**Air Control Training Squadron (ACTS)**

**Communication Electronics Maintenance School
(ACTS-Company A)**

The Communication Electronics Maintenance School (CEMS) (Company A) is responsible for training the 2800 MOS field.

**Electronics Fundamentals Training Section (EFTS)**

**Basic Electronics Course (BEC) [CID: M092721]**

The Basic Electronics Course (BEC) teaches basic electricity, electronics, digital logic, computer operations, circuit principles, troubleshooting and soldering. It prepares entry-level Marines to attend follow-on electronic equipment repair courses. All Marines entering the 28XX field are required to be graduates of BEC.

**Advanced Electronics Course (AEC) [CID: M09DSK1]**

The Advanced Electronics Course (AEC) teaches advance electronics and circuit theory, circuit simulation and analysis, and advanced logical troubleshooting. It prepares career-level Marines to attend follow-on advanced electronic equipment repair courses.

**Micro-miniature Repair Course (MMRC, MOS 8641) [CID: M09E2D1]**

The Micro-miniature Repair Course (MMRC) teaches entry-level and Fleet Marines to use automated test equipment to isolate faults on circuit card assemblies, develop test routines for various circuit card assemblies and to repair identified component faults using advanced soldering techniques. Advanced Soldering instruction includes wire termination fundamentals and techniques, removal and replacement of miniature and micro-miniature components that are surface mounted or plated-through hole mounted. The “2M” Technicians produced in this course will also have the ability to repair, reconstruct and resurface laminates and other various surface types that are used in common circuit cards.

**Radio Maintenance Training Section (RMTS)**

**Ground Radio Repair Course (GRRC, MOS 2841) [CID: M09E3K1]**

The Ground Radio Repair Course (GRRC) teaches analysis, troubleshooting, maintenance, restoration and repair of ground transmission systems. The graduates of GRRC are able to repair ground transmission systems at the line replaceable unit, shop replaceable unit and chassis-mounted component levels.

**Digital Wideband Repair Course (DWRC, MOS 2831) [CID: M09D3C1]**

The Digital Wideband Repair Course (DWRC) teaches the fundamentals of digital and microwave communications, multi-channel transmission principles, FM transceivers, satellite communications theory, and component level troubleshooting to entry-level Marines.

**Tactical Remote Sensor System Maintenance Course (TRSSMC, NMOS 2848) [CID: M09DRP1]**

The Tactical Remote Sensor System Maintenance Course (TRSSMC) teaches installation, operation, circuit analysis, inspection, testing, and troubleshooting of the Tactical Remote Sensor System to Marines who have a need and already hold the 2841 or 2862 Military Occupational Specialty.

**Terminal Equipment Training Section (TETS)**

**Telephone Systems and Personal Computer Repair Course (TSPCRC, MOS 2847)
[CID: M09DSE1]**

The Telephone Systems and Personal Computer Repair Course (TSPCRC) teaches theory, circuit analysis, operation, troubleshooting, restoration, and repair of telephone systems, computers, computer peripherals, and cryptographic equipment to entry-level Marines.

**Electronics Maintenance Technician Course (EMTC, MOS 2862) [CID: M09DSJ1]**

The Electronics Maintenance Technician Course (EMTC) teaches the knowledge and skills required for advanced corrective maintenance of ground/data communications equipment to the piece part component level. Students learn Advanced Radio Troubleshooting, Radio Automated Test Equipment, Line of Sight Communications, Digital Wideband Communications, Satellite Communications, Telephony Switching, Tactical Networks, Systems Integration, and Maintenance Management.

**Electronics Maintenance Supervisor Course (SNCO) (MOS 2891) [CID: M09DRN1]**

The Electronics Maintenance Supervisor Course (SNCO) provides instruction on the communication-electronics capabilities of the Marine Corps and other services operating in the joint arena; structure of CMC, MCSC, and MCLB relative to material fielding's, procurement, and maintenance support programs; Marine Corps maintenance philosophy and management; general shop organization and operation; personnel and training management; supply and logistics responsibilities; deployment planning and execution, Continuous Process Improvement, and providing technical expertise/input to the commander.

