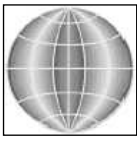


**EM CAREER PATH
(SW)**



Electrician's Mates (EM). EMs perform corrective and preventive maintenance on power and lighting circuits, electrical fixtures, motors, generators, voltage and frequency regulators, controllers, distribution switchboards, galley and laundry equipment.					
YEARS OF SERVICE	CAREER MILESTONES	AVERAGE TIME TO ADVANCE	COMMISSIONING OR OTHER SPECIAL PROGRAMS	SEA/SHORE FLOW	TYPICAL CAREER PATH DEVELOPMENT
27-30	EMCM	22.4 Yrs	CSEL, ECM, Brig, Senior Enl Academy (Instructor)	36	4 th Shore Tour Billet: CSEL, ECM/TECHAD, Dir. Of Training, CNE staff advisor. Duty: BUPERS, Schoolhouse, ATG/Inspector i.e. (TYCOM Insp. Team) IMA/F Qualification: MTS, ATS, SEA/SEL
23-27	EMCM EMCS	22.4 Yrs 18.3	CSEL	48	4 th Sea Tour Billet: CSEL, DLCPO, LCPO, 3MC. Duty: Ship/Squadron/Battalion/INSURV, NSW. Qualification: SW, AW, SCW, EXW, ETT, DCTT, 3MTT, SEA/SEL, EDO/EOOW, 3MC
20-23	EMCM EMCS EMC	22.4 Yrs 18.3 13.2	CWO, CSEL, ECM, Brig	36	3 rd Shore Tour Billet: CSEL, ECM/TECHAD, LCPO, Instructor, RDC. Duty: BUPERS, NSW, Schoolhouse, ATG/Inspector i.e. (TYCOM Insp. Team) IMA/F. Recruiting, RMC. Qualification: MTS, ATS, SEA/SEL, Instructor
17-20	EMCS EMC EM1	18.3 Yrs 13.2 8	CWO, OCS, MECP, CSEL, DAPA, USS CONSTITUTION	48	3 rd Sea Tour Billet: LPO, DLCPO, LCPO, 3MC. Duty: Ship, NSW, or Squadron/Battalion/INSURV Qualification: SW, AW, SCW, EXW, ETT, DCTT, 3MTT, "C" /"D" School, EDO/EOOW, SDV/DCS Tech, DDS Tech, SDV/DCS Sup



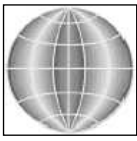
EM CAREER PATH (SW)



YEARS OF SERVICE	CAREER MILESTONES	AVERAGE TIME TO ADVANCE	COMMISSIONING OR OTHER SPECIAL PROGRAMS	SEA/SHORE FLOW	TYPICAL CAREER PATH DEVELOPMENT
14-17	EMC EM1	13.2 Yrs 8	LDO, CWO, OCS, MECP	36	2 nd Shore Tour Billet: LCPO/LPO, Instructor, RDC, Recruiter. Duty: Schoolhouse, RTC, ATG, IMA/F, Recruiting, BUPERS. Qualification: MTS, ATS, EM 'C'/'D' School, SEA, Instructor, SDV/DCS Tech, DDS Tech, SDV/DCS Sup
9-14	EMC EM1 EM2	13.2 Yrs 8 3.6	LDO, OCS, NSW Special Boat Teams, ACUs, RIVRONs, Joint Commands	60	2 nd Sea Tour: Billet: WCS, LPO, 3MC Duty: Ship, NSW, or Squadron/Battalion. Qualification: SW, AW, SCW, EXW, ETT, DCTT, "C"/"D" School, EDO/EOOW, SDV/DCS Tech, DDS Tech, SDV/DCS Sup, QAS.
6-9	EM1 EM2 EM3	8 Yrs 3.6 1.9	STA-21, OCS, MECP, Naval Academy, USS CONSTITUTION, DAPA	36	1 st Shore Tour Billet: RDC, Recruiting, Instructor. Duty: Schoolhouse, RTC, ATG, IMA/F, Recruiting. Qualification: MTS, "C" or "D" School, Instructor, NSW
2-6	EM2 EM3	3.6 Yrs 1.9	NROTC, OCS, NSW Special Boat Teams, ACUs, RIVRONs, Joint Commands	53	1 st Sea Tour Billet: WCS, QAI, Operator/Maintenance Tech. Duty: Ship or Squadron/Battalion. Qualification: Repair EM, SW, AW, EPCC, SCW, EXW, ETT
1+/-	EM3, EMFN EMFA Accession Training	9 Months			Recruit Training and all schools or training events are required to be completed prior to reporting to their first operational command

