

# CHAPTER 73



## SONAR TECHNICIAN (SURFACE) (STG)

NAVPERS 18068-73G  
**CH-82**

Updated: April 2020

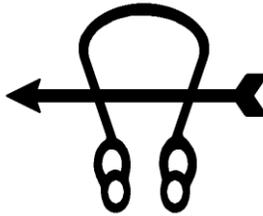
TABLE OF CONTENTS  
SONAR TECHNICIAN (SURFACE) (STG)

<b>SCOPE OF RATING</b>	STG-3
<b>GENERAL INFORMATION</b>	STG-4
<b>ANTI-SUBMARINE WARFARE OPERATIONS MANAGER</b>	STG-5
AUXILIARY AND SUPPORT SYSTEMS	STG-5
EQUIPMENT ADMINISTRATION	STG-6
ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS	STG-7
SONAR SYSTEMS	STG-7
UNDERWATER ANALYSIS	STG-7
WATCH TEAM OPERATIONS	STG-8
<b>ANTI-SUBMARINE WARFARE EQUIPMENT OPERATOR</b>	STG-10
AUXILIARY AND SUPPORT SYSTEMS	STG-10
EQUIPMENT ADMINISTRATION	STG-11
ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS	STG-12
SONAR SYSTEMS	STG-12
UNDERWATER ANALYSIS	STG-13
WATCH TEAM OPERATIONS	STG-13
<b>ANTI-SUBMARINE WARFARE EQUIPMENT TECHNICIAN</b>	STG-16
AUXILIARY AND SUPPORT SYSTEMS	STG-16
EQUIPMENT ADMINISTRATION	STG-17
SONAR SYSTEMS	STG-18
WATCH TEAM OPERATIONS	STG-19

NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

SONAR TECHNICIAN (SURFACE) (STG)



SCOPE OF RATING

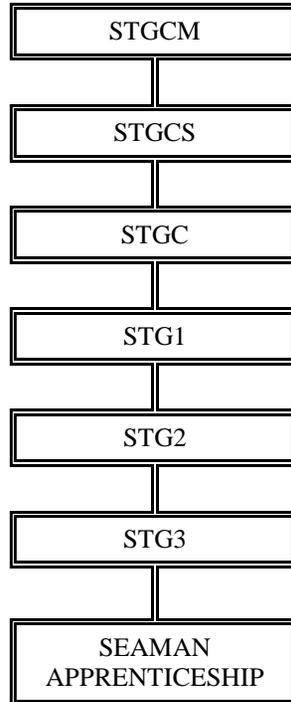
Sonar Technicians (Surface) (STG) operate surface sonar and other oceanographic systems; collect, analyze, and interpret sonar and oceanographic data; operate surface ship underwater fire control systems (with associated equipment) for the solution of Anti-Submarine Warfare (ASW) problems; conduct ordnance evolutions; and perform organizational and intermediate maintenance on surface sonar and allied 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**

**Anti-submarine Warfare Manager**

**Job Code**

**003746**

**Job Family**  
Management

**NOC**  
TBD

**Short Title (30 Characters)**  
ASW MANAGER

**Short Title (14 Characters)**  
ASW MANAGER

**Pay Plan**  
Enlisted

**Career Field**  
STG

**Other Relationships and Rules**  
7XXX, VXXX (series), and other NECs as assigned

**Job Description**

Anti-Submarine Warfare Managers manage the employment of Undersea Warfare (USW)/Anti-Submarine Warfare (ASW) equipment; evaluate, disseminate, and make tactical Undersea Warfare (USW)/Anti-Submarine Warfare (ASW) decisions; coordinate communications; manage equipment maintenance; conduct ordnance oversight; manage training programs; and monitor watch team.

