



## GSM CAREER PATH (SW)



| Gas Turbine Technicians (Mechanical) (GSM). GSMs are responsible for operating, maintaining and repairing the mechanical components of gas turbine engines and main propulsion machinery including reduction gears, shafts and controllable pitch propellers; auxiliary equipment and propulsion control systems. |                      |                         |   |                |   |
|---|----------------------|-------------------------|---|----------------|---|
| YEARS OF SERVICE  | CAREER MILESTONES    | AVERAGE TIME TO ADVANCE | COMMISSIONING OR OTHER SPECIAL PROGRAMS | SEA/SHORE FLOW | TYPICAL CAREER PATH DEVELOPMENT   |
| 28-30   | GSCM                 | 21.6 Yrs                | CSEL                                    | 36             | 4 <sup>th</sup> Shore Tour<br>Billet: ECM/TECHAD, Training Manager, Ship Sup, ATG Lead, MGTI<br>Duty: BUPERS, Squadron, Schoolhouse   |
| 24-28   | GSCM                 | 21.6 Yrs                | CSEL                                    | 48             | 4 <sup>th</sup> Sea Tour<br>Billet: Dept. LCPO, MGTI<br>Duty: CG/DDG/LCS/LHA/LHD, DESRON, CCSG<br>Qualification: EOOW, PCO, ETT Coordinator   |
| 21-24   | GSCM<br>GSCS         | 21.6 Yrs<br>16.1        | CWO, CSEL, RDC, Recruiter               | 36             | 3 <sup>rd</sup> Shore Tour<br>Billet: ECM/TECHAD, Dept LCPO, MGTI, Recruiter, RDC, Instructor, Ship Sup, Lead Technician<br>Duty: BUPERS, RTC, RMC, Ship Sup, SWSC, Squadron, NRD, RTC<br>Qualification: ATS, MTS, School: MGTI, SEA  |
| 17-21   | GSCS<br>GSMC<br>GSM1 | 16.1 Yrs<br>13.3<br>8.9 | CWO                                     | 48             | 3 <sup>rd</sup> Sea Tour<br>Billet: Dept LCPO, Div LCPO, MGTI<br>Duty: ACU/CG/DDG/LCS/LHA/LHD<br>Qualification: ESWS, Engine room Operator, Engineering Propulsion Technician (EPT), Engineering Controls Operator (ECO), PACC, EPCC, EOOW, RCO GSCS-ETT Coordinator<br>School: Prop Plant Mgr (U16A NEC) |
| 14-17   | GSMC<br>GSM1         | 13.1 Yrs<br>8.9         | LDO, CWO, RDC, Recruiter                | 36             | 2 <sup>nd</sup> Shore Tour<br>Billet: Instructor, Maintainer<br>Duty: ATG, RMC, SWSC, RTC<br>Qualification: ATS, MTS, NAMTS<br>School: MGTI   |



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| YEARS OF SERVICE | CAREER MILESTONES                       | AVERAGE TIME TO ADVANCE | COMMISSIONING OR OTHER SPECIAL PROGRAMS                  | SEA/SHORE FLOW | TYPICAL CAREER PATH DEVELOPMENT  |
|------------------|---|-------------------------|--|----------------|--|
| 9-14             | GSM1<br>GSM2                            | 8.3 Yrs<br>4.3          | LDO, OCS   | 60             | 2 <sup>nd</sup> Sea Tour<br>Billet: Technician, LPO<br>Duty:<br>ACU/CG/DDG/LHA/LHD, LCS<br>Qualification: EAWS, ESWS,<br>Engine Room Operator<br>Engineering Propulsion<br>Technician (EPT),<br>Engineering Controls<br>Operator (ECO), PACC,<br>EPCC, EOOW, RCO, EDO,<br>ETT. |
| 6-9              | GSM2<br>GSM3                            | 3.7 Yrs<br>2.3          | STA-21, OCS, MECP,<br>Naval Academy, NROTC,<br>Recruiter | 36             | 1 <sup>st</sup> Shore Tour<br>Billet: Instructor, Recruiter,<br>Maintenance Technician<br>Duty: Recruiter, NSYD,<br>RMC, ATG, SWSC<br>Qualification: MTS, ATS,<br>Inspector, NAMTS   |
| 2-6              | GSM2<br>GSM3                            | 3.7 Yrs<br>2.3          | STA-21, OCS, MECP,<br>Naval Academy, NROTC               | 48             | 1 <sup>st</sup> Sea Tour<br>Billet: Maintenance<br>Technician.<br>Duty: CG/DDG/LHA/LHD.<br>Qualification: WCS, ESWS,<br>ERO, EAWS<br>Duty: LCS<br>Qualification: WCS, ESWS,<br>EPT<br>Duty: ACU<br>Qualification: WCS, ESWS,<br>Deck Engineer (NEC-800D)                       |
| 1+/-             | GSMFN<br>GSMFA<br>Accession<br>Training | 9 Months                |  |                | Recruit Training, "A" and<br>"C" Schools   |

