**UNITED STATES MARINE CORPS**

# Road Map

***The road to success for***

# MOS 6433

## Helo Electrical/Instrument/Flight Control Systems Technician, IMA

## 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: 6433, HELO Electrical/Instrument/Flight Control Systems Technician

- Complete Recruit Training
- Complete Marine Combat Training (MCT)
- Complete Avionics Common Core Class A1 (N23E2X2)
- Complete Aviation Electrician Mate Strand (N23A972)
- Complete Rotary Wing Avionics Maintenance Course (M23A9X1)
- 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 Electronics Mechanic (DOT Code 828.261-022) is available (https://www.cnet.navy.mil/usmap/usmc_trades.html). This certification can used be in the future to attain B.S. Professional Aeronautics through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).

## Duty:

- IMA Helo Electrical/Instrument/Flight Control System Technician

## Special Duty:

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

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# 2nd Year

## MOS: 6433, HELO Electrical/Instrument/Flight Control Systems Technician

- Progress toward Individual Training Standards System (ITSS) Marine Corps Maintenance Training Management and Evaluation Program (MATMEP) Level III Qualification as per MCO P4790.20
- 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

## PME:

- Complete MCI (033N) Fundamentals of Marine Corps Leadership

## Voluntary Education:

- Apprenticeship program for Electronics Mechanic (DOT Code 828.261-022) is available (https://www.cnet.navy.mil/usmap/usmc_trades.html ). This certification can used be in the future to attain B.S. Professional Aeronautics through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).

## Duty:

- IMA Helo Electrical/Instrument/Flight Control System Technician
- W/C Assistant Collateral Duty Assignment (I.E. Tool Control NCO, Safety NCO, DTPL...)

## Special Duty:

- None recommended until the rank of Sergeant

# 3rd Year

## MOS: 6433, HELO Electrical/Instrument/Flight Control Systems Technician

- Obtain ITSS MATMEP Level III Qualification as per MCO P4790.20
- 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 Electronics Mechanic (DOT Code 828.261-022) is available (https://www.cnet.navy.mil/usmap/usmc_trades.html). This certification can used be in the future to attain B.S. Professional Aeronautics through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).

## Duty:

- IMA Helo Electrical/Instrument/Flight Control System Technician
- 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: 6433, HELO Electrical/Instrument/Flight Control Systems Technician

- Progress toward ITSS MATMEP Level IV Qualification as per MCO P4790.20
- Begin Collateral Duty Quality Assurance Representative CDQAR training syllabus
- In preparation for future billets, the following courses are recommended:
  - Attend FASO (D-555-0041) Intermediate Maintenance Activity (IMA) Work center Management/Documentation Procedures Course
  - Attend FASO (D-555-0043) IMA Production Control Procedures 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 Electronics Mechanic (DOT Code 828.261-022) is available (https://www.cnet.navy.mil/usmap/usmc_trades.html ). This certification can used be in the future to attain B.S. Professional Aeronautics through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).

## Duty:

- IMA Helo Electrical/Instrument/Flight Control System Technician
- 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

## Special Duty:

- None recommended until the rank of Sergeant

# Sergeant

## MOS: 6433, HELO Electrical/Instrument/Flight Control Systems Technician

- Obtain ITSS MATMEP Level IV Qualification as per MCO P4790.20
- Obtain Collateral Duty Quality Assurance Representative CDQAR Certification
- Attend any/all of the following courses (as required by billet):
  - Attend FASO (D-555-0041) Intermediate Maintenance Activity (IMA) Work center Management/Documentation Procedures Course
  - Attend FASO (D-555-0043) IMA Production Control Procedures 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:

- Apprenticeship program for Electronics Mechanic (DOT Code 828.261-022) is available (https://www.cnet.navy.mil/usmap/usmc_trades.html ). This certification can used be in the future to attain B.S. Professional Aeronautics through Embry-Riddle Aeronautical University Navy Distance Learning Program. (http://www.erau.edu/ec/wwc/03navy_prog.html).
- Attend A/C Elect Interface Devices "I" Level (N37AF83)
- Attend Advanced Avionics Integrated Weapons System Maintenance (N2366D2)

## Duty:

- Recommend the following billet assignments:
  - W/C Crew / Shift Leader
  - W/C ANCOIC/NCOIC
  - Collateral Duty Quality Assurance Representative
  - Quality Assurance Representative
  - Production Controller

## Special Duty:

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

# Staff Sergeant

## MOS: 6434, Advanced Electrical/Instrument/Flight Control Systems Technician

- Work Center
  - If not previously; attend FASO (D-555-0041) Intermediate Maintenance Activity (IMA) Work center Management/Documentation Procedures Course
- Production Control
  - If not previously; attend FASO (D-555-0043) IMA Production Control Procedures Course
  - 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
- Attend Naval Aviation Maintenance Training Unit NAMTRAU (C-600-3210) Senior Enlisted Aviation Maintenance (SEAM) Course
- 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
  - COMSEC Custodian, Squadron
  - W/C Collateral Duty Quality Assurance Representative
  - Quality Assurance Representative
  - Production Controller

## Special Duty:

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

# Gunnery Sergeant

## MOS: 6434, Advanced Electrical/Instrument/Flight Control Systems Technician

- Production Control
  - Attend FASO (D-555-0044) IMA Material Control Procedures 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
  - COMSEC custodian, Squadron/MAG
  - Quality Assurance Division Chief
  - Production Control SNCOIC/Chief

## Special Duty:

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

# Master Sergeant

## MOS: 6391, Avionics Maintenance Chief

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

## PME:

- Attend Avionics 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:
  - Avionics Maintenance Chief (Squadron)
  - Assistant Avionics 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

# Master Gunnery Sergeant

## MOS: 6391, Avionics 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 Avionics 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:
  - Avionics Maintenance Chief (Squadron, MALS, MAG, MAW)
  - SNCOIC Avionics MOS "A" or "C" School
  - MAW LOGMAT Chief Inspector

## Special Duty:

- HQMC

# 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 |
| Avionics Common Core Class A1 | C-100-2020 | NV-1715-1819 | 8 | Included |
| Aviation Electrician Mate Strand | C-602-2039 | NV-1715-1820 | 9 | Lower |
| Rotary Wing Avi Maint Sys | M-602-5811 | pending | 0 | |
| 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 | Lower/Upper |
| Advanced Avionics Integrated Weapons System Maintenance | C-100-2012 | NV-1715-1927 | 30 | Lower |

## Military Skills:

| Description | Military ID | ACE ID | Credits | Level |
|---|---|---|---|---|
| Level III ITSS MATMEP | 6433/6434 | MCE-6433-002 | 13 | Lower/Upper |
| Level IV ITSS MATMEP | 6433/6434 | MCE-6433-002 | 19/6 | Lower/Upper |
| Master Sergeant | 6391 | MCE-6391-002 | 9/9 | Lower/Upper |
| Master Gunnery Sergeant | 6391 | MCE-6391-002 | 18/15 | 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).*