Notes:

1. "A" School not required.
2. EM is a sea intensive rating (refer to Sea/Shore Flow front page). EMs are not required to hold a security clearance; however, there may be certain billets that require a clearance.
3. In rating shore duty is limited and is normally "A" or "C" School Instructors, ATG, RMCs/IMFs. Although not required, many Sailors can expect a tour as a Recruiter or Recruit Division Commander (RDC).
4. Tours at BUPERS and special billets such; Instructor, NPC, Staff duty (CNSL, CNAL, NSW), Safety Center, INSURV, etc. require special screening.



EM CAREER PATH (SW)



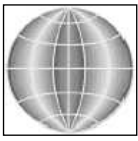
5. Tour at BUPERS 3 as an Enlisted Community Manager or Enlisted Community Manager Technical Adviser are for high-performing E8s or E9s. It is a highly competitive tour requiring thorough understanding of the Rating and manning and manpower policies. ECMs handle multiple Ratings affecting thousands of Sailors, adjudicate Career Waypoints applications, develop and present advancement quotas, school quotas, accession and strength policies and initiatives for community health.

6. EM1/EMC/EMCSs on ships that are eligible are encouraged to qualify EOOW.

7. Advancement to EMCM requires citizenship and access to classified information prior to meeting advancement eligibility, per BUPERSINST 1430.16F.

8. NEC information:

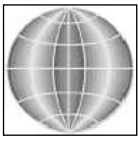
- a. U35A - Electricians Mate Surface Ship Electrical Advanced Maintenance performs organizational corrective maintenance as well as provide a clear understanding of troubleshooting, fault isolation to the component level, and identification of medium safety awareness procedures regarding electrical and electronic equipment and systems. The hands-on knowledge and skills acquired will be used under limited supervision onboard naval vessels for all conditions of readiness.
- b. U36A – LPD-17 Class Electric Plant Maintainer performs organizational level preventive and corrective maintenance, system alignment, troubleshooting and fault isolation within the Electric Plant. Utilizing technical manuals and Engineering Operations Sequencing Systems (EOSS) procedures, pipeline graduates will be able to perform tasks necessary to maintain the system with little or no Intermediate Level or Depot Level assistance.
- c. U37A – LPD-17 Class Engineering Control System (ECS) Master Maintenance Technician perform organizational level preventive maintenance and corrective maintenance, system alignment, troubleshooting and fault isolation making use of the Built-in Test (BIT) and applicable General Purpose Electronic Test Equipment (GPETE) on LPD-17 Class ECS. Supervise cross functional maintenance teams and coordinate ECS related repairs/actions to include Ship Wide Area Network (SWAN) and other system interfaces. Utilize technical manuals and Engineering Operational Sequencing System (EOSS) procedures. Perform tasks necessary to maintain the system with little or no Intermediate Level or Depot Level assistance.
- d. U38A - LHD-1 Electrical Component Maintenance Technician performs operational, preventive and corrective maintenance on LHD-1 unique electrical components, 400HZ Static Frequency Converters and the SSM Degaussing system.
- e. U39A - Navy Afloat Maintenance Training Strategy (NAMTS) performs Outside Electrical Repair intermediate-level electrical maintenance procedures on various shipboard equipment and systems in support of Fleet-directed requirements. Demonstrates knowledge of intermediate-level repair procedures, repair and maintenance standards, quality assurance specifications and proper use of IMA industrial machinery. Award of this NEC is based on documented completion of Fleet-specified tasks for this skill and demonstration of advanced-level proficiency during hands-on training and production work as specified in the current Job Qualification Requirement (JQR) located at <https://www.portal.navy.mil/crmc/NAMTS/>. Training is led by journeyman-level craftsmen and supplemented by appropriate self-paced instruction consistent with Department of Labor journeyman certification.
- f. U41A - Minesweeping Electrician operates, tests, adjusts, and performs organizational level maintenance on automatic degaussing equipment and all specialized electrical equipment involved in magnetic and acoustic mine sweeping. Uses tools, meters, and special test equipment necessary to correctly test, align, troubleshoot, and repair electrical and electronic components of the automatic degaussing and mine sweeping equipment. Sets up the equipment to conform to various operational orders.



