

OVERVIEW:

The "Road Map to Success" is a training initiative to give every Marine a guideline from which to plan their career. Each MOS Road Map details the MOS Training, PME, Voluntary Education, and Billets recommended for each rank. These Road Maps "should not" be utilized by supervisors for performance evaluation of a Marine such as Proficiency/Conduct Marks or Fitness Reports, but as an option to enhance their future both in the military and beyond.

Upon graduation from MOS school, Marine receives a brief on:

Future MOS courses, MCI requirements, PME requirements, and the availability of college courses.

Gaining Command:

Realigns, supports, and enforces the road map.

1st Year

MOS: 6176, MV-22 Crew Chief

- Complete Recruit Training
- Complete Marine Combat Training (MCT)
- Complete Naval Aircrewman Candidate School (N2373C2)
- Complete Survival, Evasion, Resistance and Escape School (N28M5Q1)
- Complete MV-22 Power Plants and Related Systems Organizational Maintenance (M0568E0)
- Complete MV-22 Crew Chief Flight Training (M0568H0)
- Begin 200 Level Training and Readiness Coded Events
- Obtain MV-22 Plane Captain Qualification
- Complete Naval Aviation Maintenance Program (NAMP) Indoctrination
- Complete Naval Aviation Occupational Safety and Health (NAVOSH) Indoctrination
- Maintenance On-the-Job Training (MOJT) as required per MCO P4790.20

PME:

- Complete MCI (3420E) Personal Finance

Voluntary Education:

- Apprenticeship program for FAA Airframes and Power Plants (A&P) License is not available until individual has 30 months experience on both systems and attains the rank of Corporal (https://www.cnet.navy.mil/usmap/usmc_trades.html). This certification can be used in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wvc/03navy_prog.html).
- The body of knowledge required to attain the FAA Airframes and Power Plants License is offered through the A.S. Aircraft Maintenance Degree at Embry-Riddle Aeronautical University Navy Distance Learning Program. This may be utilized to attain the practical knowledge in preparation for the apprenticeship program.

Duty:

- MV-22 Crew Chief/MV-22 Plane Captain

Special Duty:

- Recruiter's Assistance recommended prior to reporting to the FMF

2nd Year

MOS: 6176, MV-22 Crew Chief

- Progress toward Individual Training Standards System (ITSS) Marine Corps Maintenance Training Management and Evaluation Program (MATMEP) Level III Qualification for Both Type/Model/Series aircraft as per MCO P4790.20
- Complete 200 Level Training and Readiness Coded Events
- Begin 300 Level Training and Readiness Coded Events
- Obtain Night Systems High Light Level Qualification
- Obtain Terrain Flight/Confined Area Landing Qualification
- Obtain Day Carrier Qualification
- Attend Fleet Aviation Specialized Operation FASO (D-555-0038) Naval Aviation Visual Identification Display System/Subsystem Capability Impact Reporting Course
- Attend FASO (D555-0023) Dispersed Technical Publication Librarian Course
- Begin Quality Assurance Collateral Duty Inspector (CDI) Syllabus
- Begin Cross Training into 6116 Power Plants Mechanics Duties
- Review MAWTS-1 MV-22 Crew Member Academic Support Package

PME:

- Complete MCI (033N) Fundamentals of Marine Corps Leadership
- Complete MCI (602AP) Theory and Construction of Gas Turbine Engines

Voluntary Education:

- Apprenticeship program for FAA Airframes and Power Plants (A&P) License is not available until individual has 30 months experience on both systems and attains the rank of Corporal (https://www.cnet.navy.mil/usmap/usmc_trades.html). This certification can be used in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).
- The body of knowledge required to attain the FAA Airframes and Power Plants License is offered through the A.S. Aircraft Maintenance Degree at Embry-Riddle Aeronautical University Navy Distance Learning Program. This may be utilized to attain the practical knowledge in preparation for the apprenticeship program.

Duty:

- MV-22 Crew Chief/ MV-22 Plane Captain
- W/C Assistant Collateral Duty Assignment (I.E. Tool Control NCO, Safety NCO, DTPL...)

