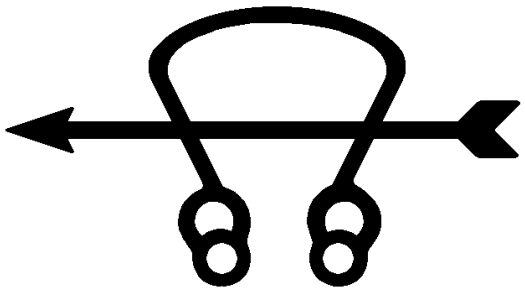
CHAPTER 73



SONAR TECHNICIAN (SURFACE)
(STG)

NAVPERS 18068F-73H
Change 97

Updated: January 2024

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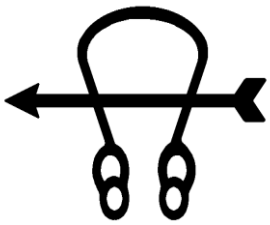
NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

SONAR TECHNICIAN (SURFACE) (STG)



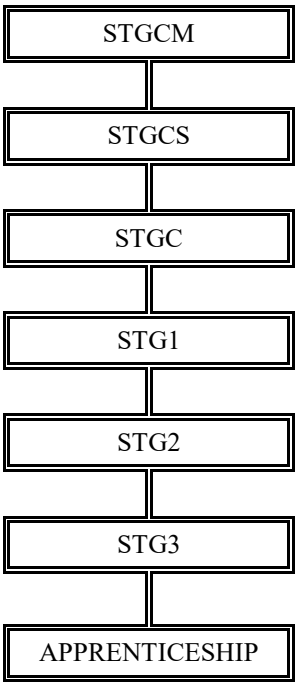
SCOPE OF RATING

Sonar Technicians (Surface) (STG) operate surface sonar and other oceanographic systems; search, track, analyze, and interpret acoustic and oceanographic data for surface and subsurface contacts; operate surface ship underwater fire control systems (with associated equipment) for the solution of Anti-Submarine Warfare (ASW) problems; support Surface Warfare (SUW); conduct ordnance evolutions; and perform organizational and intermediate maintenance on surface sonar and auxiliary equipment.

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 18068F) in Chapter 73.

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 **Job Code**

Anti-submarine Warfare Manager 003746

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Management	TBD	ASW MANAGER	ASW MANAGER

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	STG	VXXX and 7XXX series and other NECs as assigned

Job Description

Anti-Submarine Warfare Managers manage and supervise the employment of sonar equipment; evaluate, disseminate, and make tactical Anti-Submarine Warfare (ASW) decisions; assist with Surface Warfare (SUW) decisions; coordinate communications; manage equipment maintenance; conduct ordnance oversight; manage training programs; and monitor watch team.

DoD Relationship

Group Title	*DoD Code*
Sonar, General	113000

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Computer and Information System Managers	11-3021.00	Management

Skills	Abilities
Judgment and Decision Making	*Deductive Reasoning*
Quality Control Analysis	*Written Comprehension*
Management of Material Resources	*Problem Sensitivity*
Monitoring	*Oral Expression*
Critical Thinking	*Inductive Reasoning*
Complex Problem Solving	*Information Ordering*
Speaking	*Written Expression*
Coordination	*Control Precision*
Operation and Control	*Mathematical Reasoning*
Systems Analysis	*Flexibility of Closure*

AUXILIARY AND SUPPORT SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Configure Expendable Mobile Anti-Submarine Training Targets (EMATT)
E4	CORE	Configure sonobuoys
E4	CORE	Configure underwater communication systems
E7	CORE	Manage sonar dome pressurization system operations
E5	CORE	Supervise sonar dome pressurization system operations
E5	CORE	Supervise torpedo countermeasure stream and recovery operations
E4	CORE	Test shipboard communication systems
E4	CORE	Test valves
E6	CORE	Verify Expendable Mobile Anti-Submarine Training Target (EMATT) configurations
E6	CORE	Verify sonobuoy configurations

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E6	CORE	Administer Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E4	CORE	Analyze blueprints and ship's drawings
E4	CORE	Analyze schematics (e.g., mechanical drawings, electronic schematics, piping and valve drawings, etc.)
E7	CORE	Approve equipment installations, testing, and alterations

