

United States Marine Corps

Road Map

The road to success for

Refrigeration Mechanic

MOS: 1161- 1169



Current as of: 4 May 2005

Questions concerning this roadmap may be directed to Marine Detachment,

Ft Lee @ 804-765-9167/765-9169



"Leadership is the sum of those qualities of intellect, human understanding, and moral character that enables a person to inspire and control a group of people successfully." - John A. Lejeune

More than any time in the past, Marines, officers and enlisted, are expected to intelligently manage their respective careers. Many tools exist to accomplish this, and therein lies the problem. The amount of printed and web-based material available to individual Marines is nearly overwhelming. I have, therefore, directed our Training and Education Centers of Excellence to simplify the problem through the production of MOS Roadmaps.

MOS Roadmaps are intended to aid you in making intelligent decisions regarding your career path, regardless of whether that career spans four years or thirty years. The Marine Corps depends on the professionalism of all of its members, private through general officer, and it is critical that you understand the training and education expectations of the Corps and the options available to you through each phase of your Marine Corps service. Likewise, I charge leaders at all levels to utilize this MOS Roadmap to mentor all your Marines in sound training and education decisions.

The MOS structure of the Marine Corps is the very bedrock supporting our organization for combat. It is critical that every Marine be an expert in his/her MOS. Toward that end, the MOS Roadmaps emphasize what every Marine must do to achieve that high level of MOS expertise, and provides numerous recommendations for enhancement training that will add to those skills. Also, since all Marines eventually return to civilian life, this MOS Roadmap will guide you through the professional certificate or apprenticeship program, if such a program is applicable to your MOS.

Marines, more than any other segment of our society, are lifelong learners. I encourage all Marines to voluntarily continue their education and to actively pursue the next level. This MOS Roadmap contains voluntary education recommendations. Make good use of them.

Finally, as an incentive for those willing to pursue training and education in their MOS, above and beyond the norm, I have initiated a proposal to award additional self-education bonus points to composite scores, to those Marines who complete distance learning and college courses related specifically to their MOS. I encourage you – especially at the beginning of your career – to concentrate on learning all you can in your MOS. More information regarding this initiative will be published via ALMAR when it is approved.

Semper Fi.

A separate, signed, copy of this page can be downloaded from the [TECOM MOS Roadmap website](#).

T. S. JONES
Major General, U. S. Marine Corps
Commanding General, Training and Education Command



Private – Lance Corporal

1st – 2nd Year

SKILL TRAINING

Required Skill Training (ACE Identifier) ACE Recommended Credit

- Resident and non-resident school/course requirements necessary for Marines to obtain the MOS including alternative training information and ACE accreditation information.
- Recruit Training (MC-2204-0088) 8 SH (1) Orienteering, (3) Tactical Operations (2) Military Science, (2) Martial Arts
- Marine Combat Training (MC-2204-0105) 3 SH Military Skills
- Basic Refrigeration Mechanics Course (MC-1730-0006) 2 SH Basic Electricity
3 SH Refrigeration A/C Theory
2 SH Refrigeration A/C Lab
- Complete EPA 608 & 609 certifications for refrigerant recovery and processing
- Complete Tan and Gray Belt qualification in MCMAP 0 SH

Recommended Skill Training (ACE Identifier) ACE Recommended Credit

- Non-mandatory courses/programs that are intended to enhance a Marine's skills
- Enroll in and complete 1000 hours in the Uniformed Services Military Apprenticeship Program USMAP (0666M) 1000 hours
- Complete Military Academic Skills Program (MASP) if required (see base education)

Recommended Billet Assignment

- No action is required by you. Your orders will most probably direct you to a Marine Division, Force Service Support Group or Air Wing where you will serve as a mechanic.
- Lance Corporals may apply for MSG duty (8151), Marine Security Force Guard (8152), or Marine Security Force Close Quarters Battle Team (8154) per MCO P1326.6D

Common Combat Skills Training / T&R Collective Events

- Training should focus Common Combat Skills and collective events established in the Training & Readiness Manual for this particular grade, (see page 9 for more information about specific tasks for each rank) the following are MOS-related:
 - Serve as a member of a maintenance contact team
 - Serve as a member of a platoon conducting rear area security operations (i.e. manning and preparing a defensive position, operating crew-served machine guns, participating as a patrol member, using squad/platoon level communications equipment and night vision devices, providing security for convoy operations etc...)



