

CHAPTER 39



GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL) (GSE)

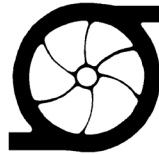
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NAVY ENLISTED OCCUPATIONAL STANDARD
FOR
GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL) (GSE)



SCOPE OF RATING

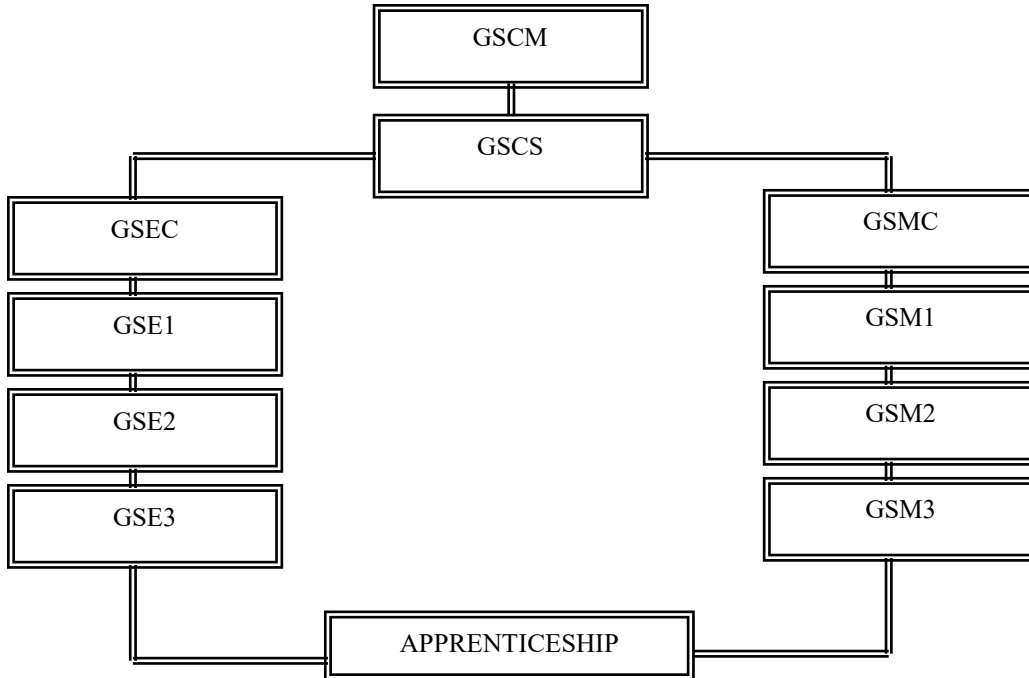
Gas Turbine Systems Technicians (GS) operate, repair, and perform organizational and intermediate maintenance on ship's propulsion Gas Turbine Engines (GTE), Ship's Service Gas Turbine Generators (SSGTG), main propulsion machinery (including gears, shafting, and Controllable Pitch Propellers (CPP)), assigned auxiliary equipment (including fuel and lube oil systems), machinery control systems (including consoles and Programmed Logic Controllers (PLC)), assigned electrical and electronic equipment up to the printed circuit boards, and alarm and warning circuitry.

Gas Turbine Systems Technicians (Electrical) (GSE) operate, repair, troubleshoot, and perform organizational and intermediate maintenance on electrical components of ship's propulsion Gas Turbine Engines (GTE), Ship's Service Gas Turbine Generators (SSGTG), electrical distribution equipment, assigned auxiliary equipment (including Alternating Current (AC) motors, motor operated valves, solenoid operated valves, logic controllers, and automatic bus transfer systems), machinery control systems, assigned electrical and electronic equipment up to the printed circuit boards, and alarm and warning circuitry.