EM CAREER PATH (SW)



- g. U42A - Steam Catapult Electrician performs organizational level maintenance on catapult and arresting gear systems, including synchros, repeaters, 110/220/440V electrical systems, contacts, relays, micro switches, series and parallel switches, pressure and temperature sensing switches, torque and gear limit switches, chronograph, and control console electrical functions. Reads and interprets electrical/mechanical drawings.
- h. U43A - LAMPS MK III RAST/HRS Electrical Maintenceman performs maintenance on RAST system components. Repairs failed electrical and electronic components by removal and replacement to the lowest replaceable unit (LRU).
- i. U44A - LSD-41/49 Class Advanced Engineering Control System (AECS-MCS) Maintenance Technician performs organizational level preventive and corrective maintenance, troubleshooting and fault isolation procedures on the Advanced Engineering Control System (AECS) onboard upgraded LSD 41/49 Class Ships. Training for the AECS includes: Machinery Control System (MCS), Local Area Network (LAN), Diagnostic Expert Test Engineering Reasoner (DEXTER), On-Board Trainer (OBT), and Ship Control System (SCS).
- j. U56A - Electromagnetic Aircraft Launch System (EMALS)/Advance Arresting Gear (AAG) Electrician Performs pre/post operational system checks, system operations and maintenance on electrical control systems of EMALS and AAG. Monitors and identifies conditions which may lead to an emergency and/or casualty, and initiates corrective and/or emergency procedures.
- k. U58A - Deck Systems Electrical Technician Performs organizational electrical maintenance on various deck equipment and systems to include Amphibious Assault, UNREP, Anchoring and Hull Outfitting Equipment.
- l. U60A - Advanced Degaussing Maintenance Technician Performs operation, troubleshooting, and repair to the subassembly or component level for shipboard Advanced Degaussing Systems installed onboard CVN-77, CVN-78, DDG-1000, LCS-1, and LPD-17 Class ships.
- m. 762A - Electrical Motor Rewinder rewinds AC and DC motor and generator stators, rotors, field coils and armatures utilizing round wire or formed coils. Takes rewinding data, replaces brushes, adjusts brush rigging, dips, bakes, renews bearings, assembles and test runs.
- n. 763A - UNREP Electrical-Electronics Control Maintenance performs organizational level maintenance on electro hydraulic power and electronic controls associated with UNREP systems. Repairs circuits and control devices and perform systems test on UNREP systems.
- o. 764A - Shipboard Elevator Electronic/Electrical System Maintenance Technician tests inspects and performs organizational level maintenance on shipboard weapons and cargo handling elevators on a system and component level. Troubleshoots and repairs electronic/electrical systems and equipment, such as controllers, sensors, switches, and the electrical components of hydraulic/mechanical interfaces. Coordinates efforts with operators and maintainers of other ratings using or servicing the systems.
- p. 765A - Physical/Dimensional Calibration Specialist performs third echelon (MIRCS, FMCL, NCL) level duties involving physical, mechanical, plane and angular measurements and calibration, including flow and temperature measurement and calibration. Aligns, inspects, repairs, troubleshoots, modifies, and calibrates electro/mechanical test and monitoring systems (TAMS) using calibration and working standards.
- q. U16A - Shipboard Engineering Plant Program Manager administers, manages and evaluates shipboard engineering programs. Recognizes engineering systems and major components external to the propulsion plant which comes under the cognizance of the Engineering Officer of the Watch (EOOW). Evaluates operating conditions and makes recommendations to the engineering officer.
- r. 811A - 3-M System Coordinator Responsible for the coordination of all facets of maintenance and material management (3-M) systems. Possesses the ability to implement, evaluate and coordinate the unit's planned maintenance systems (PMS). Responsible for the operation and management of the Maintenance Data Systems (MDS). Serves as the unit's availability manager.