Private-Lance

PROFESSIONAL MILITARY EDUCATION

- Mandatory and Non-Mandatory Professional Military Education schools/courses will be listed in this section. Mandatory schools/courses are required for Marines to obtain the next rank and the Non-mandatory schools/courses will enhance the Marine's skills in professional military growth.

Professional Reading

- Privates through Lance Corporal are expected to read and discuss with fellow Marines the books listed for each grade on page 11. Recommend each Marine start with the following two books.

Rifleman Dodd, Forester

U.S. Constitution

VOLUNTARY EDUCATION

- Non-mandatory courses that are intended to enhance a Marine's skill in professional growth and MOS skills through military distance education courses and through voluntary education.

<u>Recommended MOS DL Courses</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- MCI (1161) Funds of Refrigeration	(MC-1730-0005)	0 SH
- MCI (1143) Interior Wiring	(MC-1601-0033)	3 SH Engineering
- MCI (1141A) Marine Electrician	(MC-1714-0020)	0 SH

<u>Recommended General DL Courses</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
(A complete list of additional General DL courses is on page 12)		
- MCI (3420E) Personal Financial Mgmt	(MC-1401-0009)	1 SH Financial Mgmt
- MCI (0210B) Terrorism for Marines	(MC-1606-0010)	1 SH Intro to Terrorism
- Enroll in MCI (0033) Fund of M.C. Ldrship	(MC-1406-0023)	1 SH Supervisory Mgmt

Recommended College Courses and Degrees

- Marines interested in pursuing an associates or bachelors degree should focus on completing the basic general educational requirements for all degrees such as: English Composition, College Algebra, Speech, History I & II, Political Science, Computer Science, and a Humanities Elective. We recommend taking Algebra as soon as possible since the skills gained in high school tend to diminish rapidly for this type of study. The back cover of this roadmap identifies the specific requirements to obtain an associates degree during your first enlistment and the requirements to obtain a bachelor's degree at some point during your career. For more information on voluntary education, see your base education office and the information contained on pages 13 and 14.

<u>Recommended Non-MOS College-level Courses</u>	<u>Recommended Credit</u>
- College Algebra	3 SH Math
- Computer Science	3 SH Comp Science
- Political Science	3 SH Social Science
- US History I	3 SH History

Recommended Degrees

- Associate of Applied Science (Refrigeration/Electronics Technology)
- Associate of Applied Science (Liberal Arts/General Studies)
- Bachelor of Applied Science (Liberal Arts/Logistics Focus)



Corporal



3rd-4th Year

SKILL TRAINING

Recommended Skill Training (ACE Identifier) ACE Recommended Credit

- Complete Green Belt Qualification in MCMAP 0 SH
- Complete additional 2000 hours in USMAP (3000 hours total)

Recommended Billet Assignment

- Mechanic with Marine Division, Wing, Force Service Support Group, or I&I unit.
- Fill collateral duty billets within a maintenance facility: Publication NCO, Safety NCO
- Corporals may apply for Marine Security Guard (8151), Marine Corps Security Force Guard (8152), Marine Corps Security Force Close Quarters Battle Team (8154), Marine Corps Security Force Cadre Trainer (8153), Marine Corps Combat Training Instructor (8513), or Recruiting Duty (8411) per MCO P1326.6D

Common Combat Skills Training / T&R Collective Events

- Training should focus on the collective events established in the Training & Readiness Manual for this particular grade, (see page 9 for more information about specific tasks for each rank) the following are MOS-related:
- Lead a maintenance contact team
- Conduct training on maintenance management functions

PROFESSIONAL MILITARY EDUCATION

Required Professional Military Education (ACE Identifier) ACE Recommended Credit

- MCI (0033) Fundamentals of M.C. Ldrship (MC-1406-0023) 1 SH Supervisory Mgmt

Recommended Professional Military Education (ACE identifier) ACE Recommended Credit

- Complete Resident Corporal's Course (MC-1405-0051) 4 SH (3) Management (1) Mil Stud
- Enroll in MCI (8010) Sgt's DEP (MC-2204-0127) 8 SH (5) Mil Science (1) Mgmt (1) Lang

VOLUNTARY EDUCATION

Recommended MOS DL Courses (ACE identifier) ACE Recommended Credit

- MCI (0410C) MIMMS (MC-1717-0011) 0 SH
- MCI (0416) MC Pubs & Dir Syst (MC-1403-0020) 0 SH

