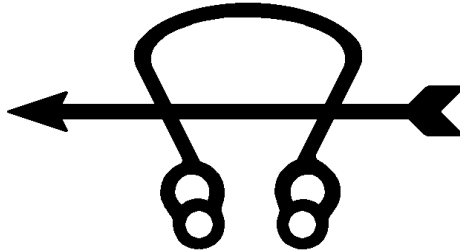


CHAPTER 74



SONAR TECHNICIAN (SUBMARINE) (STS)

NAVPERS 18068F-74H
Change 103

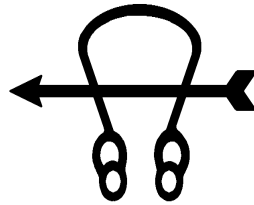
Updated: July 2025

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NAVY ENLISTED OCCUPATIONAL STANDARD
FOR
SONAR TECHNICIAN (SUBMARINE) (STS)



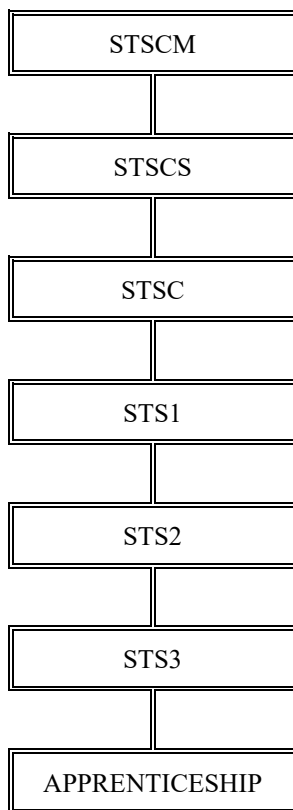
SCOPE OF RATING

Sonar Technicians, Submarine (STS) operate submarine sonar mainframe and auxiliary equipment to include controlling, evaluating and intercepting sonar data from oceanographic equipment; coordinate submarine sonar and underwater fire control interface; employ environmental monitoring equipment; and perform organizational and intermediate maintenance.

These Occupational Standards are to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 74.

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 article 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**Basic Sonar Operator****Job Code****001755****Job Family**

Transportation and Material Moving

NOC

TBD

Short Title (30 Characters)

BASIC SONAR OPERATOR

Short Title (14 Characters)

BAS SONAR OPER

Pay Plan

Enlisted

Career Field

STS

Other Relationships and Rules

NEC TXXX and 7XXX series and other NECs as assigned

Job Description

Basic Sonar Operators detect, track, and classify surface and sub-surface contacts; conduct minor maintenance on and operate mainframe sonar systems, depth sounding equipment, and other auxiliary equipment; and perform towed array handling evolutions.

DoD Relationship**Group Title**

Sonar, General

DoD Code

113000

O*NET Relationship**Occupation Title**

Air Traffic Controllers

SOC Code

53-2021.00

Job Family

Transportation and Material Moving

Skills*Complex Problem Solving**Critical Thinking**Mathematics**Operation Monitoring**Systems Evaluation**Operation and Control**Active Listening**Equipment Maintenance**Equipment Selection**Judgment and Decision Making***Abilities***Deductive Reasoning**Information Ordering**Flexibility of Closure**Speed of Closure**Auditory Attention**Mathematical Reasoning**Problem Sensitivity**Written Comprehension**Control Precision**Inductive Reasoning***ACOUSTIC INTELLIGENCE****Paygrade**

E4

Task Type

CORE

Task Statements

Calculate acoustic source relationships

E4

CORE

Calculate prime mover characteristics and component relationships

E4

CORE

Classify sonar contacts

ADMINISTRATION**Paygrade**

E4

Task Type

CORE

Task Statements

Record towed array handling data

MAINTENANCE**Paygrade**

E4

Task Type

CORE

Task Statements

Conduct corrective maintenance on sonar equipment

E4

CORE

Conduct preventive maintenance on sonar equipment

E4

CORE

Correct sound isolation deficiencies

E4

CORE

Identify faults in fiber optic cabling, devices, and networks

E4

CORE

Identify sound isolation deficiencies

E4

CORE

Isolate electrical and hydraulic sonar equipment

OCEANOGRAPHY**Paygrade**

E4

Task Type

CORE

Task Statements

Analyze data from tactical decision aids

E4

CORE

Analyze effects of environment on sonar operations

E4

CORE

Analyze real-time oceanographic data

STS-5

OCEANOGRAPHY (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Develop recommendations based on real-time oceanographic data

SONAR EMPLOYMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze contact data utilizing sonar equipment
E4	CORE	Analyze contact transient emissions
E4	CORE	Conduct towed array handling evolutions
E4	CORE	Configure workstation for system employment
E4	CORE	Correlate contacts utilizing multiple sensors (i.e., spherical array, towed array, and other hull sensors)
E4	CORE	Detect navigation hazards utilizing sonar equipment (active and passive)
E4	CORE	Provide contact management recommendations
E4	CORE	Track sonar contacts utilizing sonar equipment