### Notes:

\*\*\* First Sea tour adjusted to 48 months due to DMAP rating. \*\*\*

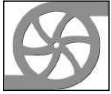
1. A-school not required.
2. This is a compression rating. GSM and GSE ratings compress to GS rating at Senior Chief.
3. In rate shore duty normally limited to "A" or "C" School Instructor and Repair Facilities. Most can expect a tour in recruiting or as an RDC.
4. The Marine Gas Turbine Inspector (MGTI) program is open to E-6 (with waiver) and above. Sea tours for MGTI's are limited. Those who qualify MGTI often assume a different career path once qualified, including Staff sea billets such as CCSG and DESRON tours and limited to shore tours at RMC facilities. They are expected to maintain regular sea/shore flow and should demonstrate leadership throughout those billets in which they are assigned.



## GSM CAREER PATH (SW)



5. Tours at a Flag Staff, NPC and BUPERS require special screening.
6. Tour at BUPERS 3 as an Enlisted Community Manager or Enlisted Community Manager Technical Adviser is 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, school quotas, accession and strength policies and initiatives for community health.
7. GSM2s on 1<sup>st</sup> Sea Tour are encouraged to qualify Oil King Assistant and/or Propulsion Auxiliary Control Console Operator (PACC) (assigned to Surface Ships).
8. NEC information:
  - a. U04A - CG-47 Gas Turbine Mechanical Maintenance Technician operates and performs advanced organizational and/or intermediate maintenance to the component level on CG-47 gas turbine main propulsion and electric generating plants, mechanical systems, and auxiliary support systems.
  - b. U06A - DDG-51 Gas Turbine Mechanical Maintenance Technician operates and performs advanced organizational and/or intermediate maintenance to the component level on DDG-51 gas turbine main propulsion and electric generating plants mechanical system and auxiliary support systems.
  - c. 728B - LCAC Deck Engineer is a critical crew position aboard the LCAC, constantly working with high technical and potentially dangerous high-speed machinery. Also maintains, troubleshoots, and perform maintenance on the LCAC gas turbine engines, propulsion and lift system, and mechanical auxiliaries. The Deck Engineer will be familiar with the ABS mission.
  - d. 729B - LCAC Craft Engineer/Assistant Operator operates the Landing Craft, Air Cushion (LCAC) vehicle engineering plant (propulsion, lift, and control systems) in amphibious assault and training operations. Performs systems diagnostics, troubleshooting, and limited engineering systems repair during operations. Operates the LCAC when the Craftmaster (NEC BM-0167) is incapacitated.
  - e. 730B - LCAC Mechanical Systems Maintenance Technician performs organizational and intermediate level maintenance on LCAC propulsion and lift systems.
  - f. U07A - Marine Gas Turbine Inspector performs periodic borescope inspections, mechanical grooms, and gas turbine bulletin inspections. Provides troubleshooting and on-the-job training, oversees intermediate maintenance level repairs, and assists in calibration. Makes engine change-out recommendations and oversees gas turbine change installations. Ensures accuracy of engine logbook entries.
  - g. U08A - NAMTS Gas Turbine Repair Technician performs Navy Afloat Maintenance Training Strategy (NAMTS) intermediate-level repair of marine gas turbine engines in support of Fleet-directed requirements. Demonstrates knowledge of intermediate-level repair procedures, repair and maintenance standards, quality assurance specifications, and proper use of maintenance industrial machinery.
  - h. U10A - CG Smart Ship Engineering Control System Equipment (ECSE) Operator and Maintenance Technicians provide personnel with information regarding engineering administrative programs necessary for performance as work center supervisor and with knowledge and skills required to perform organizational level maintenance on pumps, valves, hydraulic systems, fuel systems, lube oil systems, air systems, waste heat boilers and LM2500/Allison gas turbine engines associated with the CG-47 Smart Ship class engineering plant.
  - i. U12A - DDG-M Gas Turbine Mechanical Maintenance Technician operates and performs advanced organizational and/or intermediate mechanical maintenance to the component level on DDG-M gas turbine main propulsion and electric generating plants mechanical system and auxiliary support systems.
  - j. 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.