Recommended General DL Courses (ACE identifier) ACE Recommended Credit

- MCI (3422A) Basic Pay and Allowances (MC-1401-0016) 1 SH Finance
- MCI (001A) Principles Instruction f/NCO's (MC-1406-0028) 3 SH Instructional Methods
- MCI (0201) Intelligence Brief: SW Asia (MC-1511-0001) 2 SH International Studies

Recommended non-MOS College-level Courses Recommended Credit

- English Composition I and II 6 SH Humanities
- State and Local Government 3 SH Political Science
- U.S. History II 3 SH History
- Speech 3 SH Humanities
- Foreign Language 3 SH Humanities



Sergeant



5th-7th Year

SKILL TRAINING

<u>Recommended Skill Training</u>	<u>(ACE Identifier)</u>	<u>ACE Recommended Credit</u>
- Complete Green Belt Instructor Course	(MC-1406-0048)	3 SH Martial Arts Instruction
- Complete Brown Belt Qualification in MCMAP		0 SH
- Complete an additional 3000 hours in USMAP		(6000 hours total)
(Contact Base Education Office to finalize apprenticeship documentation)		

Recommended Billet Assignment

- Mechanic with Marine Division, Wing, Force Service Support Group, or I&I unit.
- Fill collateral duty billets within a maintenance facility: (Training, MIMMS, etc...)
- Sergeants may apply for Marine Security Guard (8151), Marine Corps Security Force Guard (8152), Marine Corps Security Force Close Quarters Battle Team (8154), Marine Corps Security Force Cadre Trainer (8153), Marine Corps Combat Training Instructor (8513), Drill Instructor (8511), or Recruiting Duty (8411) per MCO P1326.6D (check the ACE guide for recommended college credits for these specific special duty billets)

Common Combat Skills Training / T&R Collective Events

- Training should focus on the collective events established in the Training & Readiness Manual for this particular grade, (see page 9 for more information about specific tasks for each rank) the following are MOS-related:
- Supervise a maintenance contact team
- Conduct training on Refrigeration troubleshooting and repair

PROFESSIONAL MILITARY EDUCATION

<u>Required Professional Military Education</u>	<u>(ACE Identifier)</u>	<u>ACE Recommended Credit</u>
- Complete MCI (8010) Sgt's DEP		(MC-2204-0127) 8 SH (5) Mil Science (1) Mgmt
<u>Recommended Professional Military Education</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- Enroll in MCI (8100) SNCO Career DEP	(MC-2204-0139)	4 SH (3) Mil Science (1) Ldrshp
- Attend the Sergeant's Course (Resident)		(MC-2204-0103) 6 SH (2) Ldrshp (4) Mil Science

VOLUNTARY EDUCATION

<u>Recommended MOS DL Courses</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- MCI (1344C) Construction Print Reading	(MC-1601-0041)	3 SH Architecture Blueprinting
- MCI (0414A) Grnd Maint Mgmt	(MC-1717-0010)	1 SH Management
<u>Recommended General DL Courses</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- MCI (0324G) Operations/Guerrilla Units		(MC-2204-0133) 3 SH Military Science
- MCI (0335C) Infantry Patrolling	(MC-2204-0136)	1 SH Physical Education
- MCI (8017) Infantry Weapons	(MC-2004-0132)	0 SH (Pre-req f/Sgt's Course)
- MCI (0380) Infantry Squad Leader	(MC-2204-0137)	0 SH
<u>Recommended non-MOS College-level Courses</u>		<u>Recommended Credit</u>
- Psychology		3 SH Psychology
- Educational Psychology		3 SH Psychology
- UL History Elective		3 UL SH History

- Organizational Behavior
 Logistics Elective

3 UL SH Psychology
 3 UL SH Logistics



Staff Sergeant

8th-13th Year

SKILL TRAINING

<u>Recommended Skill Training</u>	<u>(ACE Identifier)</u>	<u>ACE Recommended Credit</u>
- Complete Black Belt Qualification in MCMAP		0 SH

Recommended Billet Assignment

- Maintenance Chief with Marine Division, Wing, Force Service Support Group, or I&I unit.
- Staff Sergeants may apply for Marine Security Guard (8151), Marine Corps Security Force Guard (8152), Marine Corps Security Force Close Quarters Battle Team (8154), Marine Corps Security Force Cadre Trainer (8153), Marine Corps Combat Training Instructor (8513), Drill Instructor (8511), or Recruiting Duty (8411) per MCO P1326.6D (check the ACE guide for recommended college credits for these specific special duty bullets)

