression for MOSs 2831, 2841 and 2847. Preferred target for assignment to career progression training is at the 5-8 years' time in service (TIS) mark. MOS 2862 is assigned upon completion of the Electronics Maintenance Technician Course. MOS 2891, Electronics Maintenance Chief, is assigned upon promotion to Master Sergeant and completion of required training.

b. Prerequisites

(1) Must be a U.S. Citizen.

(2) Must possess an EL score of 115 or higher.

- (3) Must have normal color vision.
- (4) Security requirement: Secret security clearance eligibility.
- (5) Must have completed one year of high school algebra.

c. Requirements

(1) Complete the Advanced Electronics Course and the Electronics Maintenance Technician Course, at MCCES 29 Palms, CA.

(2) Marines must have 24 months obligated service remaining upon graduation from the Electronics Maintenance Technician Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the attend training.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M09DSK1	Advanced Electronics	Twentynine Palms, CA
M09DSJ1	Electronics Maintenance Technician	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Radio Mechanics 49-2021.

f. Related Military Skill. None.

10. MOS 2871, Calibration Technician (Sgt to Pvt) PMOS

a. Summary. Calibration Technicians are qualified to perform calibration of high density, low complexity test measurement and diagnostic equipment (TMDE). Additionally, they are also qualified to repair and modify electrical/electronic TMDE. Typical duties include the calibration of high density, low complexity TMDE and the repair and modification of electrical/electronic TMDE as necessary to include associated maintenance management and metrology documentation.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must possess an EL score of 115 or higher.
- (3) Must have normal color vision.
- (4) Security requirement: Secret security clearance eligibility.
- (5) Must have completed one year of high school algebra.

c. Requirements

(1) Must complete the Calibration Technician Course at Keesler AFB, MS.

(2) Marines must have 36 months obligated service remaining upon graduation from the Calibration Technician Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M3028T1	Calibration Technician Course (USMC)	Keesler AFB, MS

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Precision Instrument and Equipment Installers and Repairers, All Others 49-9069.

f. Related Military Skill. None.

11. MOS 2874, Metrology Technician (MGySgt to Sgt) (PMOS)

a. Summary. Metrology Technicians are qualified to calibrate precision electronic, mechanical, physical, optical, infrared, and laser Test Measurement and Diagnostic Equipment (TMDE) through use of higher order measurement standards. Typical duties include supervising the operation of a calibration and TMDE maintenance facility to include such tasks as safeguarding and reporting of calibration results, maintaining accurate traceability to a higher echelon laboratory, and preparing and receiving shipments of delicate TMDE. Duties also include the determination of calibration levels required based on equipment capabilities and user requirements, technical evaluation of calibration procedures, monitoring the capability of requirements of facility standards and submission of change requests, and the training of users in the proper care and operations of TMDE. This MOS is a career progression for MOS 2871. Preferred target for assignment to career progression training is at the 6-8 years' time-in-service (TIS) mark.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must have an EL score of 115 or higher.
- (3) Must have normal color vision.
- (4) Security requirement: Secret security clearance eligibility
- (5) Must have completed one year high school algebra.

c. Requirements

- (1) Must complete the Metrology Technician Course at Keesler AFB, MS.

(2) Marines must have 24 months obligated service remaining upon graduation from the Metrology Technician Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M30DSG1	Metrology Technician Course	Keesler AFB, MS

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Precision Instrument and Equipment Repairers, All Other 49-9069.

f. Related Military Skill. Aviation PME Technician, 6492

12. MOS 2887, Artillery Electronics Technician (GySgt to Pvt) PMOS

a. Summary. Artillery Electronics Technicians are training to operate and maintain Counter Mortar Radar Systems, Meteorological Measuring Systems, Chronograph Systems, and Ancillary Ground Radar Systems. Tasks include the siting, installing, inspecting, testing, and repairing of the systems with emphasis on inspection. Artillery Electronics Technicians maintain necessary records on maintenance performed, hours of operation, and systems or component tests. MOS 2891, Electronics Maintenance Chief is assigned upon promotion to Master Sergeant and completion of required training.

b. Prerequisites

- (1) Must be a U.S. Citizen.
- (2) Must have an EL score of 115 or higher.
- (3) Must have normal color vision.
- (4) Security requirement: Secret security clearance eligibility.
- (5) Must have completed one year of high school algebra.

c. Requirements

(1) Complete the Basic Electronic Course, at MCCES 29 Palms, CA and Marine Artillery Electronics Maintenance Course, at Ft. Sill, OK.