EQUIPMENT ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Conduct sound isolation surveys
E7	CORE	Coordinate equipment certifications and recertifications
E6	CORE	Coordinate equipment installations, testing, and alterations
E7	CORE	Coordinate external agency support for major sonar equipment and evolutions
E7	CORE	Coordinate network software and firmware operations
E7	CORE	Coordinate ship's sound silencing programs
E4	CORE	Correct sound isolation deficiencies
E7	CORE	Draft Casualty Reports (CASREP)
E5	CORE	Draft procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E4	CORE	Inventory controlled equipment (e.g., Maintenance Assistance Modules (MAM))
E4	CORE	Inventory network software and firmware
E4	CORE	Maintain underwater system password accounts
E6	CORE	Manage Combat Systems Operational Sequencing System (CSOSS) operations
E6	CORE	Manage controlled equipment (e.g., Maintenance Assistance Modules (MAM))
E7	CORE	Manage divisional equipment and system configurations
E7	CORE	Manage divisional maintenance operations
E7	CORE	Manage equipment Casualty Reporting (CASREP) process
E6	CORE	Manage equipment certifications and recertifications
E6	CORE	Manage procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E6	CORE	Manage underwater system password accounts
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E5	CORE	Supervise controlled equipment inventories (e.g., Maintenance Assistance Modules (MAM))
E6	CORE	Supervise divisional equipment and system configurations
E6	CORE	Supervise divisional maintenance operations
E4	CORE	Supervise equipment installations, testing, and alterations
E6	CORE	Supervise sound silencing procedures
E5	CORE	Supervise work center equipment and system configurations
E5	CORE	Supervise work center maintenance operations
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)
E4	CORE	Update Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E7	CORE	Validate Combat Systems Operational Sequencing System (CSOSS)
E7	CORE	Verify equipment installations, testing, and alterations
E7	CORE	Verify procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)

ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS

Paygrade	Task Type	Task Statements
E7	CORE	Coordinate ordnance handling evolutions
E7	CORE	Coordinate ordnance stowage
E6	CORE	Inspect ordnance containers
E6	CORE	Manage ordnance handling evolutions
E6	CORE	Manage ordnance inspections
E7	CORE	Manage ordnance spill (e.g., Otto Fuel II) containment and decontamination procedures
E6	CORE	Manage ordnance stowage
E7	CORE	Manage torpedo pre-launch procedures (i.e., weapons postures)
E7	CORE	Monitor ordnance handling evolutions (i.e., safety observer)
E6	NON-CORE	Supervise Ordnance Handling Equipment (OHE) testing
E5	CORE	Supervise ordnance handling evolutions
E5	CORE	Supervise ordnance inspections
E6	CORE	Supervise ordnance spill (e.g., Otto Fuel II) containment and decontamination procedures
E5	CORE	Supervise ordnance stowage
E6	CORE	Supervise torpedo pre-launch procedures (i.e., weapons postures)

SONAR SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Adjust towed cable scopes
E4	CORE	Configure Tactical Display Systems (TDS)
E4	CORE	Manage system databases
E6	CORE	Monitor towed array stream and recovery operations (i.e., safety observer)
E4	CORE	Perform preventive maintenance on Tactical Display Systems (TDS)
E4	CORE	Perform towed array stream and recovery operations
E5	CORE	Supervise towed array stream and recovery operations
E4	CORE	Test Tactical Display Systems (TDS)
E6	CORE	Verify sonar System Employment Manuals (SEM)

UNDERSEA WARFARE (USW) PLANNING AND ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Analyze Expendable Bathythermograph (XBT) data
E4	CORE	Analyze projected and historical tactical oceanographic data
E5	CORE	Brief tactical, operational, and situational status reports
E4	CORE	Calculate best depths for submarines to avoid detection
E4	CORE	Calculate bottom loss predictions
E4	CORE	Collect acoustic data media recordings
E6	CORE	Conduct acoustic and non-acoustic training
E6	CORE	Conduct sensor operator proficiency training
E4	CORE	Configure environmental range prediction systems

UNDERSEA WARFARE (USW) PLANNING AND ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Configure sonar systems for stand-alone training operations
E5	CORE	Configure torpedo countermeasure systems and equipment
E7	CORE	Coordinate Anti-Submarine Warfare (ASW) missions
E7	CORE	Coordinate multi-force prosecutions (i.e., air, surface, and subsurface)
E7	CORE	Coordinate personnel qualification and certification programs
E7	CORE	Coordinate Surface Action Unit (SAU) procedures
E7	CORE	Coordinate towed systems handling operations
E7	CORE	Coordinate training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E7	CORE	Develop Anti-Submarine Warfare (ASW) Pre-Planned Responses (PPR)
E5	CORE	Develop Anti-Submarine Warfare (ASW) search, attack, and evasion plans
E7	CORE	Develop Anti-Submarine Warfare (ASW) trip wires
E5	CORE	Develop Prevention of Mutual Interference (PMI) plans
E5	CORE	Develop sonar Tactical Decision Aid (TDA) plans
E7	CORE	Develop Surface Warfare (SUW) Pre-Planned Responses (PPR)
E7	CORE	Develop Surface Warfare (SUW) trip wires
E5	CORE	Develop threat briefs
E5	CORE	Develop training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E5	CORE	Develop Water Space Management (WSM) plans
E6	CORE	Direct execution of operational messages and Commander's intentions
E6	CORE	Draft operational messages
E6	CORE	Evaluate Anti-Submarine Warfare (ASW) search, attack, and evasion plans
E6	CORE	Evaluate Prevention of Mutual Interference (PMI) plans
E6	CORE	Evaluate sonar Tactical Decision Aid (TDA) plans
E6	CORE	Evaluate training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E6	CORE	Evaluate Water Space Management (WSM) plans
E4	CORE	Handle Naval messages
E4	CORE	Interpret requirements from technical briefs, notices, and bulletins
E7	CORE	Manage Anti-Submarine Warfare (ASW) safety programs and instructions
E7	CORE	Manage coordinated Anti-Submarine Warfare (ASW) operations
E6	CORE	Manage personnel qualification and certification programs
E6	CORE	Manage shipboard Anti-Submarine Warfare (ASW) operations
E7	CORE	Manage sonar administration
E5	CORE	Mitigate biological and environmental effects on acoustic data
E4	CORE	Perform Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E5	CORE	Prepare acoustic data media for shipment
E7	CORE	Review drafted operational messages for accuracy