Special Duty:

- None recommended until the rank of Sergeant



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3rd Year

MOS: 6176, MV-22 Crew Chief

- Obtain ITSS MATMEP Level III Qualification for Both Type/Model/Series aircraft as per MCO P4790.20
- Complete 300 Level Training and Readiness Coded Events
- Begin 400 Level Training and Readiness Coded Events
- Obtain Night Systems Low Light Level Qualification
- Obtain Night Carrier Qualification
- Obtain Quality Assurance Collateral Duty Inspector Certification

PME:

- Complete MCI (6001AP) Aviation Maintenance Non-Commissioned Officer
- Read 2 books from the Commandant's Reading List

Voluntary Education:

- Apprenticeship program for FAA Airframes and Power Plants (A&P) License is not available until individual has 30 months experience on both systems and attains the rank of Corporal (https://www.cnet.navy.mil/usmap/usmc_trades.html). This certification can be used in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).
- The body of knowledge required to attain the FAA Airframes and Power Plants License is offered through the A.S. Aircraft Maintenance Degree at Embry-Riddle Aeronautical University Navy Distance Learning Program. This may be utilized to attain the practical knowledge in preparation for the apprenticeship program.

Duty:

- MV-22 Crew Chief/MV-22 Plane Captain/Power Plants Mechanic
- W/C Primary/Assistant Collateral Duty Assignment (I.E. Tool Control NCO, Safety NCO, DTPL...)

Special Duty:

- None recommended until the rank of Sergeant



4th Year

MOS: 6176, MV-22 Crew Chief

- Progress toward ITSS MATMEP Level IV Qualification for Both Type/Model/Series aircraft as per MCO P4790.20
- Begin Collateral Duty Quality Assurance Representative CDQAR training syllabus
- Attend Aviation Technical Training AVTECHTRA (C-600-3000) Aviation Gas Free Engineering Course (CDQAR Certification required)
- Complete 400 Level Training and Readiness Coded Events
- Obtain Rotary Wing/Fixed Wing Defensive Air Combat Maneuvering (RW/FWDACM) Qualification
- Begin Terrain Flight/Confined Area Landing/Aerial Gunnery/Defensive Air Combat Maneuvering and Night Systems Instructor Training (600 Level)
- In preparation for future billets, the following courses are recommended:
 - Attend FASO (D-555-0045/0036) Naval Aviation O-Level Work Center Supervisor Course
 - Attend FASO (D-555-0040) Naval Aviation O-Level Maintenance Control Course
 - Attend FASO (D-555-0006/0046) Naval Aviation Quality Assurance Course

PME:

- Attend Corporal's Course (Resident)
- Complete MCI (8010) Sergeants Distance Education Program
- Complete MCI (605AP) Aviation Maintenance Work Center Supervisor
- Continue the Commandant's Reading List Program

Voluntary Education:

- Apprenticeship program for FAA Airframes and Power Plants (A&P) License is available once individual has 30 months experience on both systems and attains the rank of Corporal (https://www.cnet.navy.mil/usmap/usmc_trades.html). This certification can be used in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).
- The body of knowledge required to attain the FAA Airframes and Power Plants License is offered through the A.S. Aircraft Maintenance Degree at Embry-Riddle Aeronautical University Navy Distance Learning Program. This may be utilized to attain the practical knowledge in preparation for the apprenticeship program

Duty:

- MV-22 Crew Chief/MV-22/Plane Captain/Power Plants Mechanic
- W/C Crew/Shift Leader
- W/C Primary Collateral Duty Assignment (I.E. Tool Control NCO, Safety NCO, DTPL...)
- W/C Quality Assurance Collateral Duty Inspector
- DOSS/NATOPS ANCOIC

Special Duty:

- None recommended until the rank of Sergeant



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Sergeant

MOS: 6176, MV-22 Crew Chief

- Obtain ITSS MATMEP Level IV Qualification for Both Type/Model/Series aircraft as per MCO P4790.20
- Obtain Collateral Duty Quality Assurance Representative CDQAR Certification
- Begin/Obtain 500 Level Training and Readiness Coded Events as applicable
- Obtain Begin Terrain Flight/Confined Area Landing/Aerial Gunnery/Defensive Air Combat Maneuvering and Night Systems Instructor Training (600 Level)
- Attend Weapons and Tactics Crew Chief Instructor Course (M14P2A1)
- If not previously; attend Aviation Technical Training AVTECHTRA (C-600-3000) Aviation Gas Free Engineering Course (CDQAR Certification required)
- Attend any/all of the following courses (as required by billet):
 - Attend FASO (D-555-0045/0036) Naval Aviation O-Level Work Center Supervisor Course
 - Attend FASO (D-555-0040) Naval Aviation O-Level Maintenance Control Course
 - Attend FASO (D-555-0006/0046) Naval Aviation Quality Assurance Course
- Submit Warrant Officer package if desired (8 years)