Common Combat Skills Training / T&R Collective Events

- Training should focus on the collective events established in the Training & Readiness Manual for this particular grade, (see page 10 for more information about specific tasks for each rank) the following are MOS-related:
- Deploy a maintenance contact team
- Serve as a local security chief

PROFESSIONAL MILITARY EDUCATION

<u>Required Professional Military Education</u>	<u>(ACE Identifier)</u>	<u>ACE Recommended Credit</u>
- Complete MCI (8100) SNCO Career DEP	(MC-2204-0139)	4 SH (3) Mil Science (1) Ldrshp

<u>Recommended Professional Military Education</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- Attend SNCO resident Career Course	(MC-2204-0074)	9 SH (6) Mil Stud (2) Ldrshp (1) PT
- MCI (8200) SNCO Advanced DEP	(MC-2204-0142)	3 SH Mil Science

VOLUNTARY EDUCATION

<u>Recommended MOS DL Courses</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- MCI (045C) Logs/Embark Specialist	(MC-1408-0030)	1 SH Records Management

<u>Recommended General DL Courses</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- MCI (3412) Field Budget Formulation	(MC-1401-0011)	1 SH Bookkeeping

<u>Recommended non-MOS College-level Courses</u>	<u>Recommended Credit</u>
- Logistics Engineering	3 UL SH Logistics
- Principles of Management	3 UL SH Management
- Logistics Management	3 UL SH Logistics
- UL Social Science Electives	3 UL SH Social Science
- Ethics	3 UL SH Humanities
- UL Management Electives	3 UL SH Management
- UL Humanities/Phy Science Electives	3 UL SH Humanities/Phy Sci



Gunnery Sergeant

13th-18th Year

SKILL TRAINING

<u>Required Skill Training</u>	<u>(ACE Identifier)</u>	<u>ACE Recommended Credit</u>
- Attend Utilities Chief's Course (within one year of promotion)	(MC-1710-0035)	3 SH Mechanical Engineering

Recommended Billet Assignment

- Maintenance Chief with Marine Division, Wing, Force Service Support Group, or I&I unit.
- Gunnery Sergeants may apply for Marine Security Guard (8151), Marine Corps Security Force Guard (8152), Marine Corps Security Force Cadre Trainer (8153), Marine Corps Combat Training Instructor (8513), Drill Instructor (8511), or Recruiting Duty (8411) per MCO P1326.6D
(check the ACE guide for recommended college credits for these specific special duty bullets)

Common Combat Skills Training / T&R Collective Events

- Training should focus on the collective events established in the Training & Readiness Manual for this particular grade (see page 10 for more information about specific tasks for each rank)

PROFESSIONAL MILITARY EDUCATION

<u>Required Professional Military Education</u>	<u>(ACE Identifier)</u>	<u>ACE Recommended Credit</u>
- MCI (8200) SNCO Advanced DEP	(MC-2204-0142)	3 SH Mil Science

<u>Recommended Professional Military Education</u>	<u>(ACE identifier)</u>	<u>ACE Recommended Credit</u>
- Attend SNCO resident Advanced Course	(MC-2204-0076)	6 SH (4) Mil Science (1) Ldrshp (1) Public Speaking
- Complete MCI (7400) Warfighting Skills DEP	(MC-2204-0112)	2 SH Mil Studies

VOLUNTARY EDUCATION

- Recommend applying to Degree or Advanced Degree Completion Program.
- If you have completed a bachelor's degree, recommend pursuing a master's of science in management/leadership focusing on a degree in logistics.



Master Sergeant

19th-22nd Year

SKILL TRAINING

Recommended Skill Training (ACE Identifier) ACE Recommended Credit

- Attend Marine Corps Logistics Education Program (MCLEP)

Recommended Billet Assignment

- Utilities Chief with Force Service Support Group, Wing, I&I unit, or Logistics Depot.
- Special Duty recommendations: Senior Marine Instructor/Chief Instructor at a formal school; Maintenance Analyst at Marine Corps Logistics Chain Analysis Team; Production Chief at MCCDC; or serve as the Occupational Field Monitor.

