**Communication Training Battalion (CTB)**

**Enlisted Entry Level Tactical Communication Training School
(CTB-Company B)**

Company B trains all 06XX enlisted entry level Marines.

**Transmission Training Section (TTS)**

**Transmission Systems Operator Course (TSOC, MOS 0621) [M0925U1]**

The Transmissions System Operator Course (TSOC) trains and qualifies Marines to install, operate, and maintain (IOM) at the crew/operator level, single channel and LOS multi-channel radio equipment. Instructional topics include equipment specific knowledge and skills applicable to common USMC single channel and multichannel transmission equipment. Classroom training is followed by a field exercise designed to allow the students the opportunity to practice and refine newly learned abilities in a realistic environment.

**Troposcatter Transmissions System Operator Course (TTSOC, MOS 0623) [M09DRW1]**

The Troposcatter Transmissions System Operator Course (TTSOC) trains and qualifies Marines to install, operate and maintain (IOM) at the first echelon, multi-channel communication equipment, AN/TRC-170(V)5. Instructional topics include equipment specific knowledge and skills. Classroom training is followed by a field exercise designed to allow the students the opportunity to practice and refine newly learned abilities in a realistic environment.

**Telecommunication Systems Training Section (TSTS)**

**Basic Communication Course (BCC, MOS 06XX) [M09KJT1]**

The Basic Communication course is designed to provide Marines at the entry level the necessary knowledge and skills to prepare them for further training in various communications MOS fields. This training includes basic knowledge of communications as well as function specific knowledge in Transmissions, Networking and Cybernetic operations.

**Network Administrator Course (NAC, MOS 0631) [M09CVS1]**

The Network Administrator Course provides instruction on installing, operating and maintaining Local Area Networks (LAN) and Wide Area Networks (WAN) to enable command and control. Instruction includes routing/switching configuration, premise wiring and installation of network components, establishing technical control sites, conducting fault analysis, circuit testing and end to end troubleshooting. Instruction also includes, network monitoring and Quality of Service (QOS) to maintain adequate bandwidth utilization in support of communication networks and data services. The students are taught how to maintain records on activation/deactivation of communications links and maintenance actions performed. Graduates will be familiar with routing protocols, Virtual Private Networks (VPN), Internet Protocol Security (IPSEC), subnetting, traffic monitoring and cybersecurity.

**Cyber Systems Training Section (CSTS)**

**Data Systems Administrator Course (DSAC, MOS 0671) [M09CVQ1]**

The Data Systems Administrator Course consists of training in telephony fundamentals, VMware, Microsoft Server, Microsoft Exchange, Solarwinds Network Performance Monitor, Host Based Security Systems implementation, Assured Compliance Assessment System and tactical communication systems, which includes training on tactical communication processes and setup, and configuration and operation of data communications equipment. Students also receive instruction in cyber security to include training on information assurance and setup, configuration and operation of encryption devices. A cumulative final exercise completes this course and consists of evaluating the students' ability to perform all tasks learned throughout the training evolution.

**Officer/Advanced Enlisted Training School (CTB-Company D)**

The Officer/Advanced Enlisted Training School (Company D) is responsible for training of the 0600 officer and career level enlisted Marines.

**Officer Training**

**Basic Communications Officer Course (BCOC, MOS 0602) [M09LC51]**

The Basic Communications Officer Course provides leadership and technical training in communications and data systems in order to prepare company grade officers for entry level billets at the Battalion and Squadron Level. The primary emphasis of this course is to the mastery of fundamental techniques and skills required for the planning and employment of Marine Corps communications systems in both the tactical and garrison environment. This course covers the duties and responsibilities of the Communications Platoon Commander and S-6 Staff Officer to include the preparation of command and control plans and orders used by the Marine Air Ground Task Forces. This is accomplished by familiarizing the student with the operational characteristics of communications systems and the techniques for their employment at the Battalion and Squadron Communications Platoon level.

**MAGTF Communications Planner Course (MCPC, NMOS 0603) [M09DRX1]**

The MAGTF Communications Planner Course provides planning and technical skill progression training in communication and data systems in order to prepare Captains (MOS 0602) for advanced level billets at the Marine Expeditionary Unit S-6, regiment S-6, Communication Battalion/Squadron Operations Officer, and Major Subordinate Command (MSC) G-6 levels. The Primary emphasis of this course is on the advanced skills required for the planning, coordinating, synchronizing, and de-conflicting of transmission systems, multiplexing systems, telephony systems and services, and data systems and services for a MAGTF communications architecture. This course focuses on the understanding, proper planning, and employment considerations for DoD Information Operations (DODIN Ops) and defensive cyberspace operations (DCO) with cyberspace operations. Specifically, this course will instruct the applications of DODIN Ops and DCO with the Marine Corps Planning Process (MCPP) at the major subordinate command (MSC) and major subordinate element (MSE) level in support of MAGTF exercises and operations. Furthermore, this course will present an introduction and overview of joint communications planning.