PME:

- Attend Sergeant's Course (Resident)
- Complete MCI (7100) SNCO Career Distance Education Program
- Continue the Commandant's Reading List Program

Voluntary Education:

- Complete the apprenticeship program for FAA Airframes and Power Plants (A&P) License (https://www.cnet.navy.mil/usmap/usmc_trades.html). This certification can be used in the future to attain B.S. Aviation Maintenance Management through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html). Obtain FAA Airframes and Power Plants License
- Commence / Complete A.S. Professional Aeronautics Degree

Duty:

- Recommend the following billet assignments:
 - W/C Crew / Shift Leader
 - W/C ANCOIC/NCOIC
 - W/C Quality Assurance Representative
 - Quality Assurance Representative
 - Maintenance Controller
 - Squadron NATOPS Evaluator

Special Duty:

- Recommend one of the following special duty assignments:
 - Drill Instructor
 - Recruiter
 - Marine Security Guard
 - MOS Instructor ("C" School)



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Staff Sergeant

MOS: 6176, MV-22 Crew Chief

- Work Center
 - If not previously; attend FASO (D-555-0045/0036) Naval Aviation O-Level Work Center Supervisor Course
- Maintenance Control
 - If not previously; attend FASO (D-555-0040) Naval Aviation O-Level Maintenance Control Course
 - Obtain Safe for Flight Certification
 - Obtain Project/Priority Certification
 - Obtain Cannibalization Authority
- Quality Assurance
 - If not previously; attend FASO (D-555-0006/0046) Naval Aviation Quality Assurance Course
 - Attend FASO (D-555-0007) Aviation Technical Publication Library Custodian Course
 - Obtain Quality Assurance Representative Qualification
 - Obtain Hydraulic Contamination Analysis Certification
- Attend Naval Aviation Maintenance Training Unit NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM) Course.
- If not previously, Begin/Obtain 500 Level Training and Readiness Coded Events as applicable
- If not previously, attend Weapons and Tactics Crew Chief Instructor Course (M14P2A1)
- Submit Warrant Officer package if desired (8 years)

PME:

- Attend SNCO Career Course (Resident)
- Complete MCI (8200) SNCO Advanced Distance Education Program
- Complete MCI (606AP) Aviation Quality Assurance Supervisor
- Continue the Commandant's Reading List Program

Voluntary Education:

- Commence / Complete A.S. Professional Aeronautics Degree
- Commence Bachelors Degree in any of the following:
 - B.S. Professional Aeronautics
 - B.S. Aviation Maintenance Management (FAA A&P Required)
- Degree Completion Program

Duty:

- Recommend the following billet assignments:
 - W/C SNCOIC
 - W/C Collateral Duty Quality Assurance Representative
 - Quality Assurance Representative
 - Maintenance Controller
 - Weapons and Tactics Crew Chief Instructor at MAWTS-1
 - Squadron/Group NATOPS Evaluator

Special Duty:

- Recommend one of the following special duty assignments:
 - Drill Instructor
 - Recruiter
 - Marine Security Guard
 - MOS Instructor ("C" School)



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Gunnery Sergeant

MOS: 6176, MV-22 Crew Chief

- Maintenance Control
 - Attend FASO (D-555-0003) Naval Aviation Material Control Management Course
 - Attend FASO (D-516-0001) Naval Aviation Weight and Balance Course
 - Attend FASO (D-555-0039) Naval Aviation Logs and Records Course
- Quality Assurance
 - Attend FASO (D-555-0039) Naval Aviation Logs and Records Course
- Attend Naval Aviation Maintenance Training Unit NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM) Course (SEAM II if available).
- Submit Warrant Officer package if desired

PME:

- Attend SNCO Advanced Course (Resident)
- Complete MCI (7400) Warfighting Skills Distance Education Program
- Continue the Commandant's Reading List Program

Voluntary Education:

- Commence / Complete Bachelors Degree in any of the following:
 - B.S. Professional Aeronautics
 - B.S. Aviation Maintenance Management (FAA A&P Required)
 - B.S. Technical Management Occupational Safety and Health Specialty
 - B.S. Technical Management Logistics Specialty
- Degree Completion Program

Duty:

- Recommend the following billet assignments:
 - W/C SNCOIC/Division Chief
 - Quality Assurance Division Chief
 - Maintenance Control SNCOIC/Chief
 - Weapons and Tactics Crew Chief Instructor at MAWTS-1
 - Squadron/Group NATOPS Evaluator