PROFESSIONAL MILITARY EDUCATION

Recommended Professional Military Education (ACE Identifier) ACE Recommended Credit

- Attend 1stSgt & MSgt Seminar
- MCI (8510) Amph Warfare DEP Phase I (MC-2204-0141) 8 SH (6) Mil Science (2) Mgmt
- MCI (8600) Amph Warfare DEP Phase II (MC-2204-0114) 5 SH (3) Mil Studies (2) Mgmt

VOLUNTARY EDUCATION

Recommended non-MOS College-level courses

- This roadmap has provided the foundation for entry into a graduate level (Master's) Degree Program, this particular program is available on-line with two weekend residency requirements.
- Recommend application to an Advanced Degreed Completion program, however, if not selected, this degree is one of many that you can pursue and it offers the greatest flexibility that we have found. Completing this course would complete the requirements for a Master's of Science in Management/Leadership and is offered by Thomas Edison State College which is one of the many SOCMAR schools

- | | |
|--|--------------------|
| * Organizational Theory and Behavior | 6 GL SH Management |
| * Human Resource Management | 3 GL SH Management |
| * Economic Issues in Organizations | 3 GL SH Management |
| * Organizational Research | 3 GL SH Management |
| * Organizational Management and Leadership I | 3 GL SH Management |
| * Organizational Management and Leadership II | 3 GL SH Management |
| * Finance and Accounting for Managers | 3 GL SH Management |
| * Professional Leadership Development I (residency) | 1 GL SH Management |
| * Professional Leadership Development II (residency) | 1 GL SH Management |



Master Gunnery Sergeant



SKILL TRAINING

Recommended Billet Assignment

- Utilities Chief with MEF, FSSG, Division, FMF Pacific or Atlantic
- Special Duty recommendations: Joint Tour

PROFESSIONAL MILITARY EDUCATION

Recommended Professional Military Education (ACE Identifier) ACE Recommended Credit

- | | | |
|--|----------------|--|
| - Attend Russell Leadership Conference | | |
| - MCI (8800) Command and Staff DEP | (MC-1408-0025) | 18 SH (3) UL Military Studies
(3) GL National Security
(3) UL International Relations
(3) UL Organization Management
(3) UL Theory of War
(3) GL Military History |

VOLUNTARY EDUCATION

- Continue to apply for Advanced Degree Completion and/or continue to pursue master degree.
- If you have completed a bachelor's degree, recommend pursuing a master's of science in management/leadership focusing on a degree in logistics. automotive industry. (LAV, Tank, AAV, engineer, and MT mechanics usually fall in this category and USMAP can help to document this experience).

COMMON COMBAT SKILL

Marine Corps Common Combat Skills are those selected by the Enlisted Professional Military Education and Training board that outline what each Marine is expected to know for each rank regardless of MOS. The skills listed below are expected to be re-enforced throughout the roadmap through PME, MCI, and Unit Training.

Private, PFC, Lance Corporal (Perform as a team member)

Function as a member of a unit

- Patrolling,
 - Reactionary Drills
 - IED Identification
- Offensive Measures
 - Identify Targets
 - Fire and Movement
- Defensive Measures
 - Defend a position
 - Roadblocks, Perimeter access
- Understand the mission (5 paragraph order)
 - SMEAC
- Understand mission type orders
 - SMEAC, BAMCIS

Corporal (Lead a Team in tactical measures)

- Land Navigation
- Lead a Team in Patrol
 - Reactionary Drills
 - IED Identification
- Lead a Team in Offensive Measures
 - Identifying Targets
 - Fire and Movement
- Lead a Team in Defensive Measures
 - Defending a position
 - Roadblocks, perimeter access
- Weapons Handling
- Tactical Communication
 - Reporting of information

Sergeant (Lead a squad in tactical measures)

- Patrolling
 - Security
- Offensive Measures
 - Fire and Maneuver
 - Control Measures
- Defensive Measures
 - Defensive Positions
- Execute and Supervise
 - Weapons handling/employment
 - Tactical Communication

COMMON COMBAT SKILL

Marine Corps Common Combat Skills are those selected by the Enlisted Professional Military Education and Training board that outline what each Marine is expected to know for each rank regardless of MOS. The skills listed below are expected to be re-enforced throughout the roadmap through PME, MCI, and Unit Training.