EM CAREER PATH (SW)



9. Acronyms:

ATS – Afloat Training Specialist
MTS – Master Training Specialist
IMA – Intermediate Maintenance Activity
IMF – Intermediate Maintenance Facility
FRC – Fleet Readiness Center
RMC – Regional Maintenance Center
AIMD – Air Intermediate Maintenance Detachment
NSW – Navy Special Warfare
SDV – SEAL Delivery Vehicle
DCS – Dry Combat Submersible
DDS – Dry Deck Shelter
EPCC – Electric Plant Control Console Operator
PACC – Propulsion and Auxiliaries Control Console Operator
QAS – Quality Assurance Supervisor
QAI – Quality Assurance Inspector
QAO – Quality Assurance Officer
AQAO – Assistant Quality Assurance Officer
DCCT – Damage Control Training Team
ETT – Engineering Training Team
CEW – Chief Electrical Watch (CVN)
CAO – Chief Auxiliary Operator (CVN)
EDO – Engineering Duty Officer
COW – Chief of the Watch (CVN non NUC EOOW)
RCO – Readiness Control Officer (LCS EOOW equivalent)
EOOW – Engineering Officer of the Watch
SEPEC – Shipboard Engineering Plant Program Manager

Considerations for advancement from E6 to E7

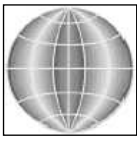
NOTE: Intermediate Leader Development Course (ILDC) and Advanced Leader Development Course (ALDC) will be a prerequisite for advancement to E-6 and E-7 respectively, starting in calendar year 2025.

1. Sea Assignments (all)

- LPO at Sea/Operational/Joint Command
- Qualified EDO/EOOW if assigned to an eligible command
- NEC U35A SSEAMC, Chief of the Watch (CVN) a plus
- At least one warfare pin
- DCTT/ETT
- Command Collateral with documented impact
- Qualified 3M 301-305
- FCPOA involvement
- Sailor 360 involvement

2. Shore Assignments (all)

- Recruiting Duty (LPO a plus)/RDC (w/MTS)/ATG(w/ATS)/TYCOM Staff/BUPERS//Expeditionary Service/SPECWAR/Expeditionary/Rating Instructor (All screened billets)
- Instructor Duty (805A) (MTS at all levels)
- Completed PPME, USMAP



EM CAREER PATH (SW)



Considerations for advancement from E7 to E8

NOTE: Chief Petty Officer Leader Development Course (CPO-LDC) will be a prerequisite for advancement to E-8 commencing with the Fiscal Year 2026 Selection Board.

1. Sea Assignments (all)

- Department LCPO a plus
- LCPO / 3MC at Sea/Operational/Joint Command
- Qualified EDO/EOOW/ Chief of the Watch (CVN)
- NEC U16A a plus
- At least one warfare pin
- ETT Coordinator a plus
- Command Collateral with documented impact
- Completed PPME/JPME/USMAP/SEA
- Active CPO Mess involvement, holding a position with documented performance
- Sailor 360 involvement - Leading Initiation or a committee a plus

2. Shore Assignments (all)

- Recruiting Duty (serving as LSO or RINC)/RDC/ATG (obtained ATS/MTS)/TYCOM Staff/BUPERS/SPECWAR/Expeditionary/Rating Instructor (obtained MTS) (All screened billets)/FLC's (impact billet on the waterfront)/ASD (with documented impact) Disaster Preparedness operations team leader.
- Completed PPME/JPME/SEJPME I/USMAP/SEA

Considerations for advancement from E8 to E9

1. Sea Assignments (all)

- Department LCPO a plus
- LCPO (CVN) or 3MC at Sea/Operational/Joint Command
- At least one warfare pin
- Qualified EDO/EOOW/Chief of the Watch (CVN)
- ETT Coordinator
- Command Collateral with documented impact
- Completed PPME/JPME/USMAP/SEA
- Active CPO Mess involvement, holding a position with documented performance
- Sailor 360 involvement - Leading Initiation or a committee a plus

2. Shore Assignments (all)

- Recruiting Duty (serving as LSO or LCPO)/RDC (Ship LCPO)/ATG (obtained ATS/MTS)/TYCOM Staff/BUPERS/SPECWAR/Expeditionary/Rating Instructor (obtained MTS) (All screened billets)/FLC's (impact billet on the waterfront)/ASD (with documented impact)
- Completed PPME/JPME/SEJPME I and II/USMAP/SEA
- Served as SEL or DLCPO