Special Duty:

- Recommend one of the following special duty assignments:
 - "B" Billet (if not previously)
 - MOS Instructor ("C" School)
 - CNAL AMMT / MAW LOGMAT Inspector
 - HQMC



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Master Sergeant

MOS: 6019, Aircraft Maintenance Chief

- Attend FASO (D-555-0034) Naval Aviation Maintenance Officer Course
- Attend Naval Aviation Maintenance Training Unit NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM) Course (SEAM II under development)

PME:

- Attend Maintenance Chief's Symposium
- Attend E-8 Seminar
- Continue the Commandant's Reading List Program

Voluntary Education:

- Commence Masters Degree in any of the following:
 - M.S. Aeronautical Science
 - M.S. Management
 - M.S. Technical Management
 - M.S. Technical Management Occupational Safety

Duty:

- Recommend the following duty assignments:
 - Maintenance Control Chief (Squadron)
 - Maintenance Chief (Squadron)
 - Division Chief (MALS)
 - Production Control Chief (MALS)

Special Duty:

- Recommend one of the following special duty assignments:
 - HQMC
 - SNCOIC MOS "A" or "C" School
 - MAW LOGMAT Inspector



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Master Gunnery Sergeant

MOS: 6019, Aircraft Maintenance Chief

- If not previously; attend FASO (D-555-0034) Naval Aviation Maintenance Officer Course
- Attend Naval Aviation Maintenance Training Unit NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM) Course (SEAM II under development)

PME:

- Attend Maintenance Chief's Symposium
- Attend E-9 Seminar
- Attend Russell Leadership Conference
- Continue the Commandant's Reading List Program

Voluntary Education:

- Commence Masters Degree in any of the following:
 - M.S. Aeronautical Science
 - M.S. Management
 - M.S. Technical Management
 - M.S. Technical Management Occupational Safety

Duty:

- Recommend the following duty assignments:
 - Maintenance Chief (Squadron, MALS, MAG, MAW)
 - SNCOIC MOS "A" or "C" School
 - MAW LOGMAT Chief Inspector

Special Duty:

- HQMC



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Aviation Maintenance Degrees

*The following degrees are available through the
Navy College Program Distance Learning Partnership
with Embry-Riddle Aeronautical University*

A.S. Aircraft Maintenance:

Occupational Specialty: Any MOS

Degree Requirements: 63

Technical Core: (30 Semester Hours)

| | |
|--------------------------------------|---|
| General Aeronautics and Applications | 3 |
| Aircraft Electrical Systems Theory | 3 |
| Airframe Structures and Applications | 4 |
| Airframes Systems and Applications | 3 |
| Power Plant Theory and Applications | 4 |
| Aircraft Propulsion and Applications | 4 |

Technical Electives: (9 Semester Hours)

| | |
|---|---|
| Aviation Maintenance, | |
| Aeronautical Science, | |
| Avionics Technology, | |
| Management, | |
| Computer Science, and | |
| Electrical Engineering or | 9 |
| Aircraft Maintenance Practicum and | |
| Advanced Aircraft Maintenance Practicum | 9 |

General Education: (33 Semester Hours)

| | |
|--|---|
| Communication Theory and Skills | 3 |
| Lower Level Humanities | 3 |
| Lower Level Social Sciences | 6 |
| Introduction to Computer Based Systems or | |
| Introduction to Computers and Applications | 3 |
| Principles of Management | 3 |
| College Mathematics for Aviation or | |
| Quantitative Methods I or | |
| College Algebra | 3 |
| College Mathematics for Aviation II or | |
| Statistics with Aviation Applications or | |
| Business Statistics | 3 |
| Explorations in Physics | 3 |

Degree Summary:

| | |
|---------------------|----|
| Technical Core | 30 |
| Technical Electives | 9 |
| General Education | 33 |

A.S. Professional Aeronautics:

Occupational Specialty: Any MOS

Degree Requirements: 60

Technical Core: (18 Semester Hours)

| | |
|-----------------------|----|
| History of Aviation, | |
| Aeronautical Science, | |
| Aviation Maintenance, | |
| Air Traffic Control, | |
| Safety, and | |
| Management | 18 |

Technical Electives: (9 Semester Hours)

| | |
|--------------------------|---|
| Aviation Legislation | 3 |
| Principles of Management | 3 |
| Microeconomics | 3 |