**DoD Relationship**

**O\*NET Relationship**

**Group Title**  
Sonar, General

**DoD Code**  
113000

**Occupation Title**  
Computer and Information  
Systems Managers

**SOC Code**  
11-3021.00

**Job Family**  
Management

**Skills**

- Quality Control Analysis*
- Judgment and Decision Making*
- Management of Material Resources*
- Critical Thinking*
- Monitoring*
- Reading Comprehension*
- Complex Problem Solving*
- Coordination*
- Operation and Control*
- Active Learning*

**Abilities**

- Deductive Reasoning*
- Written Comprehension*
- Problem Sensitivity*
- Inductive Reasoning*
- Time Sharing*
- Control Precision*
- Information Ordering*
- Manual Dexterity*
- Mathematical Reasoning*
- Written Expression*

**AUXILIARY AND SUPPORT SYSTEMS**

**Paygrade**

**Task Type**

**Task Statements**

E4	CORE	Collect acoustic data media recordings
E4	CORE	Configure auxiliary air and cooling water systems
E4	CORE	Configure depth sounding systems
E4	CORE	Configure sonar dome pressurization systems
E5	CORE	Configure torpedo countermeasure systems
E4	CORE	Configure underwater communication systems equipment
E7	CORE	Manage sonar dome pressurization system operations
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 sonar dome pressurization systems
E4	CORE	Perform preventive maintenance on torpedo countermeasure systems
E4	CORE	Perform preventive maintenance on underwater communication systems
E4	CORE	Perform preventive maintenance on valves
E4	CORE	Repair auxiliary air and cooling water systems
E4	CORE	Repair environmental range prediction systems

### AUXILIARY AND SUPPORT SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Supervise sonar dome pressurization system operations
E4	CORE	Test auxiliary air and cooling water systems
E4	CORE	Test depth sounding systems
E4	CORE	Test environmental range prediction systems
E4	CORE	Test Expendable Bathythermograph (XBT) equipment
E4	CORE	Test sonar dome pressurization systems
E4	CORE	Test torpedo countermeasure systems
E4	CORE	Test valves

### EQUIPMENT ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Approve equipment installations, testing, and alterations
E7	CORE	Coordinate equipment certifications and recertifications
E7	CORE	Coordinate external agency support for major sonar equipment and evolutions
E6	CORE	Coordinate sound silencing procedures
E6	CORE	Draft Casualty Reports (CASREP)
E4	CORE	Interpret blueprints and ship drawings
E4	CORE	Interpret electronic schematics
E4	CORE	Interpret mechanical drawings
E4	CORE	Interpret technical manuals
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
E6	CORE	Manage divisional equipment and system configuration and maintenance operations
E6	CORE	Manage network software and firmware operations
E7	CORE	Manage ships' sound silencing program
E7	CORE	Manage sonar administration
E6	CORE	Manage underwater system password accounts
E4	CORE	Prepare acoustic data media for shipment
E4	NON-CORE	Supervise contractor installations
E5	CORE	Supervise controlled equipment inventories
E6	CORE	Supervise divisional equipment and system configuration and maintenance operations
E5	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise Maintenance Assistance Modules (MAM) usage
E5	CORE	Supervise work center equipment and system configuration and maintenance operations
E5	CORE	Update Combat Systems Operational Sequencing Systems (CSOSS)

### **EQUIPMENT ADMINISTRATION (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E7	CORE	Verify Anti-Submarine Warfare (ASW) systems Standard Operating Procedures (SOP)
E7	CORE	Verify Casualty Reports (CASREP)
E7	CORE	Verify equipment installations, testing, and alterations

### **ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E7	CORE	Coordinate ordnance handling evolutions
E7	CORE	Coordinate ordnance stowage
E7	CORE	Inspect ordnance containers
E7	CORE	Inspect ordnance magazines and lockers
E5	CORE	Inventory ordnance
E7	CORE	Manage ordnance fuel spill decontaminations
E7	CORE	Manage ordnance handling evolutions
E7	CORE	Manage ordnance stowage evolutions
E7	CORE	Monitor ordnance handling evolutions
E7	CORE	Monitor ordnance inspections
E6	CORE	Supervise ordnance fuel spill decontaminations
E6	CORE	Supervise Ordnance Handling Equipment (OHE) testing
E6	CORE	Supervise ordnance handling evolutions
E6	CORE	Supervise ordnance inspections
E6	CORE	Supervise ordnance stowage evolutions

### **SONAR SYSTEMS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Supervise Anti-Submarine Warfare (ASW) system alignment evolutions