**Advanced Transmission Training Section**

**Transmissions Chief Course (TCC, MOS 0629) [M09BNL1]**

The Transmissions Chief course provides instruction on the installation, operation, maintenance, and supervision of advanced transmissions operations; development of site plans for Line of Site (LOS), troposcatter and satellite communications systems; and the coordination of the development of the Communications Electronic Operating Instruction (CEOI). The Transmissions Chief student also receives instruction on his/her responsibilities for training, security measures, employment of transmission equipment, systems integration with networks for all elements of transmission, data communications, wireless architecture and cybersecurity. Additionally, Transmissions Chiefs are thoroughly familiarized with frequency management, spectrum requirements, programming and planning tools, maintenance procedures, budgeting, and administration processes.

**Space and Waveform Integration Officer Course (SWIOC, MOS 0620) [M09CHP1]**

The Space and Waveform Integration Officers Course (SWIOC), provides the WO student instruction on the designing, engineering, planning, and directing of Over-The-Air (OTA) transport of MAGTF and C/JTF communications networks to include the integration of multiple spectrum dependent platforms in support of DODIN Ops. This course teaches the SWIOs how to engineer secure and resilient OTA transport architectures which leverage space capabilities for the MAGTF and C/JTF across the range of military operations. This course provides a thorough familiarization with military and commercial OTA transport and space systems. As well as providing instruction on electromagnetic spectrum theory, space policy, space theory, waveform theory, waveform analysis, waveform engineering, waveform integration, and OTA transport security measures; to include defensive countermeasure techniques of EMI in a contested, degraded, and operationally limited (CDO) environment; and effective use and integration of disparate OTA transport platforms and systems into a complex bandwidth constrained operational EME within the breadth of the space domain. Additionally, instruction is provided on the conduct of technical analysis required to integrate communications systems in the development of Marine Corps plans and policy for current and future operations.

**Advanced Telecommunications Training Section**

**Network Chief Course (NCC, MOS 0639) [M0923X1]**

The Network Chief Course provides instruction on the planning and implementation of the following topics; cable management, planning operations, internet protocol (IP) address engineering, interior and exterior routing protocols, local and wide area networks, network operations, network services, network security and firewalls. Network Chiefs install, operate, maintain, and supervise Local Area Networks (LAN) and Wide Area Networks (WAN) to enable command and control. The Network Chief is responsible for training, advanced routing/switching, locating and correcting faults, Quality of Service (QoS), implementation/management of the cable plan, long haul transport, Internet Protocol (IP) Management, encryption management, network monitoring, end to end systems integration and troubleshooting. Additionally, Network Chiefs must be thoroughly familiar with security, programming and planning tools, maintenance procedures, budgeting, and administration processes.

**Network Engineering Officer Course (NEOC, MOS 0630) [M09DRS1]**

The Network Engineering Officer Course provides instruction on the analysis, design, deployment, maintenance and management of network infrastructure and application components in support of command and control. Instruction encompasses both the theoretical and engineering aspects of specifying, designing, implementing and managing enterprise level classified and unclassified information and transport networks. As well as the duties of mission planning, budgeting, quality control, advanced technical analysis during the planning, installation, operation, maintenance and secure integration of advanced routing/switching, Quality of Service (QoS), implementation/management of the cable plan, circuit provisioning, transport, Internet Protocol (IP) Management, encryption management, network monitoring, network defense, and end to end troubleshooting in support of deployed and garrison services to include external connectivity to Joint, National, and Coalition systems. The student is taught how to provide technical direction to the subsets of network administration in conjunction with the overall communications control effort relating to the security, installation and performance of network infrastructure systems within the MAGTF, Joint, Coalition and fixed infrastructure (garrison) networks.

**Communications Chief Course (CCC, MOS 0699) [M09CHN1]**

The Communications Chief Course provides the student an overall knowledge of the equipment capabilities and system integration for all elements of Transmissions, Networks, Data Systems, Cybersecurity, and Communications Security Management found within the Marine Corps. The student is exposed to MAGTF and Joint Service structure, introduced to Department of Defense Information Network (DODIN) Operations, draft systems architecture and communications plans, and coordination of technical interface and restoration issues with higher, adjacent, and subordinate commands. Upon completion of the prescribed course the student will be able to effectively plan, design, and manage all aspects of Marine Corps Communications.

**Advanced Cyber Systems Training Section**

**Data Systems Chief Course (DSCC, MOS 0679) [M0923W1]**

The Data Systems Chief Course provides instruction on a myriad of technologies to include Systems, Virtualization, Unified Communications and Application Development to enable command and control. This course provides instruction on the responsibilities for training, domain infrastructure, active directory management, cloud services, disaster recovery, database management, scripting, hardware/software management, Storage Area Network (SAN), Network Attached Storage (NAS), Virtualization, and Messaging. Additionally, the students are provided a thorough familiarization with security, programming and planning tools, maintenance procedures, budgeting, and administration processes.