This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068H) as Chapter 39.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

SAFETY

The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title**Gas Turbine Electrical Systems Manager****Job Code****002794****Job Family**
Production**NOC**
TBD**Short Title (30 Characters)**
GAS TURBINE ELEC SYS MANAGER**Short Title (14 Characters)**
GTE SYS MGR**Pay Plan**
Enlisted**Career Field**
GSE**Other Relationships and Rules**
NEC UXXX and 7XXX series and other NECs as assigned**Job Description**

Gas Turbine Electrical Managers provide overall management by reviewing, approving, and managing engine operations and programs aboard Navy ships; manage personnel during the operation and maintenance of main propulsion Gas Turbine Engine (GTE) and reduction gears used for ship propulsion and auxiliary machinery, such as pumps and oil purifiers; provide guidance and technical knowledge in the maintenance of auxiliary machinery outside of the machinery spaces; manage personnel in the alignment process of piping systems for fuel, oil, water, and air; manage the operation of ship Gas Turbine Engines (GTE) used for ship propulsion and service systems and the operation of Ship's Service Gas Turbine Engine (SSGTE) generators used to produce electrical power; manage personnel responsible for cleaning, adjusting, testing, and the performance of other preventative maintenance on ship's main propulsion GTE, SSGTE generators, pumps and associated valves; provide guidance and technical knowledge in the repair and replacement of valves, pumps, heat exchangers, compressors, and hydraulic or pneumatic control devices; and manage and analyze machinery operating records and reports; mentor/train Gas Turbine Electrical Systems Technicians and Gas Turbine Electrical Systems Maintainers.

DoD Relationship

<i>Group Title</i>	<i>DoD Code</i>
Auxiliaries	165200

O*NET Relationship

<i>Occupation Title</i>	<i>SOC Code</i>	<i>Job Family</i>
First-Line Supervisors/Managers of Production and Operating Workers	51-1011.00	Production

Skills

Quality Control Analysis
 Reading Comprehension
 Systems Analysis
 Coordination
 Judgment and Decision Making
 Systems Evaluation
 Writing
 Equipment Maintenance
 Management of Material Resources
 Monitoring

Abilities

Written Comprehension
 Information Ordering
 Written Expression
 Finger Dexterity
 Inductive Reasoning
 Control Precision
 Problem Sensitivity
 Category Flexibility
 Deductive Reasoning
 Far Vision

AUXILIARY EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Evaluate fluid samples
E6	CORE	Inspect main switchboards
E5	CORE	Maintain Integrated Condition Assessment System (ICAS)

GAS TURBINE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Perform Gas Turbine Engine (GTE) intake and exhaust inspections and closeouts

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Coordinate engineering assessment evolutions
E7	CORE	Evaluate engineering equipment data logs
E7	CORE	Evaluate engineering management programs
E7	CORE	Maintain engineering data logs
E7	NON-CORE	Maintain environmental pollution control programs
E7	CORE	Maintain Marine Gas Turbine Service Records (MGTSR)

TECHNICAL ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage Engineering Operational Sequencing System (EOSS) program
E6	CORE	Manage engineering plant operations
E5	NON-CORE	Manage shipboard calibration systems
E7	CORE	Prepare ship-wide full power and economy trials
E6	CORE	Review engineering Quality Assurance (QA) packages
E5	CORE	Validate Engineering Operational Sequencing System (EOSS) manuals
E7	CORE	Validate engineering Quality Assurance (QA) packages

Job Title**Gas Turbine Electrical Systems Maintainer****Job Code****003202****Job Family**

Production

NOC

TBD

Short Title (30 Characters)

GAS TURBINE E SYSTEM MAINT

Short Title (14 Characters)

GTE SYS MAINT

Pay Plan

Enlisted

Career Field

GSE

Other Relationships and Rules

NEC UXXX and 7XXX series and other NECs as assigned

Job Description

Gas Turbine Electrical Systems Maintainers operate the electric plant and main propulsion control equipment; locate circuit failures and replace parts; measure current, voltage, and resistance; test for shorts, grounds, and continuity; test protective circuitry; test, service, and replace batteries; perform preventative and corrective maintenance on digital data equipment; control and monitor circuits; measure insulation resistance; inspect electrical/electronic cables, wiring, and connectors; maintain alarm, indicating, and warning systems; maintain Gas Turbine Engines (GTE) and auxiliary equipment; work with blueprints, schematics, and charts; perform administrative procedures related to Gas Turbine (GT) propulsion system operation and maintenance; perform work area inspections; operate standard test equipment; stop engines and check for proper performance; and replace and adjust operating tolerance of contacts, micro switches, relay switches, pressure switches, and temperature switches; and work under the supervision of Gas Turbine Electrical Systems Technicians while learning the trade or skill.