UNDERSEA WARFARE (USW) PLANNING AND ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Supervise personnel qualification and certification programs
E5	CORE	Supervise shipboard Anti-Submarine Warfare (ASW) operations
E5	CORE	Train technicians in casualty control procedures
E7	CORE	Validate Anti-Submarine Warfare (ASW) doctrine statements
E7	CORE	Validate Anti-Submarine Warfare (ASW) search, attack, and evasion plans
E7	CORE	Validate Prevention of Mutual Interference (PMI) plans
E7	CORE	Validate sonar Tactical Decision Aid (TDA) plans
E7	CORE	Validate Water Space Management (WSM) plans
E7	CORE	Verify compliance with operational messages and Commander's intentions

WATCH TEAM OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Analyze active acoustic data
E4	CORE	Analyze in situ tactical oceanographic data
E4	CORE	Analyze passive acoustic data
E4	CORE	Analyze subsurface contacts
E4	CORE	Analyze surface contacts
E5	CORE	Assign subsurface contact priorities
E7	CORE	Assign subsurface engagement Battle Damage Assessments (BDA)
E5	CORE	Assign surface contact priorities
E4	CORE	Calculate real-time sound propagation changes
E5	CORE	Calculate subsurface contact ranges
E5	CORE	Calculate surface contact ranges
E4	CORE	Calculate turn counts and Shaft Revolutions Per Minute (SRPM)
E4	CORE	Collect Acoustic Intelligence (ACINT) data
E4	CORE	Compute subsurface contact course and speed
E4	CORE	Compute surface contact course and speed
E4	CORE	Conduct active sonar searches
E4	CORE	Conduct passive sonar searches
E5	CORE	Conduct Target Motion Analyses (TMA)
E4	CORE	Configure active sonar systems
E5	CORE	Configure Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Configure passive sonar systems
E5	CORE	Correlate Acoustic Intelligence (ACINT) data
E5	CORE	Correlate Anti-Submarine Warfare (ASW) targeting data
E5	CORE	Correlate multi-sensor data
E5	CORE	Correlate Surface Warfare (SUW) targeting data
E4	CORE	Deploy Expendable Mobile Anti-Submarine Training Targets (EMATT)
E5	CORE	Engage subsurface targets with anti-submarine weapons
E4	CORE	Evaluate subsurface contact acoustic information

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Evaluate surface contact acoustic information
E6	CORE	Evaluate Target Motion Analysis (TMA) solutions
E4	CORE	Identify subsurface contact Closest Point of Approach (CPA)
E4	CORE	Identify subsurface contact geometries
E4	CORE	Identify surface contact Closest Point of Approach (CPA)
E4	CORE	Identify surface contact geometries
E5	CORE	Implement Anti-Submarine Warfare (ASW) doctrine statements
E5	CORE	Input Anti-Submarine Warfare (ASW) fire control parameters
E4	CORE	Input sonar Tactical Decision Aid (TDA) data
E4	CORE	Log amplifying subsurface contact data
E4	CORE	Log amplifying surface contact data
E4	CORE	Make operational and situational reports
E6	CORE	Manage in situ tactical oceanographic data analyses
E7	CORE	Manage Integrated Undersea Surveillance System (IUSS) operations
E4	CORE	Perform external communications (i.e., ship-to-ship, ship-to-shore, ship-to-air, and ship-to-sub)
E5	CORE	Recommend actions to reduce own ship's detectability
E5	CORE	Recommend evasive steering actions
E4	CORE	Recommend own ship's course and speed changes
E7	CORE	Recommend subsurface contact priorities
E7	CORE	Recommend surface contact priorities
E6	CORE	Recommend Surface Warfare (SUW) search plans
E5	CORE	Recommend torpedo evasion actions
E5	CORE	Recommend torpedo evasion tactics
E5	CORE	Report assignment and engagement status of own ship's weapons systems
E4	CORE	Report break point and ambient limited speeds
E4	CORE	Report evasion devices and acoustic jamming
E4	CORE	Report initial subsurface contact classifications
E4	CORE	Report initial surface contact classifications
E4	CORE	Report sources of self-noise
E4	CORE	Report subsurface contacts
E4	CORE	Report subsurface engagement Battle Damage Assessments (BDA)
E4	CORE	Report surface contacts
E4	CORE	Report surface engagement Battle Damage Assessments (BDA)
E4	CORE	Resolve towed array ambiguities
E5	CORE	Supervise configuration of sonar systems for Emission Control (EMCON) conditions
E6	CORE	Supervise Integrated Undersea Surveillance System (IUSS) operations
E5	CORE	Supervise small object avoidance operations