**Electronics Maintenance Supervisor Course (WO) (MOS 2805) [CID: M09DNZ1]**

The Electronics Maintenance Supervisor Course (WO) enhances MOS and general managerial skills of newly promoted 2805 Warrant Officers assigned to maintenance supervisory positions and to allow newly promoted Warrant Officers the opportunity to work with 2891 Master Sergeants in a Maintenance Officer to Maintenance Chief relationship. This course provides instruction in ground communication-electronics maintenance capabilities of the Marine Corps; structure of HQMC C4I, SYSCOM, and LOGCOM relative to procurement and program support; Marine Corps maintenance philosophy and management; shop organization and operation; budget formulation and maintenance cost control; personnel management and training; system siting, grounding, and electro-magnetic interference; CMS/EKMS policies and procedures; environmental responsibilities; Continuous Process Improvement; and pending/future communication-electronics maintenance programs and challenges.

**Air Schools (ACTS-Company C)**

The Air Schools (AIRS) (Company C) is responsible for training of 7200 and 5900 MOSs.

**Air Support Training Section (ASTS)**

**Air Support Control Officer Course (ASCOC, MOS 7208) [CID: M09T0A1]**

The Air Support Control Officer Course (ASCOC) provides the entry level Marine Officer student with a thorough knowledge of the six functions of Marine Corps Aviation, Marine Air Ground Task Force (MAGTF) operations, and how they directly relate to Direct Air Support Center (DASC) operations. Emphasis is placed on procedures related to processing immediate air requests, integration of indirect fire, management of terminal control assets, and procedural control of aircraft operating within DASC airspace. Students will have the opportunity to conduct practical application exercises of lessons they have learned prior to their performance based examination which are conducted in a simulated DASC environment. The introduction of the most current Command and Control data systems are presented to the students and integrated into DASC operations. This course is taught concurrently with the Air Support Operations Operator Course (CID M0967L1) to maximize and enhance the DASC crew training concept.

**Air Support Operations Operator Course (ASOOC, MOS 7242) [CID: M0967L1]**

The Air Support Operations Operator Course provides the entry level enlisted student with a thorough knowledge of the six functions of Marine Corps Aviation, Marine Air Ground Task Force (MAGTF) operations, and how they directly relate to Direct Air Support Center (DASC) operations. Emphasis is placed on procedures related to processing immediate air requests, integration of indirect fire, management of terminal control assets, and procedural control of aircraft operating within DASC airspace. Students will have the opportunity to conduct practical application exercises of lessons they have learned prior to their performance based examination which are conducted in a simulated DASC environment. The introduction of the most current Command and Control data systems are presented to the students and integrated into DASC operations. This course is taught concurrently with the Air Support Control Officer Course (CID M09T0A1) to maximize and enhance the DASC crew training concept.

**Air Defense Training Section (ADTS)**

**Air Defense Control Officer Course (ADCOC, MOS 7210) [CID: M0972M1]**

The Air Defense Control Officer Course provides the provides the entry level Marine Officer student with comprehensive knowledge of the Tactical Air Operations Center (TAOC), to include the functional, operational and doctrinal issues involving the employment of aviation command and control systems. Students will be taught how to utilize tactical data links, perform airspace surveillance and supervise the surveillance section as a Surveillance Director. Students will also perform airspace control as a member of the weapons section and learn how to conduct mission planning. Additionally, this course will provide the student with a thorough knowledge of integration within the Marine Air Control Squadron and the Marine Air Command and Control System in support of the Marine Air Ground Task Force.