(2) Marines must have 36 months obligated service remaining upon graduation from the Marine Artillery Electronics Maintenance Course. This obligated service must be obtained prior to execution of PCS (DUINS) or PCA (DUINS) orders to the course.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M092721	Basic Electronics	Twentynine Palms, CA
A20DSH1	Marine Artillery Electronics Maintenance (USMC)	Ft Sill, OK

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. Electrical and Electronics Repairers, Commercial and Industrial Equipment 49-2094.

f. Related Military Skill. None.

13. MOS 2891, Ground Electronics Systems Maintenance Chief (MGySgt and MSgt) PMOS

a. Summary. Ground Electronics Systems Maintenance Chiefs perform staff duties in formulating and implementing maintenance plans to support tactical logistics IAW MCWP 4-11. These Maintenance Chiefs will develop policies and procedures for ground electronics systems maintainers to perform inspection and classification; servicing, adjustment, and tuning; repair; modification; recovery and evacuation; overhauling and rebuilding; and testing and calibration of Ground Electronics Systems Equipment and miscellaneous electronics systems used by Marine Corps Ground Forces. As a Senior Staff Noncommissioned Officer in a highly technical field, the Electronics Maintenance Chief is qualified to manage the activities of Ground Electronics Maintenance Personnel from diverse maintenance specialties within the MAGTF. Duties may include teaching electronics theory and maintenance best practices, supervising a maintenance shop, writing evaluation test plans, and inspecting units performing electronics maintenance. This MOS is a career progression for Gunnery Sergeants with MOSs 2831, 2862, and 2887.

b. Prerequisites. Security requirement: Secret security clearance eligibility.

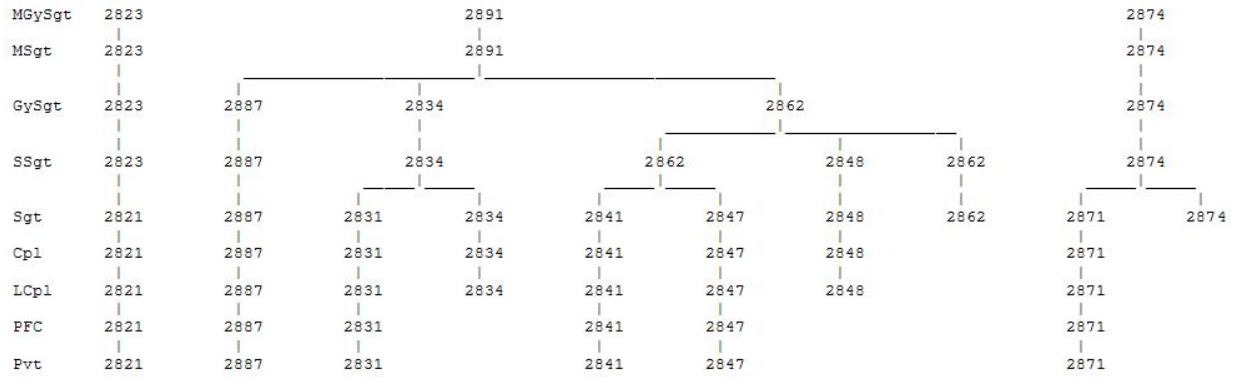
c. Requirements. Must complete the Electronics Maintenance Supervisors Course at MCCES 29 Palms, CA.

<u>CID</u>	<u>TITLE</u>	<u>LOCATION</u>
M09DRN1	Electronics Maintenance Supervisor Course (SNCO)	Twentynine Palms, CA

d. Duties. For a complete listing of duties and tasks, refer to reference (q), 2800 Ground Electronics Maintenance Training and Readiness Manual.

e. Related Standard Occupational Classification (SOC) Title and Code. First-Line Supervisors/Managers of Mechanics, Installers, and Repairers 49-1011.

f. Related Military Skill. Electronics Maintenance Chief, 5993.