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Supervise sonar control during casualty conditions
E5	CORE	Supervise sonar control during special evolutions
E5	CORE	Supervise sonar watch team performance
E6	CORE	Transition sonar watch teams between conditions of readiness
E4	CORE	Update subsurface contact information
E4	CORE	Update surface contact information
E7	CORE	Validate subsurface contact classifications
E7	CORE	Validate surface contact classifications
E7	CORE	Validate Target Motion Analysis (TMA) solutions
E6	CORE	Verify Emission Control (EMCON) status
E5	CORE	Verify environmental range prediction system configurations
E7	CORE	Verify weapons presets

Job Title **Job Code**

Anti-submarine Warfare Operator 003747

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Military Specific	TBD	ASW OPERATOR	ASW OPERATOR

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	STG	VXXX and 7XXX series and other NECs as assigned

Job Description

Anti-Submarine Warfare Operators operate and maintain sonar systems, underwater fire control systems, and support equipment on surface ships and fixed shore stations; conduct undersea surveillance/Anti-Submarine Warfare (ASW) and aid in safe navigation; use shipboard equipment and fixed shore equipment to search, track, analyze, and interpret acoustic and oceanographic data for surface and subsurface contacts; and conduct ordnance handling

DoD Relationship

Group Title	*DoD Code*
Sonar, General	113000

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Command and Control Center Specialists	55-3015.00	Military Specific

Skills	Abilities
Operation and Control	*Deductive Reasoning*
Quality Control Analysis	*Written Comprehension*
Complex Problem Solving	*Control Precision*
Judgment and Decision Making	*Manual Dexterity*
Systems Analysis	*Oral Expression*
Reading Comprehension	*Problem Sensitivity*
Operation Monitoring	*Inductive Reasoning*
Speaking	*Information Ordering*
Critical Thinking	*Mathematical Reasoning*
Management of Material Resources	*Written Expression*

AUXILIARY AND SUPPORT SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Configure auxiliary air and cooling water systems
E4	CORE	Configure depth sounding systems
E4	CORE	Configure Expendable Mobile Anti-Submarine Training Targets (EMATT)
E4	CORE	Configure General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Configure sonar dome pressurization systems
E4	CORE	Configure sonobuoys
E4	CORE	Configure underwater communication systems
E4	CORE	Perform corrosion prevention and control procedures on Anti-Submarine Warfare (ASW) systems
E4	CORE	Perform preventive maintenance on auxiliary air and cooling water systems
E4	CORE	Perform preventive maintenance on depth sounding systems
E4	CORE	Perform preventive maintenance on Expendable Bathythermograph (XBT) equipment
E4	CORE	Perform preventive maintenance on interconnecting cables and connectors
E4	CORE	Perform preventive maintenance on sonar dome pressurization systems
E4	CORE	Perform preventive maintenance on torpedo countermeasure systems and equipment
E4	CORE	Perform preventive maintenance on underwater communication systems
E4	CORE	Perform preventive maintenance on valves

AUXILIARY AND SUPPORT SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Perform torpedo countermeasure stream and recovery operations
E4	CORE	Repair auxiliary air and cooling water systems
E4	CORE	Repair depth sounding systems
E4	CORE	Repair Expendable Bathythermograph (XBT) equipment
E4	CORE	Repair sonar dome pressurization systems
E4	CORE	Repair torpedo countermeasure systems and equipment
E4	CORE	Repair underwater communication systems
E4	CORE	Replace valves
E5	CORE	Supervise torpedo countermeasure stream and recovery operations
E4	CORE	Test Alternating Current (AC) circuits
E4	CORE	Test auxiliary air and cooling water systems
E4	CORE	Test depth sounding systems
E4	CORE	Test digital circuits
E4	CORE	Test Direct Current (DC) circuits
E4	CORE	Test Expendable Bathythermograph (XBT) equipment
E4	CORE	Test shipboard communication systems
E4	CORE	Test sonar dome pressurization systems
E4	CORE	Test torpedo countermeasure systems and equipment
E4	CORE	Test underwater communication systems
E4	CORE	Test valves
E4	CORE	Troubleshoot auxiliary air and cooling water systems
E4	CORE	Troubleshoot depth sounding systems
E4	CORE	Troubleshoot Expendable Bathythermograph (XBT) equipment
E4	CORE	Troubleshoot sonar dome pressurization systems
E4	CORE	Troubleshoot torpedo countermeasure systems and equipment
E4	CORE	Troubleshoot underwater communication systems
E4	CORE	Troubleshoot valves