### **UNDERWATER ANALYSIS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Analyze active acoustic data
E4	CORE	Analyze Expendable Bathythermograph (XBT) data
E4	CORE	Analyze passive acoustic data
E4	CORE	Analyze tactical oceanographic data
E7	CORE	Assign Battle Damage Assessments (BDA)
E4	CORE	Calculate best depth for submarine to avoid detection
E4	CORE	Calculate bottom loss
E4	CORE	Calculate real time sound propagation changes
E4	CORE	Calculate turn counts and Shaft Revolutions Per Minute (SRPM)
E4	CORE	Evaluate contact information
E5	CORE	Mitigate biological and environmental effects on acoustic data
E4	CORE	Perform Battle Damage Assessments (BDA)
E5	CORE	Supervise tactical oceanographic analysis operations

## WATCH TEAM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Assign contact priorities
E5	CORE	Calculate contact ranges
E5	CORE	Calculate maneuvering board solutions
E4	CORE	Compute contact course and speed
E6	CORE	Conduct acoustic and non-acoustic training
E6	CORE	Conduct sensor operator proficiency training
E5	CORE	Conduct shipboard Anti-Submarine Warfare (ASW) attack operations
E5	CORE	Conduct Target Motion Analysis (TMA)
E5	CORE	Configure systems for training operations
E7	CORE	Coordinate Anti-Submarine Warfare (ASW) missions
E7	CORE	Coordinate multi-force prosecutions (e.g., air, surface, and subsurface)
E7	CORE	Coordinate Surface Action Unit (SAU) procedures
E5	CORE	Correlate acoustic intelligence data
E5	CORE	Correlate multi-sensor data
E7	CORE	Develop Anti-Submarine Warfare (ASW) plans
E7	CORE	Develop Prevention of Mutual Interference (PMI) plans
E5	CORE	Develop sonar Tactical Decision Aid (TDA) plans
E4	CORE	Develop threat briefs
E7	CORE	Develop Water Space Management (WSM) plans
E5	CORE	Direct execution of warfare Commander's messages and intentions
E4	CORE	Draft messages
E6	CORE	Ensure compliance with warfare Commander's messages and intentions
E5	CORE	Evaluate Anti-Submarine Warfare (ASW) plots
E7	CORE	Evaluate Anti-Submarine Warfare (ASW) search and attack plans
E7	CORE	Evaluate sonar Tactical Decision Aid (TDA) plans
E5	CORE	Evaluate Target Motion Analysis (TMA)
E7	CORE	Finalize Target Motion Analysis (TMA)
E4	CORE	Input sonar Tactical Decision Aids (TDA) data
E4	CORE	Interpret contact symbologies
E4	CORE	Interpret Naval messages
E4	CORE	Make operational and situational reports
E5	CORE	Manage Anti-Submarine Warfare (ASW) doctrine statements
E7	CORE	Manage Anti-Submarine Warfare (ASW) safety programs and instructions
E6	CORE	Manage Anti-Submarine Warfare (ASW) system alignment evolutions
E6	CORE	Manage Anti-Submarine Warfare (ASW) watchstander qualification processes
E7	CORE	Manage battle group Anti-Submarine Warfare (ASW) operations
E7	CORE	Manage Integrated Undersea Surveillance System (IUSS) operations
E6	CORE	Manage shipboard Anti-Submarine Warfare (ASW) operations
E4	CORE	Manage system databases

### WATCH TEAM OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage tactical oceanographic analysis operations
E5	NON-CORE	Monitor assignment and engagement status of own ships weapon systems
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E5	CORE	Perform external communications (e.g., ship-to-ship, ship-to-shore, ship-to-air, and ship-to-sub)
E4	CORE	Perform internal communications (e.g., amplified voice communications, sound powered phone, and ships service telephone)
E5	CORE	Recommend actions to reduce own ships detectability
E5	CORE	Recommend evasive steering actions
E4	CORE	Recommend own ships course and speed changes
E5	CORE	Recommend torpedo evasion tactics
E4	CORE	Report break point and ambient limited speeds
E4	CORE	Report Contacts of Interest (COI)
E4	CORE	Resolve towed array ambiguities
E4	CORE	Review Anti-Submarine Warfare (ASW) doctrines
E4	CORE	Review combat systems equipment status
E4	CORE	Review Rules of Engagement (ROE)
E4	CORE	Review technical briefs, notices, and bulletins
E6	CORE	Supervise Integrated Undersea Surveillance System (IUSS) operations
E5	CORE	Supervise shipboard Anti-Submarine Warfare (ASW) operations
E5	CORE	Supervise small object avoidance operations
E5	CORE	Supervise sonar control during casualty conditions
E5	CORE	Supervise sonar control during special evolutions
E5	CORE	Supervise sonar watch team performance
E7	CORE	Supervise towed systems handling operations
E5	CORE	Train technicians in casualty control procedures
E5	CORE	Transition sonar control between conditions of readiness
E4	CORE	Update contact information
E7	CORE	Validate contact classification
E7	CORE	Validate contact priorities
E7	CORE	Verify message formats