Staff Sergeant

(Plan, execute, and evaluate individual and collective training for a unit)

Identify Deficiencies at Platoon Level

- Patrolling
- Offensive Measures
- Defensive Measures

Rear Area Security Operations Platoon/Company

- Defensive Measures
 - Defensive Positions
 - Deployment of Crew Served Weapons
 - Communications
 - Fields of Fire/Sector of Fire

Convoy Operations

- Defensive Measures
- Planning
- Execution

Understand and Apply decision-making

- OODA Loop
- ORA
- Tactical Decisions
 - Patrolling
 - Offense
 - Defense

Gunnery Sergeant

(Function in the Command and Control Center)

Understand MAGTF and Joint Operations

Organizational structure of the MAGTF

- MAGTF Operations
- Integration of capabilities

Watch chief in a Command and Control Center

- Mission
- Functions with in the Command Center
- Situational Awareness
- Information Management
- Responsibilities of the watch chief

Rear Area Security Operations Company/Battalion

- Defensive Measures
 - Defensive Positions
 - Communications

Convoy Operations

- Operational Control
 - Planning/ Log Train Procedures
 - Defensive Measures
 - Communication
 - Security Measures

RECOMMENDED PROFESSIONAL READING

(Per ALMAR 007/05 dated 9 Feb 2005)

Private, PFC, and Lance Corporal

A Message To Garcia, Hubbard
Blackhawk Down, Bowden
Rifleman Dodd, Forester
The Defense Of Duffer's Drift, Swinton
The Killer Angels, Shaara
The Soldier's Load, Marshall
U.S. Constitution

Corporal and Sergeant

Battle Leadership, Von Schell
Fields Of Fire, Webb
Flags Of Our Fathers, Bradley
Gates Of Fire, Pressfield
The Bridge At Dong Ha, Miller
The Last Full Measure, Shaara
The Red Badge Of Courage, Crane
The United States Marines: A History, Simmons
Tip Of The Spear, Michaels
With The Old Breed At Pelelieu And Okinawa, Sledge

Staff Sergeant

Attacks!, Rommel
Pegasus Bridge, Ambrose
Phase Line Green - The Battle For Hue 1968, Warr
The Arab Mind, Patai
The Art Of War, Sun Tzu (Griffin)
The Forgotten Soldier, Sajer
The Village, West
This Kind Of War, Fehrenbach
We Were Soldiers Once, Moore And Galloway

Gunnery Sergeant

Breakout, Russ
Citizen Soldiers, Ambrose
Command In War, Van Creveld
My American Journey, Powell
Navajo Weapon, McClain
Savage Wars Of Peace, Boot
Semper Fidelis: The History Of The U.S. Marine Corps, Millet
Marine Corps, Millet
Unaccustomed To Fear, Willcock

Master Sergeant/Master Gunnery Sergeant

Band Of Brothers, Ambrose
Bayonet Forward!, Chamberlain
Defeat Into Victory, Slim
Seven Pillars Of Wisdom, Lawrence
Strong Men Armed, Leckie
The Face Of Battle, Keegan
The Mask Of Command, Keegan
War In The Shadows, Asprey
First To Fight, Krulak
Fortune Favors The Brave, Myers
No Bended Knee, Twining
Reminiscences Of A Marine, Lejeune

RECOMMENDED GENERAL MILITARY DISTANCE LEARNING COURSES

<u>MCI's Recommended for all Ranks</u>	<u>(ACE Identifier)</u>	<u>ACE Recommended Credit</u>
0055- Hazardous Material/Hazardous Waste		0 SH
0112C- Counseling for Marines	(MC-1406-0032)	2 SH Counseling Prnc/Edu
0118K- Spelling	(MC-0501-0001)	0 SH
0119H- Punctuation		0 SH
0131H- Correspondence Procedures		0 SH
0210B/14A/15A- Terrorism Awareness	(MC-1606-0010)	1 SH Intro to Terrorism
028B- Introduction to Combat Intelligence	(MC-1606-0015)	1 SH Intro to Intelligence
0324G- Operations Against Guerrilla Units	(MC-2204-0133)	3 SH Military Science
0354B- Desert Operations		0 SH
0381 Land Navigation	(MC-1601-0052)	3 SH (1) Map Reading (2) PE
0380 Infantry Squad Leader	(MC-2204-0137)	0 SH
0416A- The M.C. Publication and Directives System		0 SH
047D- Introduction to Amphibious Embarkation		0 SH
0861- Basic Forward Observation Procedures		0 SH
1334H- Math for Marines	(MC-1107-0001)	3 SH Fund of Mathematics
2525A- Communications Security		0 SH
3316E- Basic Nutrition	(MC-1729-0041)	1 SH Nutrition
342025A/26A- Personal Financial Mgmt	(MC-1401-0009)	1 SH Financial Management

MCI's Recommended for any MOS

0370B- The Marine Rifleman: Combat Skills	(MC-2204-0152)	3 SH Military Science
2538A- Single Channel Ground Airborne		0 SH
2526B- Introduction to Electronic Warfare Radio System (AN/PRC-119)		0 SH

ENLISTED TO OFFICER PROGRAMS

The Marine Corps provides many prospective ways for Enlisted Marines to become an Officer in the Marine Corps. For more information on these programs you can access them through the web @ <https://web.merc.usmc.mil/g3/officer/merc>. Below is a list of the programs that the Marine Corps offers and the references for each of the programs.