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Analyze blueprints and ship's drawings
E4	CORE	Analyze schematics (e.g., mechanical drawings, electronic schematics, piping and valve drawings, etc.)
E4	CORE	Conduct sound isolation surveys
E4	CORE	Correct sound isolation deficiencies
E5	CORE	Draft procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E4	CORE	Inspect work areas, tools, and equipment
E4	CORE	Inventory controlled equipment (e.g., Maintenance Assistance Modules (MAM))

EQUIPMENT ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E6	CORE	Manage procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E5	CORE	Supervise controlled equipment inventories (e.g., Maintenance Assistance Modules (MAM))
E4	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)
E4	CORE	Update Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E7	CORE	Verify procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)

ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Inspect ordnance
E4	NON-CORE	Inspect ordnance magazines and lockers
E4	NON-CORE	Install torpedo flight accessories
E4	CORE	Inventory ordnance
E7	CORE	Manage torpedo pre-launch procedures (i.e., weapons postures)
E4	NON-CORE	Pack ordnance
E4	CORE	Perform Ordnance Handling Equipment (OHE) operations
E4	CORE	Perform ordnance spill (e.g., Otto Fuel II) containment and decontamination procedures
E4	CORE	Perform torpedo pre-launch procedures (i.e., weapons postures)
E4	CORE	Stow ordnance
E6	CORE	Supervise torpedo pre-launch procedures (i.e., weapons postures)
E4	NON-CORE	Test Ordnance Handling Equipment (OHE)
E4	NON-CORE	Transfer ordnance
E4	NON-CORE	Transport ordnance
E4	NON-CORE	Unpack ordnance

SONAR SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Adjust towed cable scopes
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure network interfaces (e.g., Aegis Weapon Systems (AWS), Embedded Training Systems (ETS), etc.)
E4	CORE	Configure network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Configure operating systems (e.g., Linux, Microsoft, etc.)
E4	CORE	Configure Tactical Display Systems (TDS)

SONAR SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Configure Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Control Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) effects on electronic systems
E4	CORE	Document equipment and system statuses
E4	CORE	Manage system databases
E4	CORE	Monitor equipment and system statuses
E4	CORE	Perform preventive maintenance on active sonar systems
E4	CORE	Perform preventive maintenance on Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Perform preventive maintenance on computer and peripheral systems
E4	CORE	Perform preventive maintenance on network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Perform preventive maintenance on passive sonar systems
E4	CORE	Perform preventive maintenance on Tactical Display Systems (TDS)
E4	CORE	Perform preventive maintenance on towed array and handling equipment
E4	CORE	Perform preventive maintenance on Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Perform torpedo tube interface tests
E4	CORE	Perform towed array stream and recovery operations
E4	CORE	Prepare towed array and handling equipment for deployment and recovery operations
E4	CORE	Repair Undersea Warfare Decision Support System (USW-DSS)
E5	CORE	Supervise towed array stream and recovery operations
E4	CORE	Test active sonar systems
E4	CORE	Test Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Test computer and peripheral systems
E4	CORE	Test network interfaces (e.g., Aegis Weapon Systems (AWS), Embedded Training Systems (ETS), etc.)
E4	CORE	Test network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Test operating systems (e.g., Linux, Microsoft, etc.)
E4	CORE	Test passive sonar systems
E4	CORE	Test Tactical Display Systems (TDS)
E4	CORE	Test towed array and handling equipment
E4	CORE	Test Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Troubleshoot active sonar systems
E4	CORE	Troubleshoot Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Troubleshoot computer and peripheral systems
E4	CORE	Troubleshoot passive sonar systems
E4	CORE	Troubleshoot towed array and handling equipment
E4	CORE	Troubleshoot Undersea Warfare Decision Support System (USW-DSS)

UNDERSEA WARFARE (USW) PLANNING AND ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Analyze Expendable Bathythermograph (XBT) data
E4	CORE	Analyze projected and historical tactical oceanographic data
E4	CORE	Calculate best depths for submarines to avoid detection
E4	CORE	Calculate bottom loss predictions
E4	CORE	Calculate environmental range predictions
E4	CORE	Collect acoustic data media recordings
E6	CORE	Conduct acoustic and non-acoustic training
E6	CORE	Conduct sensor operator proficiency training
E4	CORE	Conduct training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E4	CORE	Configure environmental range prediction systems
E4	CORE	Configure sonar systems for stand-alone training operations
E5	CORE	Configure torpedo countermeasure systems and equipment
E4	CORE	Deploy sonobuoys
E5	CORE	Develop threat briefs
E4	CORE	Handle Naval messages
E4	CORE	Interpret requirements from technical briefs, notices, and bulletins
E5	CORE	Mitigate biological and environmental effects on acoustic data
E4	CORE	Perform Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E5	CORE	Prepare acoustic data media for shipment