**Job Title**

**Anti-submarine Warfare Operator**

**Job Code**

**003747**

**Job Family**

Military Specific

**NOC**

TBD

**Short Title (30 Characters)**

ASW OPERATOR

**Short Title (14 Characters)**

ASW OPERATOR

**Pay Plan**

Enlisted

**Career Field**

STG

**Other Relationships and Rules**

7XXX, VXXX (series), and other NECs as assigned

**Job Description**

Anti-Submarine Warfare Operators operate/maintain sonar systems, underwater fire control systems, and support equipment on combatant surface ships and fixed shore stations; conduct undersea surveillance/Anti-Submarine Warfare and aid in safe navigation; use shipboard equipment and fixed shore equipment to detect, analyze, and locate targets of interest; conduct ordnance handling.

**DoD Relationship**

**O\*NET Relationship**

**Group Title**

Sonar, General

**DoD Code**

113000

**Occupation Title**

Radar and Sonar Technicians

**SOC Code**

55-3017.00

**Job Family**

Military Specific

**Skills**

*Complex Problem Solving*

*Critical Thinking*

*Reading Comprehension*

*Coordination*

*Operation and Control*

*Judgment and Decision Making*

*Quality Control Analysis*

*Speaking*

*Active Learning*

*Operation Monitoring*

**Abilities**

*Deductive Reasoning*

*Written Comprehension*

*Manual Dexterity*

*Control Precision*

*Problem Sensitivity*

*Information Ordering*

*Written Expression*

*Inductive Reasoning*

*Mathematical Reasoning*

*Selective Attention*

**AUXILIARY AND SUPPORT SYSTEMS**

**Paygrade**

**Task Type**

**Task Statements**

E4

CORE

Collect acoustic data media recordings

E4

CORE

Configure auxiliary air and cooling water systems

E4

CORE

Configure depth sounding systems

E4

NON-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

E5

CORE

Configure torpedo countermeasure systems

E4

CORE

Configure underwater communication systems equipment

E4

CORE

Deploy Expendable Mobile Anti-Submarine Training Targets (EMATT)

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 interconnecting cables and connectors

E4

CORE

Perform preventive maintenance on sonar dome pressurization systems

E4

CORE

Perform preventive maintenance on torpedo countermeasure systems

### AUXILIARY AND SUPPORT SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
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	Perform underwater communications
E4	CORE	Repair auxiliary air and cooling water systems
E4	CORE	Repair depth sounding systems
E4	CORE	Repair environmental range prediction systems
E4	CORE	Repair Expendable Bathythermograph (XBT) equipment
E4	CORE	Repair sonar dome pressurization systems
E4	CORE	Repair torpedo countermeasure systems
E4	CORE	Repair underwater communication systems
E4	CORE	Repair valves
E4	CORE	Test auxiliary air and cooling water systems
E4	CORE	Test depth sounding systems
E4	CORE	Test environmental range prediction systems
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
E4	CORE	Test underwater communication systems
E4	CORE	Test valves
E4	NON-CORE	Troubleshoot auxiliary air and cooling water systems
E4	NON-CORE	Troubleshoot depth sounding systems
E4	NON-CORE	Troubleshoot environmental range prediction systems
E4	NON-CORE	Troubleshoot Expendable Bathythermograph (XBT) equipment
E4	NON-CORE	Troubleshoot sonar dome pressurization systems
E4	NON-CORE	Troubleshoot torpedo countermeasure systems
E4	NON-CORE	Troubleshoot underwater communication systems
E4	CORE	Troubleshoot valves