DoD Relationship**O*NET Relationship**Group Title

Auxiliaries

DoD Code

165200

Occupation Title

Power Plant Operators

SOC Code

51-8013.00

Job Family

Production

Skills*Equipment Maintenance**Reading Comprehension**Systems Analysis**Operation and Control**Quality Control Analysis**Operation Monitoring**Equipment Selection**Systems Evaluation*

UNASSIGNED

UNASSIGNED

Abilities*Deductive Reasoning**Written Comprehension**Information Ordering**Problem Sensitivity**Dynamic Flexibility**Time Sharing**Written Expression**Arm-Hand Steadiness**Inductive Reasoning**Multi-limb Coordination***AUXILIARY EQUIPMENT****Paygrade****Task Type****Task Statements**

E4

CORE

Align compressed air systems

E4

CORE

Align main switchboards

E4

CORE

Align pumps (e.g., seawater, main Lube Oil (LO), Fuel Oil (FO), etc.)

E4

CORE

Align steering control consoles (i.e., aft and bridge)

E4

CORE

Align waste oil systems

E4

CORE

Draw fluid samples

E4

CORE

Perform preventative maintenance bus transfer switches

E4

CORE

Perform preventative maintenance on compressed air systems electrical components

E4

NON-CORE

Perform preventative maintenance on converter and inverter components

E4

CORE

Perform preventative maintenance on electrical controllers

E4

CORE

Perform preventative maintenance on heat stress sensors

E5

CORE

Perform preventative maintenance on main switchboards components

E4

CORE

Perform preventative maintenance on pumps (e.g., seawater, main Lube Oil (LO), Fuel Oil (FO), etc.)

E4

CORE

Perform preventative maintenance waste oil systems electrical components

E4

CORE

Test heat stress sensors

GAS TURBINE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Full Authority Digital Controls (FADC)
E4	CORE	Align Gas Turbine (GT) support systems
E4	CORE	Align Gas Turbine (GT) water wash systems
E4	CORE	Align No-Brake Power Supply (NBPS)
E4	CORE	Calibrate blow-in doors
E4	CORE	Inspect Gas Turbine (GT) modules
E4	CORE	Perform preventative maintenance No-Brake Power Supply (NBPS)
E4	CORE	Perform preventative maintenance on Gas Turbine Engine (GTE) components
E4	CORE	Perform preventative maintenance on Redundant Independent Mechanical Start Systems (RIMSS)

MAIN PROPULSION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Controllable Pitch Propeller (CPP) or Controllable Reversible Pitch (CRP) systems
E4	CORE	Align Fuel Oil (FO) service, fill, and transfer systems
E4	CORE	Align jacking gears
E4	CORE	Align main Lube Oil (LO) service systems
E4	CORE	Align Vent Fog Precipitators (VFP)
E4	CORE	Perform preventative maintenance on Controllable Reversible Pitch (CRP) or Controllable Pitch Propeller (CPP) systems
E4	CORE	Perform preventative maintenance on Data Interface Units (DIU)
E5	NON-CORE	Perform preventative maintenance on hybrid electric drive/support equipment
E4	CORE	Perform preventative maintenance on jacking gears
E4	CORE	Perform preventative maintenance on main Lube Oil (LO) service systems
E5	CORE	Perform preventative maintenance on Main Reduction Gear (MRG)
E5	CORE	Perform preventative maintenance on Vent Fog Precipitators (VFP)

PROPULSION CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Damage Control Consoles (DCC)
E4	CORE	Align Data Acquisition Unit (DAU)
E4	CORE	Align Electric Plant Control Consoles (EPCC)
E4	CORE	Align Electrical Plant Central Processing Unit (EPCPU)
E4	CORE	Align Engineering Officer of the Watch (EOOW) logging units
E4	CORE	Align Fuel Systems Control Consoles (FSCC)
E4	CORE	Align operating stations (i.e. Reduced Size Operator Station (RSOS) and Standard Operator Station Unit (SOSU))
E4	CORE	Align Propulsion and Auxiliary Control Consoles (PACC)
E4	CORE	Align Propulsion Local Control Consoles (PLCC)
E4	CORE	Align Repair Station Consoles (RSC)
E4	CORE	Align Shaft Control Units (SCU)