**Air Control Electronics Operator Course (ACEOC, MOS 7236) [CID: M0972P1]**

The Air Control Electronics Operator Course provides the enlisted entry-level student with a thorough knowledge of the Tactical Air Operations Center (TAOC) to include the functioning and operation of the AN/TYQ-23(V)4 Tactical Air Operations Module (TAOM), Air Defense Communications Platform (ADCP), and Theater Battle Management Core Systems (TBMCS) with emphasis on the following: assisting in air intercept and missile control; crew data link training; integration of agencies within the Marine Air Command and Control System; communications; aircraft characteristics and weapons systems; practical application of air control procedures using simulated radars/aircraft; and FMF operations. The ACEOC is conducted concurrently with the Air Defense Control Officer Course (ADCOC) and the Tactical Air Defense Controller Course (TADCC) to maximize crew training.

**Low Altitude Air Defense (LAAD) Training Section**

**LAAD Basic Officer Course (LBOC, MOS 7204) [CID: M09ANS1]**

The LAAD Basic Officer Course provides the Marine Officer entry-level student with a thorough knowledge of employing a Platoon of Low Altitude Air Defense Gunners in the MAGTF. Officer students are taught the internal components, capabilities and limitations of the stinger missile. Practical applications are employed and evaluated in all phases of instruction in the Improved Missile Tracking Stimulator (IMTS) and multiple live tracking exercises where simulated firing procedures of the stinger missile are conducted and evaluated. The cumulating event of the course is the engagement of an aerial target with a live stinger missile.

**LAAD Basic Gunner Course (LBGC, MOS 7212) [CID: M092141]**

The LAAD Basic Gunner Course provides the enlisted entry-level student with a thorough knowledge of the duties of a Low Altitude Air Defense Gunner in the MAGTF. Emphasis is placed on training the students in basic understanding of how the LAAD Community operates within the Marine Air Command and Control System. The students are taught the components, capabilities and limitations of the Stinger missile and the operation of the M240 Medium Machine Gun and M2 Heavy Machine Gun. Practical applications are employed and evaluated in all phases of instruction in the Improved Missile Tracking Simulator (IMTS) and multiple live tracking exercises where simulated firing procedures of the Stinger missile and machine guns are conducted and evaluated. The cumulating event of the course is the engagement of an aerial target with a live Stinger missile.

**Radar Maintenance Training Section (RDRMTS)**

**Aviation Radar Fundamentals Course (ARFC, MOS 5948) [CID: M0924X1]**

The Aviation Radar Fundamentals Course provides training in the fundamentals of radar. Instruction includes radar technology, microwave principles, basic electronics, and electronic components as they apply to radar theory. Students receive instruction in radar transmitters and receivers, radar antennas and antenna control, as well as the different types of radars. How target size and shape affect detection are covered, as well as target indicators, fundamentals of target detection, and radar processing techniques. Principles of identification friend or foe for modes currently used and operation and maintenance of the Digital Interrogator AN/UPX-37 are covered. Mathematical formulas and their relation to radar parameters are covered. Students receive training in safety issues involving radars as well as general test equipment use, troubleshooting techniques and fault isolation through the utilization of block diagrams. The students are introduced to electronic warfare and countermeasures as they relate to radars.

**AN/TPS-59A(V)3 Aviation Radar Repair Course (MOS, 5948) [CID: M09A841]**

The AN/TPS-59A(V)3 Aviation Radar Repair Course provides technical instruction on the AN/TPS-59A(V)3 Radar, ancillary equipment and associated equipment organic to the operating forces. Instruction encompasses the overall concept of operation, assembly and disassembly, alignments, built-in status devices, special tools, the interrelation of subassemblies, and IFF equipment. It also includes corrective and preventive maintenance, reading and interpretation of schematic diagrams, servicing block diagrams, flow charts, and maintenance publications.