### EQUIPMENT ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct sound isolation surveys
E4	CORE	Correct sound isolation deficiencies
E4	CORE	Interpret blueprints and ship drawings
E4	CORE	Inventory controlled equipment
E5	CORE	Maintain preventive maintenance documents
E4	CORE	Maintain underwater system password accounts
E4	CORE	Prepare acoustic data media for shipment

### **EQUIPMENT ADMINISTRATION (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	NON-CORE	Supervise contractor installations
E5	CORE	Supervise controlled equipment inventories
E5	CORE	Supervise work center equipment and system configuration and maintenance operations

### **ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Install torpedo flight accessories
E5	CORE	Inventory ordnance
E4	CORE	Pack naval ordnance
E4	CORE	Perform ordnance fuel spill decontamination procedures
E4	CORE	Perform Ordnance Handling Equipment (OHE) operations
E4	CORE	Perform ordnance inspections
E4	CORE	Perform torpedo pre-fire tests
E5	CORE	Prepare ordnance for transporting
E4	CORE	Stow naval ordnance
E4	CORE	Test Ordnance Handling Equipment (OHE)
E4	CORE	Transfer naval ordnance
E4	CORE	Transport naval ordnance
E4	CORE	Unpack naval ordnance

### **SONAR SYSTEMS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Assess Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) effects on sonobuoy systems
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure environmental range prediction systems
E4	CORE	Configure tactical display systems
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
E4	CORE	Perform preventive maintenance on passive sonar systems
E4	CORE	Perform preventive maintenance on tactical display systems
E4	CORE	Perform preventive maintenance on towed array and handling equipment
E4	CORE	Test active sonar systems
E4	CORE	Test computer and peripheral systems
E4	CORE	Test network systems
E4	CORE	Test passive sonar systems

### SONAR SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Test tactical display systems
E4	CORE	Test towed array and handling equipment

### UNDERWATER ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze active acoustic data
E4	CORE	Analyze Contacts of Interest (COI)
E4	CORE	Analyze Expendable Bathythermograph (XBT) data
E4	CORE	Analyze passive acoustic data
E4	CORE	Analyze tactical oceanographic data
E4	CORE	Calculate best depth for submarine to avoid detection
E4	CORE	Calculate bottom loss
E4	CORE	Calculate real time sound propagation changes
E4	CORE	Calculate turn counts and Shaft Revolutions Per Minute (SRPM)
E4	CORE	Evaluate contact information
E4	CORE	Identify contact Closest Point of Approach (CPA)
E4	CORE	Identify contact geometry
E5	CORE	Mitigate biological and environmental effects on acoustic data
E4	CORE	Perform Battle Damage Assessments (BDA)

### WATCH TEAM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Anti-Submarine Warfare (ASW) systems
E5	CORE	Assign contact priorities
E4	CORE	Assign symbology to contacts
E5	CORE	Calculate contact ranges
E4	CORE	Calculate environmental range predictions
E5	CORE	Calculate maneuvering board solutions
E4	CORE	Collect acoustic intelligence data
E4	CORE	Collect equipment and system status data
E4	CORE	Compute contact course and speed
E6	CORE	Conduct acoustic and non-acoustic training
E4	CORE	Conduct active sonar searches
E4	CORE	Conduct Integrated Undersea Surveillance System (IUSS) operations
E4	CORE	Conduct passive sonar searches
E6	CORE	Conduct sensor operator proficiency training
E5	CORE	Conduct shipboard Anti-Submarine Warfare (ASW) attack operations
E5	CORE	Conduct Target Motion Analysis (TMA)
E5	CORE	Configure Anti-Submarine Warfare (ASW) fire control systems
E5	CORE	Configure systems for training operations
E5	CORE	Correlate acoustic intelligence data