PROGRAM REFERENCE

Enlisted Commissioning Program (ECP)	MCO 1040.43A
Reserve Enlisted Commissioning Program (RECP)	MCO 1040R.10L
Meritorious Enlisted Commissioning Program (MCP)	MCO 1040.43A
Marine Enlisted Commissioning Education Program (MECP)	MCO 1560.15L
Broadened Opportunity for Officer Selection and Training (BOOST)	MCO 1560.24D
Naval Reserve Officer Training Corps Marine Option (NROTC)	MCO 1560.28B
Warrant Officer (Regular, Reserve, Gunner, and Recruiter) (WO)	MCO 1040.42A
Naval Academy Preparatory School (NAPS)	MCO 1530.11G

VOLUNTARY EDUCATION

“If you are not moving forward in your training, you are automatically, by default, moving back”

1. **National Certification Testing.** In addition to MCIs and formal MOS schools, certain MOSs prepare you to pass national certification testing: National Institute of Metallurgical Society (NIMS) for machinists, Students Excelling through National Standards of Excellence (SENSE) for welders, EPA certifications for Refer Mechs, Automotive Service Excellence (ASE) for mechanics and technicians, etc...

2. **Uniformed Services Military Apprenticeship Program (USMAP)** is available to most active duty MOSs and is certified by the U.S. Department of Labor. This is the largest apprenticeship program operating in the U.S. and is recognized by all 50 states. Completion of one of these programs would qualify you as a journeyman which could mean a significantly higher starting salary in the civilian work force. Most programs require 5-8 years to complete but are transferable if you decide to leave the service prior to completion.

3. **Vocational Certificates** are available from most community colleges and most of your military training can be counted toward their degree programs but they will still require residency credits and approximately 40-75 credit hours. These certificates can be as valuable as the apprenticeship program in the civilian work force.

4. **Associate Degrees** generally require approximately 60 semester hours of credit. Most colleges will allow you to use about 30 semester hours in transfer from your military training (formal schools, military experience, MCIs etc.). However, they will also require you to take a minimum of 30 semester hours in the “Arts and Sciences”. During your 1st enlistment, recommend you take the following college courses to aid you in achieving you associate’s degree: English Composition, College Algebra (recommend you take this one within the 1st year, as this is a diminishing skill and the likelihood of passing it four years later is slim), Speech, US History I & II, Political Science, Psychology, Macro and Micro Economics, Introduction to Business and some type of Fine Arts Appreciation to cover your Humanities requirements.

5. **Bachelor’s Degrees** require approximately 120 semester hour credits depending on the college you are applying with. Done properly, most Marines should be able to complete this type of degree (part-time) in less than 8 years. If you completed the requirements for the associate’s degree, you should be able to take an additional 10 upper level courses (i.e. 300-400 series), coupled with additional military training and MCIs and complete the requirements for a 4 year bachelor’s degree in general studies.

6. **Graduate Degrees** require an additional 36-50 graduate- level credits upon completion of a bachelor’s degree. For this MOS, pursuing a Master’s of Science in Management or Leadership would probably be the most practical.

7. College Credit info:

a. The **American Council on Education (ACE)** has reviewed every course listed in the roadmap and determined what type of collegiate level credit is recommended. The ACE identifier, listed in red, is a source to validate the information and to check for changes as they occur. Updates can be found at <http://www.militaryguides.acenet.edu>.

b. **Testing** can replace the requirement to attend most of the college courses listed in the roadmap. Base education centers offer CLEP, DANTES and Excelsior exams for active duty military at no cost. They also have a comprehensive list of “credit-by-exam” tests that they offer. Additionally, many of the tests have study guides available and are available at the education center or through the base library system.