**Advanced Radar Theory Course (ART, MOS 5948) [CID: M09A851]**

The Advanced Radar Theory Course is a skill progression course that provides instruction on advanced radar theory and the tactical employment of surveillance radars. It also meets the Commanding General's intent regarding grade and MOS appropriate Train-The-Trainer Integration (T3I) per CG TECOM GTB 172137Z Feb 09, Refined guidance to Train The Trainer (T3) Integration in the Training and Education continuum.

**AN/TPS-59A(V)3 Skill Progression Course (MOS, 5948) [CID: M09A821]**

The AN/TPS-59A(V)3 Skill Progression Course is a skill progression course that provides advanced radar theory and technical instruction on the AN/TPS-59A(V)3 Radar, ancillary equipment, and associated equipment organic to the Marine Air Control Squadron. Instruction encompasses the overall concept of operation and interrelation of subassemblies and circuitry peculiar to the radar system and associated equipment. Training includes operational adjustments, alignments, use of built-in status devices, use of system software functions, network functions, test routines, and special tools. Corrective maintenance training includes system troubleshooting, the use of special purpose test equipment, use of block diagrams, flow charts, schematics, and technical manuals.

**Tactical Data Systems Training Section (TDSTS)**

**5900 Common Course (59CC, MOS 59XX) [CID: M091J31]**

The 5900 Common Course is a feeder course that teaches students the basic concepts of electronics, cable repair, grounding, basic radio communications and information technology. It prepares the entry-level student for follow-on training in 5900 MOS schools. This course provides basic instruction in the following areas:
-Basic electronics
-Cable repair
-Grounding
-Introduction to the Marine Air Command and Control System
-RF communications
-Cryptographic equipment
-Information Technology

**Aviation Communication Systems Technician Course (ACSTC, MOS 5939) [CID: M09E2Z1]**

The Aviation Communication Systems Technician Course provides training on the maintenance of radios and communications systems found within selected units of the Marine Air Control Group. It includes installation, operation, performance testing, alignment, troubleshooting and repair of all aviation-peculiar voice communications equipment used within the Direct Air Support Center, Tactical Air Command Center, and Tactical Air Operations Center. This course also includes instruction in the use of technical publications and familiarization with applicable aspects of maintenance documents.

**Tactical Data Systems Administrator Course (TDSAC, MOS 5974) [CID: M09DZC1]**

The Tactical Data Systems Administrator Course provides instruction on the Tactical Data Systems Administrator (TDSA) duties within the Marine Air Command and Control System (MACCS). Students receive training on the fundamental concepts and operations of the UNIX and Windows systems. Students receive training on network components, principles, and configuration. Course instruction includes the maintenance and operations of Data Links and the various systems used to establish them.

**Air Defense Systems Technician Course (ADSTC, MOS 5979) [CID: M09KAS1]**

The Air Defense Systems Technician Course trains the Marine entry-level student to perform field level maintenance on the Air Defense Systems within the Marine Air Control Squadron (MACS). Marines learn the AN/TSQ-269 Mobile Tactical Air Operations Module (MTAOM), AN/MSQ-143 Composite Tracking Network (CTN), AN/MRQ-13 Communications System (CS), TAOM Interface Unit (TIU), and AN/TYQ-145 Joint Range Extension Data Link Translator (JRE-DLT). The students learn these systems in three phases: configuration, operations, and maintenance. During the configuration phase, the Marines learn how to install system components and system turn-on/shutdown procedures for the different systems. In the operations phase, the students configure the equipment to perform the equipment's voice or data link capability. The students also learn radio and data link theory. In the maintenance phase, the students learn the alignment, testing, maintenance and repair of electronic assemblies and subassemblies; and to perform corrective maintenance procedures using Technical Manuals (TMs) and an Interactive Electronic Technical Manuals (IETM). The students are taught how to correctly diagnose, troubleshoot, and isolate malfunctions to the Lowest Replaceable Unit (LRU), and how to verify the malfunction has been repaired. The functional areas (equipment groups) include system level, operator interface, data processing, digital communications, radar interface, and voice communications equipment. Students in this course are taught the fundamentals of the UNIX and Windows Operating Systems (OSs), application programs, software segments, and basic system administration responsibilities pertaining to Air Defense Systems. Students will also be taught fiber optic cable repair.