## WATCH TEAM OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Correlate multi-sensor data
E4	CORE	Deploy emergency signal devices
E4	CORE	Deploy sonobuoys
E4	CORE	Develop threat briefs
E5	CORE	Direct execution of warfare Commander's messages and intentions
E4	CORE	Document equipment status
E4	CORE	Document underwater communications
E4	CORE	Draft messages
E5	NON-CORE	Engage underwater contacts with anti-submarine weapons
E6	CORE	Ensure compliance with warfare Commander's messages and intentions
E5	CORE	Input Anti-Submarine Warfare (ASW) fire control parameters
E4	CORE	Inpute sonar Tactical Decision Aids (TDA) data
E4	CORE	Inspect work areas, tools, and equipment
E4	CORE	Interpret contact symbologies
E4	CORE	Interpret Naval messages
E4	CORE	Launch Expendable Bathythermographs (XBT)
E4	CORE	Log amplifying Contact of Interest (COI) data
E4	CORE	Make operational and situational reports
E4	CORE	Make tow point changes
E4	CORE	Manage system databases
E5	NON-CORE	Monitor assignment and engagement status of own ships weapon systems
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E4	CORE	Perform internal communications (e.g., amplified voice communications, sound powered phone, and ships service telephone)
E4	CORE	Perform towed array stream and recovery operations
E4	CORE	Plot Water Space Management (WSM) areas
E4	CORE	Prepare towed array and handling equipment for deployment and recovery operations
E5	CORE	Recommend actions to reduce own ships detectability
E5	CORE	Recommend Anti-Submarine Warfare (ASW) search and attack plans
E5	CORE	Recommend evasive steering actions
E4	CORE	Recommend own ships course and speed changes
E5	CORE	Recommend torpedo evasion tactics
E4	CORE	Report biological effects on acoustic data
E4	CORE	Report bottom depth
E4	CORE	Report break point and ambient limited speeds
E4	CORE	Report contact bearing
E4	CORE	Report Contacts of Interest (COI)

**WATCH TEAM OPERATIONS (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Report environmental effects on acoustic data
E4	CORE	Report evasion devices and acoustic jamming
E4	CORE	Report initial contact classifications
E4	CORE	Report sources of self noise
E4	CORE	Resolve towed array ambiguities
E4	CORE	Review Anti-Submarine Warfare (ASW) doctrines
E4	CORE	Review combat systems equipment status
E4	CORE	Review Rules of Engagement (ROE)
E4	CORE	Review technical briefs, notices, and bulletins
E4	CORE	Track Contacts of Interest (COI)
E5	CORE	Transition sonar control between conditions of readiness
E4	CORE	Update contact information
E4	CORE	Update plotting and status boards

**Job Title**

**Anti-submarine Warfare Technician**

**Job Code**

**003748**

**Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

ASW TECHNICIAN

**Short Title (14 Characters)**

ASW TECHNICIAN

**Pay Plan**

Enlisted

**Career Field**

STG

**Other Relationships and Rules**

7XXX, VXXX (series), and other NECs as assigned

**Job Description**

Anti-Submarine Warfare Technicians maintain, troubleshoot, and repair sonar systems, underwater fire control systems, and support equipment on combatant surface ships and fixed shore stations.

**DoD Relationship**

**Group Title**

Sonar, General

**DoD Code**

113000

**O\*NET Relationship**

**Occupation Title**

Electrical and Electronics  
Repairers, Commercial and  
Industrial Equipment

**SOC Code**

49-2094.00

**Job Family**

Installation, Maintenance,  
and Repair

**Skills**

*Reading Comprehension*

*Complex Problem Solving*

*Quality Control Analysis*

*Troubleshooting*

*Systems Evaluation*

*Operation Monitoring*

*Repairing*

*Equipment Maintenance*

*Operation and Control*

*Management of Material Resources*

**Abilities**

*Deductive Reasoning*

*Problem Sensitivity*

*Manual Dexterity*

*Written Comprehension*

*Control Precision*

*Information Ordering*

*Inductive Reasoning*

*Written Expression*

*Time Sharing*

*Fluency of Ideas*

**AUXILIARY AND SUPPORT SYSTEMS**

**Pavgrade**

E4

**Task Type**

CORE

**Task Statements**

Configure General Purpose Electronic Test Equipment (GPETE)

E4

CORE

Configure Special Purpose Electronic Test Equipment (SPETE)

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

E4

CORE

Perform preventive maintenance on sonar dome pressurization systems

E4

CORE

Perform preventive maintenance on torpedo countermeasure systems

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 auxiliary air and cooling water systems