SONAR FUNDAMENTALS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Doppler effects
E4	CORE	Analyze indications of contact range
E4	CORE	Analyze relative motion for contact management
E4	CORE	Calculate shaft Revolutions Per Minute (RPMs) by system employment
E4	CORE	Detect contacts utilizing passive sensors
E4	CORE	Report sonar data to sonar supervisor

Job Title**Advanced Sonar Operator****Job Code****001760****Job Family**

Protective Service

NOC

TBD

Short Title (30 Characters)

SONAR OPERATOR

Short Title (14 Characters)

ADV SONAR OPER

Pay Plan

Enlisted

Career Field

STS

Other Relationships and Rules

NEC TXXX and 7XXX series and other NECs as assigned

Job Description

Advanced Sonar Operators maintain, troubleshoot, and repair sonar systems, fiber optic networks, and support equipment; operate mainframe sonar systems and auxiliary equipment to detect, track, and classify acoustic contacts; perform towed array handling and tactical oceanography employment; and collect and analyze oceanographic data.

DoD Relationship**Group Title**

Sonar, General

DoD Code

113000

O*NET Relationship**Occupation Title**

Intelligence Analysts

SOC Code

33-3021.06

Job Family

Protective Service

Skills*Complex Problem Solving**Operation Monitoring**Systems Evaluation**Critical Thinking**Operation and Control**Mathematics**Coordination**Repairing**Systems Analysis**Equipment Maintenance***Abilities***Deductive Reasoning**Information Ordering**Flexibility of Closure**Problem Sensitivity**Inductive Reasoning**Speed of Closure**Written Comprehension**Auditory Attention**Mathematical Reasoning**Visual Color Discrimination***ACOUSTIC INTELLIGENCE****Paygrade****Task Type****Task Statements**

E5

CORE

Analyze contact data to determine operational parameters

E4

CORE

Calculate acoustic source relationships

E4

CORE

Calculate prime mover characteristics and component relationships

E4

CORE

Classify sonar contacts

E5

CORE

Collect Acoustic Intelligence (ACINT) data

ADMINISTRATION**Paygrade****Task Type****Task Statements**

E5

NON-CORE

Manage Acoustic Signature Maintenance Log (ASML) entries

E5

CORE

Prepare Acoustic Intelligence (ACINT) recording packages

E4

CORE

Record towed array handling data

MAINTENANCE**Paygrade****Task Type****Task Statements**

E4

CORE

Conduct corrective maintenance on sonar equipment

E4

CORE

Conduct preventive maintenance on sonar equipment

E5

CORE

Correct fiber optic deficiencies

E4

CORE

Correct sound isolation deficiencies

E4

CORE

Identify faults in fiber optic cabling, devices, and networks

E4

CORE

Identify sound isolation deficiencies

MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Isolate electrical and hydraulic sonar equipment
E5	CORE	Maintain fiber optic network
E5	CORE	Monitor sonar system status
E5	NON-CORE	Prepare sonar dome for entry and ship's evolutions
E5	CORE	Troubleshoot sonar equipment

OCEANOGRAPHY

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze data from tactical decision aids
E4	CORE	Analyze effects of environment on sonar operations
E4	CORE	Analyze real-time oceanographic data
E5	CORE	Collect scientific oceanographic data
E4	CORE	Develop recommendations based on real-time oceanographic data
E5	CORE	Develop sonar search plans

SONAR EMPLOYMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze active return characteristics
E4	CORE	Analyze contact data utilizing sonar equipment
E4	CORE	Analyze contact transient emissions
E4	CORE	Conduct towed array handling evolutions
E4	CORE	Configure workstation for system employment
E4	CORE	Correlate contacts utilizing multiple sensors (i.e., spherical array, towed array, and other hull sensors)
E4	CORE	Detect navigation hazards utilizing sonar equipment (active and passive)
E4	CORE	Provide contact management recommendations
E5	CORE	Provide recommendations for tactical security conditions
E4	CORE	Track sonar contacts utilizing sonar equipment

SONAR FUNDAMENTALS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Doppler effects
E4	CORE	Analyze indications of contact range
E5	CORE	Analyze own ship's noise offenders
E4	CORE	Analyze relative motion for contact management
E5	CORE	Analyze self-noise data to determine ship's signature
E4	CORE	Calculate shaft Revolutions Per Minute (RPMs) by system employment
E5	CORE	Collect self-noise data to determine ship signature
E5	CORE	Detect contacts utilizing own ship's active sonar
E4	CORE	Detect contacts utilizing passive sensors
E4	CORE	Report sonar data to sonar supervisor

Job Title**Sonar Supervisor****Job Code****001765****Job Family**

Military Specific

NOC

TBD

Short Title (30 Characters)

SONAR SUPERVISOR

Short Title (14 Characters)

SONAR SUPV

Pay Plan

Enlisted

Career Field

STS

Other Relationships and Rules

NEC TXXX and 7XXX series and other NECs as assigned

Job Description

Sonar Supervisors manage the employment of undersea warfare equipment; evaluate, disseminate, and make tactical undersea warfare decisions; coordinate communications; oversee divisional and departmental operations, maintenance, training, tactical oceanography employment, and decision making; conduct critical work functions to support producing intelligence, processing and attacking targets; supervise equipment maintenance and repair; and provide personnel support.