- MOS Title
- 2821 Technical Controller (PMOS)
 - 2823 Technical Control Chief (PMOS)
 - 2831 Digital Wideband Systems Maintainer (PMOS)
 - 2834 Advanced Extremely High Frequency (AEHF) Technician (NMOS)
 - 2841 Ground Electronics Transmission Systems Maintainer (PMOS)
 - 2847 Ground Electronics Telecommunications and Information Technology Systems Maintainer (PMOS)
 - 2848 Tactical Remote Sensor System (TRSS) Maintainer (NMOS)
 - 2862 Ground Electronics Systems Maintenance Technician (PMOS)
 - 2871 Calibration Technician (PMOS)
 - 2874 Metrology Technician (PMOS)
 - 2887 Artillery Electronics Technician (PMOS)
 - 2891 Ground Electronics Systems Maintenance Chief (PMOS)

Figure 3-15.--Ground Electronics Maintenance

MOS 2821, Technical Controller (PMOS)

SGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MCI 2820 Electronics Math for Marines
	MOS Assignment:	OPFOR: MAW/MLG/Div/Comm Bn SE: Base/School

CPL	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MCI 2820 Electronics Math for Marines
	MOS Assignment:	OPFOR: MAW/MLG/Div/Comm Bn SE: Base/School

LCPL	Required Training:	Basic Electronic Course
		Technical Controller Course
	Skill Progression:	
	Skill Enhancement:	Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
	MOS Assignment:	MCI 2525B Communication Security OPFOR: MAW/MLG/Div/Comm Bn SE: Base/School/MCTSSA

PFC	Required Training:	Basic Electronic Course
		Technical Controller Course
	Skill Progression:	
	Skill Enhancement:	Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
	MOS Assignment:	MCI 2525B Communication Security OPFOR: MAW/MLG/Div/Comm Bn SE: Base/School

PVT	Required Training:	Basic Electronic Course
		Technical Controller Course
	Skill Progression:	

Figure 3-15.--Ground Electronics Maintenance

Skill Enhancement: Journeyman Electronics Tech
Apprenticeship

MCI 286 Fundamentals of Digital Logic

MCI 287 Intro to Electronic Test
Equipment

MCI 0410 MIMMS

MOS Assignment: MCI 2525B Communication Security
OPFOR: MAW/MLG/Div/Comm Bn
SE: Base/School

MOS 2823, Technical Control Chief (PMOS)

MGYSGT Required Training:
Skill Progression:
Skill Enhancement:
MOS Assignment: **OPFOR:** MARFOR HQ/MEF HQ
SE: Base/School

MSGT Required Training: Electronic Maintenance Supervisors
Course

Skill Progression:
Skill Enhancement: MCI 0414 Ground Maintenance Procedures
for Supervisor/local equivalent

MOS Assignment: **OPFOR:** MARFOR HQ/MAW/Comm Bn
SE: Base/School/MARCORSYSCOM/MCCES

GYSGT Required Training:
Skill Progression:
Skill Enhancement: MIMMS Supervisor Course

MOS Assignment: MCI 2540 Communications Plans and
Orders MCI
OPFOR: Div/Comm Bn
SE: Base/School/DISA/MCTSSA

SSGT Required Training: Advanced Electronics Course

Technical Controller Chief Course

Skill Progression:
Skill Enhancement: Journeyman Electronics Tech
Apprenticeship

MOS Assignment: Regional Maintenance Admin Course
OPFOR: MEU/MLG/MAW/Div/Comm Bn/
MCTSSA/DISA
SE: Base/School

Figure 3-15.--Ground Electronics Maintenance (continued)

MOS 2831, Digital Wideband Systems Maintainer (PMOS)

SGT	Required Training: Skill Progression: Skill Enhancement:	MIMMS Supervisor Course MCI 2540 Communications Plans and Orders MCI 2820 Electronics Math for Marines
	MOS Assignment:	OPFOR: MAW/Comm Bn/MLG SE: School/I&I Staff

CPL	Required Training: Skill Progression: Skill Enhancement:	Microminiature Repair Course MCI 2820 Electronics Math for Marines
	MOS Assignment:	OPFOR: MAW/Comm Bn/I&I Staff/MCTSSA SE: School

LCPL	Required Training: Skill Progression: Skill Enhancement:	Basic Electronic Course Digital Wideband Equipment Repair Course Journeyman Electronics Tech Apprenticeship Regional Maintenance Admin Course MCI 286 Fundamentals of Digital Logic MCI 287 Intro to Electronic Test Equipment MCI 0410 MIMMS MCI 2525B Communication Security
	MOS Assignment:	OPFOR: MAW/Comm Bn SE: School