General Education: (27 Semester Hours)

| | |
|--|---|
| Communication Theory and Skills | 9 |
| Lower Level Humanities | 3 |
| Lower Level Social Science | 3 |
| Introduction to Computer Based Systems or | |
| Introduction to Computers and Applications or | |
| Computer Science | |
| College Algebra | 3 |
| Statistics with Aviation Applications or | |
| Business Statistics | 3 |
| Explorations in Physics | 3 |

Open Electives: (12 Semester Hours) 12

Degree Summary:

| | |
|---------------------|----|
| Technical Core | 18 |
| Technical Electives | 9 |
| General Education | 27 |
| Open Electives | 12 |

All of the Degree Completion Courses described herein are available through the Navy College Program Distance Learning Partnership with Embry-Riddle Aeronautical University in Distance Learning (Online) and Resident Learning (Campus) formats. Most campus locations are within the vicinity of Marine Corps Bases/Stations.

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Recommended ACE Accreditations

It is at the discretion of the College/University to recognize course accreditation during the application process for a degree.

Military Education:

| Title | Military ID | ACE ID | Credits | Level |
|--|--------------|--------------|---------|------------|
| Recruit Training | 808 | MC-2204-0038 | 8 | Lower |
| MCI Personal Finance | 3420E | MC-1401-0009 | 1 | Lower |
| MCI Fundamentals of USMC Leadership | 033N | MC-1406-0023 | 1 | Lower |
| Corporal's Course (Resident) | L9K | MC-1405-0051 | 4 | Lower |
| Sergeant's Course (Resident) | T4M | MC-2204-0143 | 7 | Lower |
| MCI Sergeants Distance Education | 8010 | MC-2204-0127 | 7 | Lower |
| SNCO Career Course (Resident) | T8A | MC-2204-0140 | 7 | Lower |
| SNCO Career Distance Education | 7100 | MC-2204-0139 | 4 | Lower |
| SNCO Advanced Course (Resident) | T8H | MC-2204-0076 | 9 | Lower |
| SNCO Advanced Distance Education | 8200 | MC-2204-0142 | 3 | Lower |
| MCI Warfighting Skills Program | 7400 | MC-2204-0112 | 2 | Lower |
| MCI Theory/Construction of Turbine Engines | 602 | MC-1710-0004 | 2 | Vocational |
| MCI Aviation Maintenance NCO | 6001A | MC-1704-0010 | 3 | Lower |
| MCI Aviation Maintenance W/C Supervisor | 605 | MC-1406-0042 | 2 | Vocational |
| MCI Aviation Quality Assurance Supervisor | 606A | MC-1405-0047 | 1 | Lower |
| FASO Naval Aviation Logs and Records | D/E-555-0039 | NV-1408-0046 | 2 | Lower |
| FASO Naval Aviation Maintenance Control | D/E-555-0040 | NV-1408-0047 | 2 | Lower |
| Drill Instructor School | 81E | MC-1406-0036 | 8 | Lower |
| Recruiter School | 81C | MC-0327-0001 | 5 | Lower |
| Marine Security Guard School | 81H | MC-1728-0006 | 4 | Lower |
| Classroom Instructor (MOS) School | A-012-0077 | NV-1406-0044 | 3/3 | Low/Up |
| Naval Air Crewman Candidates School | Q-050-1500 | NV-0803-0012 | 7 | Lower |
| Survival, Evasion, Resistance and Escape | D/E-2D-0039 | NV-0803-0015 | 3 | Lower |

Military Skills:

| Description | Military ID | ACE ID | Credits | Level |
|------------------------------|-------------|--------------|---------|-------------|
| Level III ITSS MATMEP (SSgt) | 6116 | MCE-6116-001 | 16/2 | Lower/Upper |
| Level IV ITSS MATMEP (GySgt) | 6116 | MCE-6116-001 | 28/3 | Lower/Upper |
| Level III ITSS MATMEP (SSgt) | 6176 | MCE-6176-001 | 3/1 | Lower/Upper |
| Level IV ITSS MATMEP (GySgt) | 6176 | MCE-6176-001 | 3/1 | Lower/Upper |
| Master Sergeant | 6019 | MCE-6019-001 | 9/9 | Lower/Upper |
| Master Gunnery Sergeant | 6019 | MCE-6019-001 | 9/15 | Lower/Upper |

In the accreditation process:

- *Military education may be primarily accredited toward Elective Credit Hours (General Education).*
- *Military skills may be primarily accredited toward Technical Credit Hours (Core Education).*

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