**MACCS Warrant Officer Course [CID: M0968K1]**

The MACCS Warrant Officer Course qualifies Aviation Radar Systems Maintenance Officers (PMOS 5910) and Tactical Data Systems Maintenance Officers (PMOS 5970) in their Core Skill Introduction Phase (1000 level) Training and Readiness (T&R) events. Per the MOS Manual (NAVMC 1200.1C), Air Traffic Control Systems Maintenance Officers (PMOS 5950) "should complete" this training. This course provides instruction in the communication-electronics capabilities of the Marine Air Command and Control System (MACCS); Marine Corps ground maintenance philosophy and management; shop organization and operation; budget formulation and maintenance cost control; personnel management and training; and accountability of government property.

**Explosive Ordnance Disposal Advanced Training Section (EODATC)**

**Explosive Ordnance Disposal Officer Course (EODOC, MOS 2305) [CID: M09B0E1]**

The EOD Officer Course emphasizes mastery of fundamental skills and techniques required by EOD Officers to plan, develop, and execute EOD operations. The course provides instruction in integrating EOD functions into the Marine Corps Planning Process (MCPP), management of EOD operations, to include EOD reporting, managing Class V, and applying the Military Munitions Rule (MMR), thus making the EOD Officers better trained to manage EOD personnel in support of the Marine Air Ground Task Force (MAGTF) and supporting establishments.

**Explosive Ordnance Disposal Supervisor Course (EODSC, MOS 2336) [CID: M09BNX1]**

The Explosive Ordnance Disposal Supervisor Course covers a variety of EOD missions to include, administrative, operational, and supervisory tasks. This course will be accomplished by developing the leadership and advanced skill set necessary to complete all aspects of EOD missions in support of the Marine Air Ground Task Force (MAGTF). This course will greatly enhance the Element Leader skill sets in the areas of leadership, administration, supervision, and implementation of EOD specific publications, orders, and directives. This course will produce a more technically and tactically proficient EOD Element Leader to better serve the needs of the EOD community, MAGTF, and the Marine Corps as a whole. These lessons will encompass the duties that will be performed by EOD Element Leaders in both CONUS and OCONUS environments.

**Explosive Ordnance Disposal Manager Course (EODMC, MOS 2336) [CID: M09BNY1]**

The Explosive Ordnance Disposal Manager Course covers a variety of EOD missions to include, administrative, operational, and supervisory tasks. This course will be accomplished by developing the leadership and advanced skill set necessary to complete all aspects of EOD management in support of the Marine Air Ground Task Force (MAGTF), Homeland Security, and Supporting Establishments. This course will develop the students skill sets in the areas of leadership, administration, supervision, and implementation of EOD specific publications, orders, and directives. This course will produce more technically and tactically proficient EOD Managers to better serve the needs of the EOD community, MAGTF, and the Marine Corps as a whole. These lessons will encompass the duties that will be performed by EOD SNCOIC's, section leaders and platoon sergeants in both CONUS and OCONUS environments.

**Explosive Ordnance Exploitation Course (EOEC, MOS 2336) [CID: M09BNZ1]**

The Explosive Ordnance Exploitation Course (EOEC) provides training for EOD officers and enlisted in the tactics, techniques, and procedures for exploiting explosive ordnance to include U.S. and foreign ordnance items. The EOEC is designed as a 15 training day course emphasizing the detailed planning and operation of exploitation events utilizing approved and validated procedures that encompass disassembly, stripping, and inerting of explosive ordnance and components. This course will provide instruction in the EOD suite of exploitation tools, development of written procedures, and the conduct of exploitation operations, thus making EOD officers and enlisted technicians better trained and guided to perform the task of exploitation for the Marine Air Ground Task Force (MAGTF).