**Data Systems Engineering Officer Course (DSEOC, MOS 0670) [M09D2M1]**

The Data Systems Engineering Officer Course trains select warrant officers to analyze, design, deploy, maintain, and manage servers and services in support of command and control. They develop documentation in the form of Appendices, Tabs, and Exhibits within the Annex K of an Operations Order to ensure effective employment of communications networks in current and future operations. Additionally, through the deliberate planning process, they provide technical guidance required to procure and integrate communications systems in the development of Marine Corps plans and policy for current and future operations.

**Cybersecurity Managers Course (CSMC) [M09D3H1]**

The Cybersecurity Managers Course introduces the distinct elements and aspects of Information Assurance (IA), Computer Network Defense (CND), and Cybersecurity. The instruction revolves around the establishment and management of a Marine Corps Command's Cybersecurity Program that ensures the information and information systems are secure and a program that provides information confidentiality, integrity, availability, non-repudiation, and authentication. Practical experience is provided in identifying threats and vulnerabilities associated with sensitive information stored in information systems and providing safeguards against unauthorized access, modification, destruction, and denial of services. Topics presented include: Current IA, CND, and Cybersecurity policies, policy development, roles and responsibilities, CND solutions and activities, security assessment methodologies, risk management program, risk assessment methodologies, contingency planning, security test and evaluation, assessment and authorization process, Risk Management Framework (RMF), Information Condition (INFOCON) procedures, IA vulnerability management, physical security, malicious code protection, sensitive data handling procedures, incident response and reporting procedures, connection approval processes, multiple platform level security, application level security, encryption requirements, system auditing, organization security training, and development of a security training and awareness program.

**Cybersecurity Technician Course (CSTC, MOS 0689) [M09BNJ1]**

The Cybersecurity Technician Course provides training on ensuring the availability, integrity, authentication, confidentiality, and non-repudiation of Marine Corps information and information systems. Cybersecurity Technicians implement, operate, and monitor security solutions within Marine Corps Tactical and Garrison Networks. Additionally, Cybersecurity Technicians recommend to, and advise commanders on the implementation of established Department of Defense (DoD) and Marine Corps security related policies, standards and procedures. Duties include assisting in the development and execution of security policies, plans, and procedures; design and implementation of data network security measures; network intrusion detections and forensics; information system security incident handling; and certification of Marine Corps systems and networks. The skill progression training for Master Gunnery Sergeant through Staff Sergeant is the Cybersecurity Managers Course (CSMC) and Cybersecurity Chiefs Course (CSCC).

**Defensive Cyberspace Operator Course (DCOC, MOS 0688) [under development]
(This course will replace the Cybersecurity Technician Course, M09BNJ1)**

The Defensive Cyberspace Operator Course qualifies Marines to perform duties as a Defensive Cyberspace Operator (DCO). Defensive Cyberspace Operators (DCOs) are intelligence-informed, threat driven, key-terrain-in-cyber specific, network agnostic defenders of Department Of Defense Internet (DODIN) and other networked assets. DCOs dynamically reestablish, re-secure, reroute, or isolate degraded or compromised local networks in response to attack, exploitation, intrusion, or effects of malware on the DODIN or other assets that DCOs are directed to defend. DCOs respond to unauthorized activity or alerts/threat information within the DODIN, and leverage intelligence to hunt threats and monitor Indicators of Compromise (IOC), and eliminate threats based on direction from Marine Forces Cyber Command/Marine Corps Cyber Operations Group (MARFORCYBER/MCCOG). DCOs increase awareness of risks to cyberspace domain dependencies; proposing courses of action to manage identified risks; executing Courses of Actions (COAs) as approved by MARFORCYBER. DCOs are taught Internal Defense Measures (IDM) to sustain an advanced cyberspace defense posture, by enumerating target networks and identifying key-terrain-in-cyber, incident detection by way of threat hunting, incident response, post incident recovery, emulating threats, and evaluating network security.

**Communication Training Centers (CTC-1 (Camp Pendleton, CA), CTC-2 (Camp Lejeune, NC), CTC-3 (Okinawa, Japan))**

The Communication Training Centers (CTCs) provide many situational and specific training courses. The 0621, 0631 and 0671 (NCO) Supervisor Courses are taught at the CTCs, as well as many other courses associated with cyber, IT and telecommunications in the Marine Corps. For more information, contact the closest CTC or on the internet at <http://www.trngcmd.marines.mil/Units/West/MCCES/Communications-Training-Battalion/Warfighter-Support-Branch/>.