E4

CORE

Repair depth sounding systems

E4

CORE

Repair environmental range prediction systems

### AUXILIARY AND SUPPORT SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Repair Expendable Bathythermograph (XBT) equipment
E4	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
E4	CORE	Repair underwater communication systems
E4	CORE	Repair valves
E4	CORE	Test auxiliary air and cooling water systems
E4	CORE	Test depth sounding systems
E4	CORE	Test environmental range prediction systems
E4	CORE	Test Expendable Bathythermograph (XBT) equipment
E4	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
E4	CORE	Test underwater communication systems
E4	CORE	Test valves
E4	CORE	Troubleshoot Alternating Current (AC) circuits
E4	NON-CORE	Troubleshoot auxiliary air and cooling water systems
E4	CORE	Troubleshoot computer and peripheral systems
E4	NON-CORE	Troubleshoot depth sounding systems
E4	CORE	Troubleshoot digital circuits
E4	CORE	Troubleshoot Direct Current (DC) circuits
E4	NON-CORE	Troubleshoot environmental range prediction systems
E4	NON-CORE	Troubleshoot Expendable Bathythermograph (XBT) equipment
E4	CORE	Troubleshoot fiber optic cables and connectors
E4	CORE	Troubleshoot interconnecting cables and connectors
E4	NON-CORE	Troubleshoot sonar dome pressurization systems
E4	NON-CORE	Troubleshoot torpedo countermeasure systems
E4	NON-CORE	Troubleshoot underwater communication systems
E4	CORE	Troubleshoot valves

### EQUIPMENT ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Correct sound isolation deficiencies
E4	CORE	Interpret blueprints and ship drawings
E4	CORE	Interpret electronic schematics
E4	CORE	Interpret mechanical drawings
E4	CORE	Interpret technical manuals

## EQUIPMENT ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Inventory controlled equipment
E4	CORE	Inventory network software and firmware
E5	CORE	Maintain preventive maintenance documents
E4	CORE	Maintain underwater system password accounts
E6	CORE	Manage Combat Systems Operational Sequencing System (CSOSS) operations
E6	CORE	Manage network software and firmware operations
E6	CORE	Manage underwater system password accounts
E4	NON-CORE	Supervise contractor installations
E5	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise Maintenance Assistance Modules (MAM) usage
E5	CORE	Supervise work center equipment and system configuration and maintenance operations
E5	CORE	Update Combat Systems Operational Sequencing Systems (CSOSS)

## SONAR SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure environmental range prediction systems
E4	CORE	Configure network systems
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
E4	CORE	Perform preventive maintenance on passive sonar systems
E4	CORE	Perform preventive maintenance on tactical display systems
E4	CORE	Perform preventive maintenance on towed array and handling equipment
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 systems
E4	CORE	Repair passive sonar systems
E4	CORE	Repair tactical display systems
E4	CORE	Repair towed array and handling equipment
E4	CORE	Test active sonar systems
E4	CORE	Test computer and peripheral systems
E4	CORE	Test network systems
E4	CORE	Test passive sonar systems
E4	CORE	Test tactical display systems
E4	CORE	Test towed array and handling equipment

### SONAR SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Troubleshoot active sonar systems
E4	CORE	Troubleshoot Anti-Submarine Warfare (ASW) fire control systems
E4	CORE	Troubleshoot network systems
E4	CORE	Troubleshoot passive sonar systems
E4	CORE	Troubleshoot tactical display systems
E4	CORE	Troubleshoot towed array and handling equipment
E4	CORE	Update network software and firmware

### WATCH TEAM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align Anti-Submarine Warfare (ASW) systems
E4	CORE	Collect equipment and system status data
E5	CORE	Configure systems for training operations
E4	CORE	Document equipment status
E4	CORE	Inspect work areas, tools, and equipment
E4	CORE	Manage system databases
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E4	CORE	Perform internal communications (e.g., amplified voice communications, sound powered phone, and ships service telephone)
E4	CORE	Prepare towed array and handling equipment for deployment and recovery operations
E4	CORE	Review technical briefs, notices, and bulletins
E5	CORE	Train technicians in casualty control procedures