PROPULSION CONTROL SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Universal Control Consoles (UCC)
E4	CORE	Align Universal Engine Controls (UEC)
E4	CORE	Perform preventative maintenance Damage Control Consoles (DCC)
E4	CORE	Perform preventative maintenance on Data Acquisition Units (DAU)
E4	CORE	Perform preventative maintenance on Electric Plant Control Consoles (EPCC)
E4	CORE	Perform preventative maintenance on Engine Controllers (EC)
E4	CORE	Perform preventative maintenance on Engineering Officer of the Watch (EOOW) logging unit
E4	CORE	Perform preventative maintenance on Fuel Systems Control Consoles (FSCC)
E4	CORE	Perform preventative maintenance on operating stations (i.e., Reduced Size Operator Station (RSOS) and Standard Operator Station Unit (SOSU))
E4	CORE	Perform preventative maintenance on Propulsion and Auxiliary Control Consoles (PACC)
E4	CORE	Perform preventative maintenance on Propulsion Local Control Consoles (PLCC)
E4	CORE	Perform preventative maintenance on Repair Station Consoles (RSC)
E4	CORE	Perform preventative maintenance on Shaft Control Units (SCU)
E4	CORE	Perform preventative maintenance on the Machinery Control Systems (MCS)
E4	CORE	Perform preventative maintenance on Uninterruptable Power Supply (UPS)
E4	CORE	Perform preventative maintenance on Universal Control Consoles (UCC)
E4	CORE	Perform preventative maintenance on Universal Engine Controls (UEC)
E4	CORE	Test Uninterruptable Power Supply (UPS)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Collect engineering data readings
E4	CORE	Log fuel tank levels
E4	CORE	Log meter readings

Job Title**Gas Turbine Electrical Systems Technician****Job Code****003654****Job Family**

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

GAS TURBINE E SYSTEM TEC

Short Title (14 Characters)

GTE SYS TECH

Pay Plan

Enlisted

Career Field

GSE

Other Relationships and Rules

NEC UXXX and 7XXX series and other NECs as assigned

Job Description

Gas Turbine Electrical Systems Technicians operate the electric plant and main propulsion control equipment; locate circuit failures and replace parts; measure current, voltage and resistance; test for shorts, grounds and continuity; test protective circuitry; test, service, and replace batteries; perform preventative and corrective maintenance on digital data equipment and control and monitor circuits; measure insulation resistance; repair electrical/electronic cables, wiring, and connectors; maintain alarm, indicating and warning systems; maintain and repair Gas Turbine Engines (GTE) and auxiliary equipment; work with blueprints, schematics, and charts; perform administrative procedures related to Gas Turbine (GT) propulsion system operation and maintenance; perform work area inspections; operate standard test equipment; stop engines and check for proper performance; and replace and adjust operating tolerance of contacts, micro switches, relay switches, pressure switches, and temperature switches; work independently and mentor Gas Turbine Electrical Systems Maintainers.

DoD RelationshipGroup Title

Auxiliaries

DoD Code

165200

O*NET RelationshipOccupation TitleElectrical and Electronics Repairers,
Powerhouse, Substation, and RelaySOC Code

49-2095.00

Job Family

Installation, Maintenance, and

Skills*Complex Problem Solving**Critical Thinking**Repairing**Reading Comprehension**Quality Control Analysis**Installation**Systems Analysis**Troubleshooting**Equipment Maintenance**Systems Evaluation***Abilities***Deductive Reasoning**Originality**Visualization**Manual Dexterity**Static Strength**Wrist-Finger Speed**Problem Sensitivity**Written Comprehension**Finger Dexterity**Written Expression***AUXILIARY EQUIPMENT****Paygrade****Task Type****Task Statements**

E4

CORE

Adjust alarm set points

E4

CORE

Adjust electrically-operated valves

E5

CORE

Adjust potentiometers

E5

CORE

Calibrate power supplies

E4

CORE

Calibrate Tank Level Indicators (TLI)