PFC	Required Training: Skill Progression: Skill Enhancement:	Basic Electronic Course Digital Wideband Equipment Repair Course & Journeyman Electronics Tech Apprenticeship Regional Maintenance Admin Course MCI 286 Fundamentals of Digital Logic MCI 287 Intro to Electronic Test Equipment MCI 0410 MIMMS MCI 2525B Communication Security

Figure 3-15.--Ground Electronics Maintenance (continued)

	MOS Assignment:	OPFOR: OPFOR: MAW/Comm Bn SE: School

PVT	Required Training:	Basic Electronic Course
	Skill Progression:	
	Skill Enhancement:	Digital Wideband Equipment Repair Course & Journeyman Electronics Tech Apprenticeship
		Regional Maintenance Admin Course
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
		MCI 2525B Communication Security
	MOS Assignment:	OPFOR: MAW/Comm Bn SE: School

<u>MOS 2834, Advanced Extremely High Frequency (AEHF) Technician (NMOS)</u>		
GYSGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	
	MOS Assignment:	OPFOR: MHG/Div SE: School/I&I Staff/MARCORSYSCOM/MCTSSA

SSGT	Required Training:	Advanced Electronics
		Electronics Maintenance Technician
	Skill Progression:	
	Skill Enhancement:	MCI 0414 Ground Maintenance Management procedures for Supervisors/local equivalent
	MOS Assignment:	OPFOR: MHG/Div SE: School/I&I Staff/USJFCOM

SGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MIMMS Supervisor Course
		MCI 2540 Communications Plans and Orders
	MOS Assignment:	OPFOR: Div/MHG SE: School/I&I Staff/USJFCOM

CPL	Required Training:	
	Skill Progression:	
	Skill Enhancement:	Microminiature Repair Course

Figure 3-15.--Ground Electronics Maintenance (continued)

	MOS Assignment:	OPFOR: Div/MHG SE: School/I&I Staff

LCPL	Required Training:	Digital Wideband Technician Course
	Skill Progression:	
	Skill Enhancement:	Journeyman Electronics Tech Apprenticeship
	MOS Assignment:	OPFOR: Div/MHG SE: School/I&I Staff

<u>MOS 2841, Ground Electronics Transmission Systems Maintainer (PMOS)</u>		
SGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MIMMS Supervisor Course
	MOS Assignment:	MCI 2820 Electronics Math for Marines OPFOR: Div/MLG/MAW/Comm/Bn Rad Bn SE: Base/School/I&I Staff/MCTSSA/ MARFORSYSCOM/MARFORLOGCOM/USJFCOM

CPL	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MCI 2820 Electronics Math for Marines
	MOS Assignment:	Regional Maintenance Admin Course OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn SE: Base/School/I&I Staff/ MARFORLOGCOM

LCPL	Required Training:	Basic Electronics Course
		Ground Transmission Systems Repair Course
	Skill Progression:	
	Skill Enhancement:	Journeyman Electronics Tech Apprenticeship
		Micro-Miniature Repair Course
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
	MOS Assignment:	MCI 2525B Communication Security OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn SE: Base/School

PFC	Required Training:	Basic Electronics Course
		Ground Transmission Systems Repair Course

Figure 3-15.--Ground Electronics Maintenance (continued)

Skill Progression:
Skill Enhancement: Journeyman Electronics Tech
Apprenticeship

Micro-Miniature Repair Course

MCI 286 Fundamentals of Digital Logic

MCI 287 Intro to Electronic Test
Equipment

MCI 0410 MIMMS

MOS Assignment: MCI 2525B Communication Security
OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn
SE: Base/School

PVT Required Training: Basic Electronics Course

Ground Transmission Systems Repair
Course

Skill Progression:
Skill Enhancement: Journeyman Electronics Tech
Apprenticeship

Micro-Miniature Repair Course

MCI 286 Fundamentals of Digital Logic

MCI 287 Intro to Electronic Test
Equipment

MCI 0410 MIMMS

MOS Assignment: MCI 2525B Communication Security
OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn
SE: Base/School

MOS 2847, Ground Electronics Telecommunications and Information
Technology Systems Maintainer (PMOS)