WATCH TEAM OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Analyze active acoustic data
E4	CORE	Analyze in situ tactical oceanographic data
E4	CORE	Analyze passive acoustic data
E4	CORE	Analyze subsurface contacts
E4	CORE	Analyze surface contacts
E5	CORE	Assign subsurface contact priorities
E5	CORE	Assign surface contact priorities
E4	CORE	Assign symbology to subsurface contacts
E4	CORE	Assign symbology to surface contacts
E4	CORE	Calculate real-time sound propagation changes
E5	CORE	Calculate subsurface contact ranges
E5	CORE	Calculate surface contact ranges
E4	CORE	Calculate turn counts and Shaft Revolutions Per Minute (SRPM)
E4	CORE	Collect Acoustic Intelligence (ACINT) data
E4	CORE	Compute subsurface contact course and speed
E4	CORE	Compute surface contact course and speed

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Conduct active sonar searches
E4	CORE	Conduct Integrated Undersea Surveillance System (IUSS) operations
E4	CORE	Conduct passive sonar searches
E4	CORE	Conduct small object avoidance operations
E5	CORE	Conduct Target Motion Analyses (TMA)
E4	CORE	Configure active sonar systems
E5	CORE	Configure Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Configure passive sonar systems
E5	CORE	Correlate Acoustic Intelligence (ACINT) data
E5	CORE	Correlate multi-sensor data
E4	NON-CORE	Deploy emergency signal devices
E4	CORE	Deploy Expendable Mobile Anti-Submarine Training Targets (EMATT)
E4	CORE	Document underwater communications
E5	CORE	Engage subsurface targets with anti-submarine weapons
E4	CORE	Evaluate subsurface contact acoustic information
E4	CORE	Evaluate surface contact acoustic information
E4	CORE	Identify subsurface contact Closest Point of Approach (CPA)
E4	CORE	Identify subsurface contact geometries
E4	CORE	Identify surface contact Closest Point of Approach (CPA)
E4	CORE	Identify surface contact geometries
E5	CORE	Implement Anti-Submarine Warfare (ASW) doctrine statements
E5	CORE	Input Anti-Submarine Warfare (ASW) fire control parameters
E4	CORE	Input sonar Tactical Decision Aid (TDA) data
E4	CORE	Launch Expendable Bathythermographs (XBT)
E4	CORE	Log amplifying subsurface contact data
E4	CORE	Log amplifying surface contact data
E4	CORE	Make operational and situational reports
E4	CORE	Perform external communications (i.e., ship-to-ship, ship-to-shore, ship-to-air, and ship-to-sub)
E4	CORE	Plot Water Space Management (WSM) areas
E5	CORE	Recommend actions to reduce own ship's detectability
E5	CORE	Recommend evasive steering actions
E4	CORE	Recommend own ship's course and speed changes
E5	CORE	Recommend torpedo evasion actions
E5	CORE	Recommend torpedo evasion tactics
E5	CORE	Report assignment and engagement status of own ship's weapons systems
E4	CORE	Report biological effects on acoustic data
E4	CORE	Report bottom depths
E4	CORE	Report break point and ambient limited speeds

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Report environmental effects on acoustic data
E4	CORE	Report evasion devices and acoustic jamming
E4	CORE	Report initial subsurface contact classifications
E4	CORE	Report initial surface contact classifications
E4	CORE	Report sources of self-noise
E4	CORE	Report subsurface contact bearings
E4	CORE	Report subsurface contacts
E4	CORE	Report subsurface engagement Battle Damage Assessments (BDA)
E4	CORE	Report surface contact bearings
E4	CORE	Report surface contacts
E4	CORE	Report surface engagement Battle Damage Assessments (BDA)
E4	CORE	Resolve towed array ambiguities
E4	CORE	Set Emission Control (EMCON) conditions
E6	CORE	Supervise Integrated Undersea Surveillance System (IUSS) operations
E4	CORE	Track subsurface contacts
E4	CORE	Track surface contacts
E6	CORE	Transition sonar watch teams between conditions of readiness
E4	CORE	Update status boards
E4	CORE	Update subsurface contact information
E4	CORE	Update surface contact information

Job Title **Job Code**

Anti-submarine Warfare Technician 003748

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Installation, Maintenance, and Repair	TBD	ASW TECHNICIAN	ASW TECHNICIAN

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	STG	VXXX and 7XXX series and other NECs as assigned

Job Description

Anti-Submarine Warfare Technicians maintain, troubleshoot, and repair sonar systems, underwater fire control systems, Computer Information Systems Company (Cisco) switches, networks, blade servers, and auxiliary equipment on surface ships and fixed shore stations; conduct maintenance on hydraulic systems, valves, and pneumatic systems; use shipboard equipment and fixed shore equipment to search, track, analyze, and interpret acoustic and oceanographic data for surface and subsurface contacts; and conduct ordnance handling.