DoD Relationship**Group Title**

Sonar, General

DoD Code

113000

O*NET Relationship**Occupation Title**Command and Control Center
Officers**SOC Code**

55-1015.00

Job Family

Military Specific

Skills*Complex Problem Solving**Operation Monitoring**Systems Evaluation**Coordination**Critical Thinking**Management of Material Resources**Operation and Control**Judgment and Decision Making**Mathematics**Management of Personnel Resources***Abilities***Information Ordering**Deductive Reasoning**Problem Sensitivity**Flexibility of Closure**Inductive Reasoning**Speed of Closure**Written Comprehension**Written Expression**Auditory Attention**Mathematical Reasoning***ACOUSTIC INTELLIGENCE****Paygrade****Task Type****Task Statements**

E5

CORE

Analyze contact data to determine operational parameters

E4

CORE

Calculate acoustic source relationships

E4

CORE

Calculate prime mover characteristics and component relationships

E4

CORE

Classify sonar contacts

E5

CORE

Collect Acoustic Intelligence (ACINT) data

ADMINISTRATION**Paygrade****Task Type****Task Statements**

E6

CORE

Conduct tactical briefings (e.g., environmental conditions, expected frequencies, ship equipment characteristics, etc.)

E6

CORE

Coordinate data collection operations (e.g., exercise, mission set, torpedo testing, etc.)

E5

NON-CORE

Manage Acoustic Signature Maintenance Log (ASML) entries

E7

CORE

Manage sonar division administrative requirements (e.g., tactical decision aids, search plans, etc.)

E7

CORE

Manage sonar dome for entry and ship's evolutions

E6

CORE

Perform post-watch reconstruction for data collection and analysis

E5

CORE

Prepare Acoustic Intelligence (ACINT) recording packages

E4

CORE

Record towed array handling data

STS-9

MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct corrective maintenance on sonar equipment
E4	CORE	Conduct preventive maintenance on sonar equipment
E5	CORE	Correct fiber optic deficiencies
E4	CORE	Correct sound isolation deficiencies
E4	CORE	Identify faults in fiber optic cabling, devices, and networks
E4	CORE	Identify sound isolation deficiencies
E4	CORE	Isolate electrical and hydraulic sonar equipment
E5	CORE	Maintain fiber optic network
E5	CORE	Monitor sonar system status
E5	NON-CORE	Prepare sonar dome for entry and ship's evolutions
E7	CORE	Supervise sonar corrective maintenance evolutions
E6	CORE	Supervise sonar preventive maintenance evolutions
E5	CORE	Troubleshoot sonar equipment

OCEANOGRAPHY

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze data from tactical decision aids
E4	CORE	Analyze effects of environment on sonar operations
E4	CORE	Analyze real-time oceanographic data
E5	CORE	Collect scientific oceanographic data
E4	CORE	Develop recommendations based on real-time oceanographic data
E5	CORE	Develop sonar search plans

SONAR EMPLOYMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze active return characteristics
E4	CORE	Analyze contact data utilizing sonar equipment
E4	CORE	Analyze contact transient emissions
E4	CORE	Conduct towed array handling evolutions
E4	CORE	Configure workstation for system employment
E4	CORE	Correlate contacts utilizing multiple sensors (i.e., spherical array, towed array, and other hull sensors)
E4	CORE	Detect navigation hazards utilizing sonar equipment (active and passive)
E4	CORE	Provide contact management recommendations
E5	CORE	Provide recommendations for tactical security conditions
E6	CORE	Provide recommendations for towed array employment
E6	CORE	Supervise sonar system employment
E6	CORE	Supervise towed array handling evolutions
E4	CORE	Track sonar contacts utilizing sonar equipment

SONAR FUNDAMENTALS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Doppler effects
E4	CORE	Analyze indications of contact range
E5	CORE	Analyze own ship's noise offenders
E4	CORE	Analyze relative motion for contact management
E5	CORE	Analyze self-noise data to determine ship's signature
E4	CORE	Calculate shaft Revolutions Per Minute (RPMs) by system employment
E5	CORE	Collect self-noise data to determine ship signature
E5	CORE	Detect contacts utilizing own ship's active sonar
E4	CORE	Detect contacts utilizing passive sensors