SGT Required Training:
Skill Progression:
Skill Enhancement: MCI 2820 Electronics Math for Marines
MOS Assignment: **OPFOR:** Div/MLG/MAW/Comm Bn/Rad Bn
SE: Base/School/I&I Staff/
MARFORLOGCOM/MCTSSA

CPL Required Training:
Skill Progression:
Skill Enhancement: Regional Maintenance Admin Course

MCI 2820 Electronics Math for Marines

Figure 3-15.--Ground Electronics Maintenance (continued)

	MOS Assignment:	OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn SE: Base/School/I&I Staff/MCTSSA

LCPL	Required Training:	Telephone System/Personal Computer Intermediate Repair Course
		Basic Electronics Course
	Skill Progression:	
	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
	MOS Assignment:	MCI 2525B Communication Security OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn SE: School/Base/MCTSSA

PFC	Required Training:	Telephone System/Personal Computer Intermediate Repair Course
		Basic Electronics Course
	Skill Progression:	
	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
	MOS Assignment:	MCI 2525B Communication Security OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn SE: Base/School

PVT	Required Training:	Telephone System/Personal Computer Intermediate Repair Course
		Basic Electronics Course
	Skill Progression:	

Figure 3-15.--Ground Electronics Maintenance (continued)

Skill Enhancement: Micro-miniature Repair Course
 Journeyman Electronics Tech
 Apprenticeship
 MCI 286 Fundamentals of Digital Logic
 MCI 287 Intro to Electronic Test
 Equipment
 MCI 0410 MIMMS
 MOS Assignment: MCI 2525B Communication Security
OPFOR: Div/MLG/MAW/Comm Bn/Rad Bn
SE: Base/School

MOS 2848, Tactical Remote Sensor System (TRSS) Maintainer (NMOS)

SSGT Required Training:
 Skill Progression:
 Skill Enhancement:
 MOS Assignment: **OPFOR:** Intel Bn
SE: School

SGT Required Training:
 Skill Progression:
 Skill Enhancement: MIMMS Supervisor Course
 MCI 2540 Communications Plans and
 Orders
 MOS Assignment: MCI 2820 Electronics Math for Marines
OPFOR: Intel Bn
SE: School

CPL Required Training:
 Skill Progression:
 Skill Enhancement: Regional Maintenance Course
 MOS Assignment: MCI 2820 Electronics Math for Marines
OPFOR: Intel Bn
SE: I&I Staff

LCPL Required Training: Tactical Remote Sensor System
 Maintenance Course
 Skill Progression:

Figure 3-15.--Ground Electronics Maintenance (continued)

Skill Enhancement: Journeyman Electronics Tech
Apprenticeship

Micro-miniature Repair Course

MCI 286 Fundamentals of Digital Logic

MCI 287 Intro to Electronic Test
Equipment

MCI 0410 MIMMS

MOS Assignment: MCI 2525B Communication Security
OPFOR: Intel Bn
SE: None

MOS 2862, Ground Electronics Systems Maintenance Technician (PMOS)

GYSGT Required Training:
Skill Progression:
Skill Enhancement: MCI 0414 Ground Maintenance Management
for Supervisors/local equivalent

MOS Assignment: **OPFOR:** Div/MLG/MAW/Comm Bn/Rad Bn/
Intel Bn
SE: Base/School/I&I Staff/
MARCORSYSCOM/MARFORLOGCOM/MCTSSA/FSMAO/
USJFCOM

SSGT Required Training: Advanced Electronics

Electronics Maintenance Technician

Skill Progression:
Skill Enhancement:
MOS Assignment: **OPFOR:** Div/MLG/MAW/Comm Bn/Rad Bn/
Intel Bn
SE: Base/School/I&I Staff/
MARCORSYSCOM/MARFORLOGCOM/MCTSSA

MOS 2871, Calibration Technician (PMOS)

SGT Required Training:
Skill Progression:
Skill Enhancement: MIMMS Supervisor Course

MOS Assignment: MCI 2820 Electronics Math for Marines
OPFOR: MLG
SE: Base/School/MARFORLOGCOM

CPL Required Training:
Skill Progression:
Skill Enhancement: Regional Maintenance Admin Course

MCI 2820 Electronics Math for Marines

Figure 3-15.--Ground Electronics Maintenance (continued)