c. **ASE exams** are also available at the education centers. DANTES will pay for active duty military to take 3 exams per semi-annual year (every 6 months). The tests are offered in the spring and fall of every year and do require, at present, a \$31.00 non-refundable registration fee. ASE exams require documentation of two years experience working in the automotive industry. (LAV, Tank, AAV, engineer, and MT mechanics usually fall in this category and USMAP can help to document this experience).

d. **Tuition assistance (T/A)** currently pays for 100% of college course tuition. Students must pay for books, fees and study guides.

e. You must sign a **SOCMAR** agreement upon completion of 12 semester hours if you wish to continue to use T/A. Info about SOCMAR can be found at the following web address:

<http://www.soc.aascu.org/socmar/HandbookM.html>

This handbook will also provide detailed information about individual college degree requirements. Additional information and sample degree roadmaps can be found at the Marine Corps Career College Program (MCCCP) at <http://www.soc.aascu.org/socmar/MCCCP>

f. **Sailor Marine American Council on Education Registry Transcript (SMART)** are official military transcripts which are used by colleges to validate your actual credited training. Every Marine has a transcript already and access to it is free, more information is available online at: www.cnet.navy.mil

g. **Credit Tally.** Listed on the next page is a tool to help you identify how the courses we recommended fit into specific college degree categories. This helps to ensure that you are not taking lots of courses that won't count toward your degree requirements.

Credit Tally for:
Applied Science “Technical Studies” Associates Degree

Arts and Sciences Electives 30 SH Minimum			Applied Professional	
Humanities	Social Sciences/History	Natural Science/Math	30 SH Maximum a.k.a. (Free Electives)	
(3) * English Comp I (3) * Speech (1) Language (3) * Tech Writing (3) * Arts/Music/Phil	(3) * US History I (3) * US History II (2) International studies (3) * Economics I	(2) Basic Electricity (3) * College Algebra (4) * Science Elective	(3) Refrigeration A/C Theory (2) Refrigeration A/C Lab (1) Orienteering (2) Military Science (3) Land Navigation (2) Martial Arts (3) Military Skills (1) Finance Mgmt (1) Terrorism (3) Engineering	(1) Management (1) Nutrition (3) Management (1) Military Studies (1) Finance (3) Instructional Methodology (5) Military Science (2) Management (3) Martial Arts Inst
(13) Total	(11) Total	(9) Total	(40) Total	

****This completes the requirements for an Associate in Applied Science “Technical Studies” as prescribed by a SOCMAR School****

- * **Courses listed in BLACK denote MCIs and military formal schools**
- * **Courses listed in BLUE denote lower-level college courses (freshman/sophomore)**
- * **Courses listed in GREEN denote upper-level college courses (junior/senior)**

Credit Tally for:
Bachelor of Science/Liberal Arts Degree

Arts and Sciences Electives 60 SH Minimum (21 Upper Level)			Applied Professional		
Humanities	Social Sciences/History	Natural Science/Math	60 SH Maximum (9 Upper Level) a.k.a. (Free Electives)		
(3) * English Comp (3) * Speech (1) Language (3) * Tech Writing (3) * Arts/Music (3) * UL English (3) * UL Language (3) * UL Humans	(3) * US History I (3) * US History II (2) International studies (3) * Economics I (3) * Psychology (3) * Psychology (3) * UL Psychology (3) * UL History	(2) Basic Electricity (3) * College Algebra (4) * Sci Elective (3) * Pre-Calculus (3) * Statistics (3) * UL Finance (3) * UL Elective	(3) Refer A/C Theory (2) Refer A/C Lab (1) Orienteering (2) Military Science (3) Land Navigation (2) Martial Arts (3) Military Skills (1) Finance Mgmt (1) Terrorism (3) Engineering (1) Management (1) Nutrition	(3) Management (1) Military Studies (1) Finance (3) Instruction Methods (5) Military Science (2) Management (3) Martial Arts Inst (3) Arch Blueprinting (1) Management (3) * Logistics (2) Leadership (3) Military History	(3) Military Science (1) Leadership (3) Military Science (3) Engineering (1) Records Mgmt (1) Finance (6) Military Studies (2) Leadership (3) Military Science (3) * UL Logistics (3) * UL Logistics (3) * UL Logistics
(22) Total	(23) Total	(21) Total	(84) Total		

**** This completes the requirement for a Bachelor of Science in Liberal Arts as prescribed by a SOCMAR School****

NOTE: The college courses, both lower and upper level, may apply to different degree requirements depending on which college is attended. College courses and degree fields shown above are through Excelsior College.