E6

CORE

Evaluate fluid samples

E6

CORE

Inspect main switchboards

E5

CORE

Maintain Integrated Condition Assessment System (ICAS)

E5

CORE

Perform preventative maintenance on main switchboards components

E5

CORE

Repair bus transfer switches

E4

CORE

Repair compressed air systems electrical components

E4

CORE

Repair electrical components of solenoid valves

E4

CORE

Repair electrical controllers

E4

CORE

Repair electrically-operated valves

E4

CORE

Repair heat stress sensors

AUXILIARY EQUIPMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Repair main switchboards components
E4	CORE	Repair power supplies
E5	CORE	Repair steering control consoles (i.e., aft and bridge)
E4	CORE	Repair Tank Level Indicators (TLI)
E4	CORE	Repair temperature regulating devices (i.e., heaters and thermostats)
E5	CORE	Repair waste oil systems electrical components
E5	NON-CORE	Replace converter and inverter components
E5	CORE	Replace electrical motors
E4	CORE	Replace heat stress sensors
E4	CORE	Replace power supplies
E4	CORE	Replace pressure/temperature transducers
E4	CORE	Replace switches (e.g., electrical, pressure, temperature, micro, etc.)
E5	CORE	Troubleshoot bus transfer switches
E5	CORE	Troubleshoot compressed air systems electrical components
E6	NON-CORE	Troubleshoot converter and inverter components
E4	CORE	Troubleshoot electrical components of solenoid valves
E5	CORE	Troubleshoot electrical controllers
E5	CORE	Troubleshoot electrical motors
E5	CORE	Troubleshoot electrically-operated valves
E4	CORE	Troubleshoot heat stress sensors
E5	CORE	Troubleshoot Integrated Condition Assessment Systems (ICAS)
E5	CORE	Troubleshoot main switchboards components
E5	CORE	Troubleshoot power supplies
E4	CORE	Troubleshoot pressure/temperature transducers
E4	CORE	Troubleshoot Programmable Logic Controller (PLC)
E5	CORE	Troubleshoot steering control consoles (i.e., aft and bridge)
E4	CORE	Troubleshoot switches (e.g., electrical, pressure, temperature, micro, etc.)
E4	CORE	Troubleshoot Tank Level Indicators (TLI)
E4	CORE	Troubleshoot temperature regulating devices (i.e., heaters and thermostats)
E5	CORE	Troubleshoot waste oil systems electrical components

GAS TURBINE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust No-Brake Power Supply (NBPS)
E4	CORE	Calibrate blow-in doors
E4	CORE	Repair blow-in doors and components
E5	CORE	Repair Full Authority Digital Controls (FADC)
E4	CORE	Repair Gas Turbine (GT) module components
E5	CORE	Repair Gas Turbine (GT) support systems
E4	CORE	Repair Gas Turbine (GT) water wash systems

GAS TURBINE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Repair No-Brake Power Supply (NBPS)
E5	CORE	Replace frequency regulator components
E5	CORE	Replace Gas Turbine Engine (GTE) components
E5	CORE	Replace Redundant Independent Mechanical Start Systems (RIMSS) components
E5	CORE	Replace voltage regulators
E5	CORE	Test Gas Turbine (GT) generators
E5	CORE	Test Gas Turbine Engine (GTE) components
E4	CORE	Test voltage regulators
E4	CORE	Troubleshoot blow-in doors and components
E5	CORE	Troubleshoot frequency regulators
E5	CORE	Troubleshoot Full Authority Digital Controls (FADC)
E6	CORE	Troubleshoot Gas Turbine (GT) generators
E5	CORE	Troubleshoot Gas Turbine (GT) support systems
E4	CORE	Troubleshoot Gas Turbine (GT) water wash systems
E6	CORE	Troubleshoot Gas Turbine Engine (GTE) components
E5	CORE	Troubleshoot No-Brake Power Supply (NBPS)
E5	CORE	Troubleshoot Redundant Independent Mechanical Start Systems (RIMSS)
E5	CORE	Troubleshoot voltage regulators