## GSM CAREER PATH (SW)



k. U63A - LHA-6 (AMERICA)/LHD-8 (MAKIN ISLAND) Class Ship Gas Turbine Mechanical Maintenance Technician Performs LHA-6 and LHD-8 Class Ship advanced organizational and/or intermediate mechanical maintenance on the LM2500+ Single Annular Combustor (SAC) Main Propulsion Gas Turbine Engine (GTE).

l. U69A - LCS-1 (Freedom Variant) Readiness Control Officer (RCO) Cross-trained in Main Propulsion and Support systems, Auxiliary systems, Electrical systems, Damage Control systems and the Main Propulsion Control and Monitoring System (MPCMS). Serve in supervisory and watch team management as well as advanced technical positions as RCO at sea and Engineering Duty Officer (EDO) in port. Utilizing Human Machine Interfaces (HMIs), Local and Remote Control Panels and Consoles, System Diagrams, oversee or perform aligning, operating, monitoring and casualty control procedures on all engineering systems in accordance with Engineering Operational Sequencing System (EOSS). Using PQS manuals, oversee career training of junior personnel. Using PMS maintenance cards, ship's technical manuals and EOSS procedures, supervise and guide planned and corrective maintenance. Perform tasks associated with the RCO (underway) and EDO (in port) shipboard watch station/position with limited to no supervision under all conditions of readiness.

m. U70A - LCS-2 (Independence Variant) Readiness Control Officer (RCO) Cross-trained in Main Propulsion and Support systems, Auxiliary systems, Electrical systems, Damage Control systems and the Engineering Control system (ECS). Serve in supervisory and watch team management as well as advanced technical positions as RCO at sea and Engineering Duty Officer (EDO) in port. Utilizing Human Machine Interfaces (HMIs), Local and Remote Control Panels and Consoles, System Diagrams, oversee or perform aligning, operating, monitoring and casualty control procedures on all engineering systems in accordance with Engineering Operational Sequencing System (EOSS). Using PQS manuals, oversee career training of junior personnel. Using PMS maintenance cards, ship's technical manuals and EOSS procedures, supervise and guide planned and corrective maintenance. Perform tasks associated with the RCO (underway) and EDO (in port) shipboard watch station/position with limited to no supervision under all conditions of readiness.

n. U72A - DDG-51 IIA Gas Turbine Mechanical Maintenance Technician Operates and performs advanced organizational and/or intermediate maintenance to the component level on DDG-51 FLT IIA gas turbine main propulsion and mechanical plant control systems.

o. 736B - NAMTS Pump Repair Technician performs Navy Afloat Maintenance Training Strategy (NAMTS) organizational and intermediate-level maintenance procedures, inspecting and repairing marine main propulsion and auxiliary pumps and associated equipment in support of Fleet-directed requirements. Demonstrates knowledge of intermediate-level repair procedures, repair and maintenance standards, quality assurance specifications, and proper use of maintenance industrial machinery.

p. U18A - NAMTS Heat Exchanger Repair Technician performs Navy Afloat Maintenance Training Strategy (NAMTS) intermediate-level maintenance procedures in the inspection, repair, and testing of heat exchangers and related components in support of Fleet-directed requirements. Demonstrates knowledge of intermediate-level repair procedures, repair and maintenance standards, quality assurance specifications, and proper use of maintenance industrial machinery.

q. 761A - NAMTS Hydraulics Repair Technician performs Navy Afloat Maintenance Training Strategy (NAMTS) organizational and intermediate-level maintenance procedures on hydraulic systems and components of propulsion machinery, auxiliary equipment, and outside machinery in support of Fleet-directed requirements. Demonstrates knowledge of intermediate-level repair procedures, repair and maintenance standards, quality assurance specifications, and proper use of maintenance industrial machinery.

### **Considerations for advancement from E6 to E7**

#### **1. Sea Assignments (all)**

- LPO at Sea (assigned to Surface Ships), Operational/Joint/FDNF a plus
- Qualified EDO/EOOW/RCO(LCS) while assigned to Surface Ships) a plus
- MGTI a plus
- At least one warfare pin
- DCTT/ETT
- Command Collateral with documented impact
- Qualified 3M 301- 305
- FCPOA involvement
- Sailor 360 involvement



## GSM CAREER PATH (SW)



### 2. Shore Assignments (all)

- 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)
- RMC
- Completed PPME, USMAP
- Community involvement

### **Considerations for advancement from E7 to E8**

#### 1. Sea Assignments (all)

- LCPO at Sea (assigned to Surface Ships), Operational/Joint/FDNF a plus
- Qualified EDO/EOOW (assigned to Surface Ships), Qualified RCO (LCS specific)
- MGTI 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
- Sailor 360 involvement and leading a committee/Season

#### 2. Shore Assignments (all)

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

### **Considerations for advancement from E8 to E9**

#### 1. Sea Assignments (all)

- DLCPO (assigned to Surface Ships), Operational/Joint/FDNF a plus
- MGTI a plus
- At least one warfare pin
- ETT Coordinator, EOOW/EDO/RCO (LCS specific)
- Command Collateral with documented impact
- Completed PPME/JPME/USMAP/SEA
- Active CPO Mess involvement, holding a position
- Sailor 360 involvement and leading a committee/Season

#### 2. Shore Assignments (all)

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