	MOS Assignment:	OPFOR: MLG/MAW SE: Base/School/MARFORLOGCOM

LCPL	Required Training:	Calibration Technician Course
	Skill Progression:	
	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
	MOS Assignment:	MCI 0410 MIMMS OPFOR: MLG/MAW SE: Base/School/MARFORLOGCOM

PFC	Required Training:	Calibration Technician Course
	Skill Progression:	
	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
	MOS Assignment:	MCI 0410 MIMMS OPFOR: MLG/MAW SE: Base/School

PVT	Required Training:	Calibration Technician Course
	Skill Progression:	
	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
	MOS Assignment:	MCI 0410 MIMMS OPFOR: MLG/MAW SE: Base/School

MOS 2874, Metrology Technician (PMOS)

MGYSGT Required Training:
 Skill Progression:

Figure 3-15.--Ground Electronics Maintenance (continued)

	Skill Enhancement:	
	MOS Assignment:	OPFOR: None. SE: Base/School/MARCORSYSCOM

MSGT	Required Training:	Electronic Maintenance Supervisor Course
	Skill Progression:	
	Skill Enhancement:	
	MOS Assignment:	OPFOR: MLG SE: MARCORSYSCOM

GYSGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MCI 0414 Ground Maintenance Management Procedures for Supervisors/local equivalent
	MOS Assignment:	OPFOR: MLG/MAW SE: Base/School/MARCORLOGCOM

SSGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	
	MOS Assignment:	OPFOR: MLG/MAW SE: Base/School/MARCORLOGCOM

SGT	Required Training:	Metrology Technician Course
	Skill Progression:	
	Skill Enhancement:	Physical Measurement and Calibration Journeyman Micro-miniature Repair Course Radica Instrument Maintenance Journeyman Electronics Tech Apprenticeship MIMMS Supervisor Course
	MOS Assignment:	OPFOR: MLG/MAW SE: Base/School/MARCORSYSCOM/MARCORLOGCOM

		<u>MOS 2887, Artillery Electronics Technician (PMOS)</u>
GYSGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MCI 0414 Ground Maintenance Management Procedures for Supervisors/local equivalent
	MOS Assignment:	OPFOR: Div SE: School/MARCORSYSCOM

SSGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	

Figure 3-15.--Ground Electronics Maintenance (continued)

	MOS Assignment:	OPFOR: Div SE: School/MARCORSYSCOM/MARFORLOGCOM

SGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	MIMMS Supervisor Course
		MCI 2540 Communications Plans and Orders
		MCI 2820 Electronics Math for Marines
	MOS Assignment:	OPFOR: Div SE: School

CPL	Required Training:	
	Skill Progression:	
	Skill Enhancement:	Regional Maintenance Admin Course
		MCI 2820 Electronics Math for Marines
	MOS Assignment:	OPFOR: Div SE: None

LCPL	Required Training:	Basic Electronics Course
		Marine Artillery Electronics Maintenance Course
	Skill Progression:	
	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
		MCI 2525B Communication Security
	MOS Assignment:	OPFOR: Div SE: None

PFC	Required Training:	Basic Electronics Course
		Marine Artillery Electronics Maintenance Course
	Skill Progression:	

Figure 3-15.--Ground Electronics Maintenance (continued)

	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
	MOS Assignment:	MCI 2525B Communication Security OPFOR: Div SE: None

PVT	Required Training:	Basic Electronics Course
		Marine Artillery Electronics Maintenance Course
	Skill Progression:	
	Skill Enhancement:	Micro-miniature Repair Course
		Journeyman Electronics Tech Apprenticeship
		MCI 286 Fundamentals of Digital Logic
		MCI 287 Intro to Electronic Test Equipment
		MCI 0410 MIMMS
	MOS Assignment:	MCI 2525B Communication Security OPFOR: Div SE: None

MOS 2891, Ground Electronics Systems Maintenance Chief (PMOS)

MGYSGT	Required Training:	
	Skill Progression:	
	Skill Enhancement:	
	MOS Assignment:	OPFOR: MARFOR/Div/MAW/MLG SE: Base/School/MARCORSYCOM

MSGT	Required Training:	Electronics Maintenance Supervisor
	Skill Progression:	
	Skill Enhancement:	
	MOS Assignment:	OPFOR: MARFOR/Div/MAW/MLG SE: Base/School/I&I Staff/ MARCORSYCOM/MARFORLOGCOM/FSMAO

Figure 3-15.--Ground Electronics Maintenance (continued)