MAIN PROPULSION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Perform preventative maintenance on Vent Fog Precipitators (VFP)
E5	CORE	Repair Controllable Reversible Pitch (CRP) or Controllable Pitch Propeller (CPP) systems
E5	CORE	Repair Data Interface Unit (DIU)
E5	CORE	Repair Fuel Oil (FO) service, fill, and transfer systems
E5	NON-CORE	Repair hybrid electric drive/support equipment
E5	CORE	Repair main Lube Oil (LO) service systems
E6	CORE	Repair Vent Fog Precipitators (VFP)
E5	CORE	Troubleshoot Controllable Reversible Pitch (CRP) or Controllable Pitch Propeller (CPP) systems
E5	CORE	Troubleshoot Data Interface Unit (DIU)
E5	CORE	Troubleshoot Fuel Oil (FO) service, fill, and transfer systems
E5	NON-CORE	Troubleshoot hybrid electric drive/support equipment
E5	CORE	Troubleshoot jacking gears
E5	CORE	Troubleshoot main Lube Oil (LO) service systems
E5	CORE	Troubleshoot Main Reduction Gear (MRG)
E6	CORE	Troubleshoot Vent Fog Precipitators (VFP)

PROPULSION CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Adjust Fuel Systems Control Consoles (FSCC)
E5	CORE	Adjust Propulsion and Auxiliaries Control Consoles (PACC)
E4	CORE	Repair bell and data logger
E5	CORE	Repair Damage Control Consoles (DCC)
E5	CORE	Repair Data Acquisition Units (DAU)
E5	CORE	Repair Electric Plant Control Consoles (EPCC)
E5	CORE	Repair Electrical Plant Central Processing Units (EPCPU)
E5	CORE	Repair Engine Controllers (EC)
E5	CORE	Repair Fuel Systems Control Consoles (FSCC)
E4	CORE	Repair meters and gauges for control consoles (e.g., switchboards, propulsion control consoles, auxiliary consoles, etc.)
E5	CORE	Repair operating stations (i.e., Reduced Size Operator Station (RSOS) and Standard Operator Station Unit (SOSU))
E5	CORE	Repair Propulsion and Auxiliary Control Consoles (PACC)
E5	CORE	Repair Propulsion Local Control Consoles (PLCC)
E5	CORE	Repair Shaft Control Units (SCU)
E4	CORE	Repair Station Consoles (RSC)
E4	CORE	Repair Uninterruptable Power Supply (UPS)
E5	CORE	Repair Universal Control Consoles (UCC)
E5	CORE	Repair Universal Engine Controls (UEC)
E4	CORE	Replace on Engineering Officer of the Watch (EOOW) logging unit components
E4	CORE	Troubleshoot bell and data logger
E5	CORE	Troubleshoot Damage Control Consoles (DCC)
E5	CORE	Troubleshoot Data Acquisition Units (DAU)
E5	CORE	Troubleshoot Electric Plant Control Consoles (EPCC)
E5	CORE	Troubleshoot Electrical Plant Central Processing Unit (EPCPU)
E5	CORE	Troubleshoot Engine Controllers (EC)
E5	CORE	Troubleshoot Engineering Officer of the Watch (EOOW) logging unit
E5	CORE	Troubleshoot Fuel Systems Control Consoles (FSCC)
E5	CORE	Troubleshoot Machinery Control Systems (MCS)
E4	CORE	Troubleshoot meters and gauges for control consoles (e.g., switchboards, propulsion control consoles, auxiliary consoles, etc.)
E5	CORE	Troubleshoot operating stations (i.e. Reduced Size Operator Station (RSOS) and Standard Operator Station Unit (SOSU))
E5	CORE	Troubleshoot Propulsion and Auxiliary Control Consoles (PACC)
E5	CORE	Troubleshoot Propulsion Local Control Consoles (PLCC)
E4	CORE	Troubleshoot Repair Station Consoles (RSC)

PROPULSION CONTROL SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Troubleshoot Shaft Control Units (SCU)
E4	CORE	Troubleshoot Uninterruptable Power Supply (UPS)
E5	CORE	Troubleshoot Universal Control Consoles (UCC)
E5	CORE	Troubleshoot Universal Engine Controls (UEC)

TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Prepare engineering Quality Assurance (QA) forms
E5	CORE	Prepare engineering Quality Assurance (QA) packages