DoD Relationship

Group Title	*DoD Code*
Sonar, General	113000

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Electrical and Electronics Repairers, Commercial and Industrial Equipment	49-2094.00	Installation, Maintenance, and Repair

Skills	Abilities
Quality Control Analysis	*Deductive Reasoning*
Systems Evaluation	*Written Comprehension*
Operation Monitoring	*Manual Dexterity*
Reading Comprehension	*Control Precision*
Repairing	*Problem Sensitivity*
Troubleshooting	*Inductive Reasoning*
Complex Problem Solving	*Oral Expression*
Operation and Control	*Written Expression*
Systems Analysis	*Information Ordering*
Equipment Maintenance	*Speech Clarity*

AUXILIARY AND SUPPORT SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Configure auxiliary air and cooling water systems
E4	CORE	Configure depth sounding systems
E4	CORE	Configure Expendable Mobile Anti-Submarine Training Targets (EMATT)
E4	CORE	Configure General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Configure sonar dome pressurization systems
E4	CORE	Configure sonobuoys
E4	CORE	Configure Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Configure underwater communication systems
E4	CORE	Perform corrosion prevention and control procedures on Anti-Submarine Warfare (ASW) systems
E4	CORE	Perform preventive maintenance on auxiliary air and cooling water systems
E4	CORE	Perform preventive maintenance on depth sounding systems
E4	CORE	Perform preventive maintenance on environmental range prediction systems
E4	CORE	Perform preventive maintenance on Expendable Bathythermograph (XBT) equipment
E4	CORE	Perform preventive maintenance on fiber optic cables and connectors
E4	CORE	Perform preventive maintenance on interconnecting cables and connectors

AUXILIARY AND SUPPORT SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Perform preventive maintenance on sonar dome pressurization systems
E4	CORE	Perform preventive maintenance on torpedo countermeasure systems and equipment
E4	CORE	Perform preventive maintenance on underwater communication systems
E4	CORE	Perform preventive maintenance on valves
E4	CORE	Perform torpedo countermeasure stream and recovery operations
E4	CORE	Repair Alternating Current (AC) circuits
E4	CORE	Repair auxiliary air and cooling water systems
E4	CORE	Repair depth sounding systems
E4	CORE	Repair Direct Current (DC) circuits
E4	CORE	Repair environmental range prediction systems
E4	CORE	Repair Expendable Bathythermograph (XBT) equipment
E4	NON-CORE	Repair fiber optic cables and connectors
E4	CORE	Repair interconnecting cables and connectors
E4	CORE	Repair sonar dome pressurization systems
E4	CORE	Repair torpedo countermeasure systems and equipment
E4	CORE	Repair underwater communication systems
E4	CORE	Replace digital circuits
E4	CORE	Replace valves
E5	CORE	Supervise torpedo countermeasure stream and recovery operations
E4	CORE	Test Alternating Current (AC) circuits
E4	CORE	Test auxiliary air and cooling water systems
E4	CORE	Test depth sounding systems
E4	CORE	Test digital circuits
E4	CORE	Test Direct Current (DC) circuits
E4	CORE	Test environmental range prediction systems
E4	CORE	Test Expendable Bathythermograph (XBT) equipment
E4	NON-CORE	Test fiber optic cables and connectors
E4	CORE	Test interconnecting cables and connectors
E4	CORE	Test shipboard communication systems
E4	CORE	Test sonar dome pressurization systems
E4	CORE	Test torpedo countermeasure systems and equipment
E4	CORE	Test underwater communication systems
E4	CORE	Test valves
E4	CORE	Troubleshoot Alternating Current (AC) circuits
E4	CORE	Troubleshoot auxiliary air and cooling water systems
E4	CORE	Troubleshoot depth sounding systems
E4	CORE	Troubleshoot digital circuits
E4	CORE	Troubleshoot Direct Current (DC) circuits

AUXILIARY AND SUPPORT SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Troubleshoot environmental range prediction systems
E4	CORE	Troubleshoot Expendable Bathythermograph (XBT) equipment
E4	NON-CORE	Troubleshoot fiber optic cables and connectors
E4	CORE	Troubleshoot interconnecting cables and connectors
E4	CORE	Troubleshoot sonar dome pressurization systems
E4	CORE	Troubleshoot torpedo countermeasure systems and equipment
E4	CORE	Troubleshoot underwater communication systems
E4	CORE	Troubleshoot valves

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Analyze blueprints and ship's drawings
E4	CORE	Analyze schematics (e.g., mechanical drawings, electronic schematics, piping and valve drawings, etc.)
E4	CORE	Conduct sound isolation surveys
E6	CORE	Coordinate equipment installations, testing, and alterations
E7	CORE	Coordinate network software and firmware operations
E4	CORE	Correct sound isolation deficiencies
E5	CORE	Draft procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E4	CORE	Inspect work areas, tools, and equipment
E4	CORE	Inventory controlled equipment (e.g., Maintenance Assistance Modules (MAM))
E4	CORE	Inventory network software and firmware
E4	CORE	Maintain underwater system password accounts
E6	CORE	Manage Combat Systems Operational Sequencing System (CSOSS) operations
E6	CORE	Manage procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E6	CORE	Manage underwater system password accounts
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E5	CORE	Supervise controlled equipment inventories (e.g., Maintenance Assistance Modules (MAM))
E4	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)
E4	CORE	Update Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E7	CORE	Validate Combat Systems Operational Sequencing System (CSOSS)
E7	CORE	Verify procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)

SONAR SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Adjust towed cable scopes
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure network interfaces (e.g., Aegis Weapon Systems (AWS), Embedded Training Systems (ETS), etc.)
E4	CORE	Configure network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Configure operating systems (e.g., Linux, Microsoft, etc.)
E4	CORE	Configure Tactical Display Systems (TDS)
E4	CORE	Configure Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Control Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) effects on electronic systems
E4	CORE	Document equipment and system statuses
E4	CORE	Manage system databases
E4	CORE	Monitor equipment and system statuses
E4	CORE	Perform preventive maintenance on active sonar systems
E4	CORE	Perform preventive maintenance on Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Perform preventive maintenance on computer and peripheral systems
E4	CORE	Perform preventive maintenance on network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Perform preventive maintenance on passive sonar systems
E4	CORE	Perform preventive maintenance on Tactical Display Systems (TDS)
E4	CORE	Perform preventive maintenance on towed array and handling equipment
E4	CORE	Perform preventive maintenance on Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Perform towed array stream and recovery operations
E4	CORE	Prepare towed array and handling equipment for deployment and recovery operations
E4	CORE	Repair active sonar systems
E4	CORE	Repair Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Repair computer and peripheral systems
E4	CORE	Repair network interfaces (e.g., Aegis Weapon Systems (AWS), Embedded Training Systems (ETS), etc.)
E4	CORE	Repair network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Repair operating systems (e.g., Linux, Microsoft, etc.)
E4	CORE	Repair passive sonar systems
E4	CORE	Repair Tactical Display Systems (TDS)
E4	CORE	Repair towed array and handling equipment
E4	CORE	Repair Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Replace power supplies

SONAR SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Supervise towed array stream and recovery operations
E4	CORE	Test active sonar systems
E4	CORE	Test Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Test computer and peripheral systems
E4	CORE	Test network interfaces (e.g., Aegis Weapon Systems (AWS), Embedded Training Systems (ETS), etc.)
E4	CORE	Test network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Test operating systems (e.g., Linux, Microsoft, etc.)
E4	CORE	Test passive sonar systems
E4	CORE	Test power supplies
E4	CORE	Test Tactical Display Systems (TDS)
E4	CORE	Test towed array and handling equipment
E4	CORE	Test Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Troubleshoot active sonar systems
E4	CORE	Troubleshoot Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Troubleshoot computer and peripheral systems
E4	CORE	Troubleshoot network interfaces (e.g., Aegis Weapon Systems (AWS), Embedded Training Systems (ETS), etc.)
E4	CORE	Troubleshoot network systems (e.g., Computer Information Systems Company (Cisco))
E4	CORE	Troubleshoot operating systems (e.g., Linux, Microsoft, etc.)
E4	CORE	Troubleshoot passive sonar systems
E4	CORE	Troubleshoot power supplies
E4	CORE	Troubleshoot Tactical Display Systems (TDS)
E4	CORE	Troubleshoot towed array and handling equipment
E4	CORE	Troubleshoot Undersea Warfare Decision Support System (USW-DSS)
E4	CORE	Update network software and firmware

UNDERSEA WARFARE (USW) PLANNING AND ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Collect acoustic data media recordings
E4	CORE	Conduct training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E4	CORE	Configure environmental range prediction systems
E4	CORE	Configure sonar systems for stand-alone training operations
E5	CORE	Configure torpedo countermeasure systems and equipment
E4	CORE	Interpret requirements from technical briefs, notices, and bulletins
E4	CORE	Perform Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E5	CORE	Train technicians in casualty control procedures

WATCH TEAM OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Configure active sonar systems
E5	CORE	Configure Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Configure passive sonar systems
E4	CORE	Deploy Expendable Mobile Anti-Submarine Training Targets (EMATT)
E4	CORE	Make operational and situational reports
E4	CORE	Perform external communications (i.e., ship-to-ship, ship-to-shore, ship-to-air, and ship-to-sub)