# CHAPTER 73



# SONAR TECHNICIAN (SURFACE) (STG)

NAVPERS 18068-73D CH-44

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# NAVY ENLISTED OCCUPATIONAL STANDARD

### **FOR**

### SONAR TECHNICIAN (SURFACE) (STG)



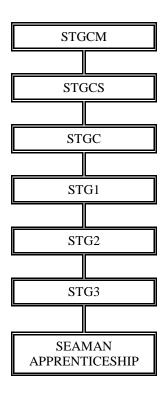
### SCOPE OF RATING

<u>Sonar Technicians, Surface (STG)</u> operate surface sonar and other oceanographic systems; manipulate, control, evaluate, and interpret sonar and oceanographic data; operate surface ship underwater fire control systems (with associated equipment) for the solution of anti-submarine warfare problems; 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 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 Code 003746

<u>NOC</u> 1100-3021.00 Short Title (30 Characters) ASW OPERATIONS MANAGER Job Family Management Short Title (10 Characters) ASW OP MGR

Pay Plan Enlisted <u>Career Field</u> STG **Proficiency Level** 

Other Relationships and Rules: Any applicable NEC: 0466, 0507, 1321 or 0000

### **Job Description**

Anti-Submarine Warfare Operations Managers manage the employment of Undersea Warfare equipment. They evaluate, disseminate and make tactical Undersea Warfare decisions. They coordinate communications, manage equipment maintenance, and conduct ordnance oversight. They also manage training programs and monitor watch team operations.

**DoD Relationship** O\*NET Relationship

Name and Family Code: Title and Group: Code and Area: Title and SOC Code:

113000 Computer and Information Systems Sonar, General Management

11 113 Managers 11

11-3021.00

# ANTI-SUBMARINE WARFARE (ASW)

<u>Paygrade</u> E6	<u>Task Type</u> CORE	Task Statements Assign contact priorities	<u>Skills</u>	<u>Abilities</u>
Lo	CORE	rissign contact priorities	Critical Thinking Judgment and Decision Making	Deductive Reasoning Information Ordering
E7	CORE	Coordinate Anti-Submarine Warfa	are (ASW) missions	
			Coordination	Category Flexibility
			Operation and Control	Deductive Reasoning
E7	CORE	Coordinate Anti-Submarine Warfa		
			Coordination	Category Flexibility
			Operation and Control	Deductive Reasoning
E7	CORE	Coordinate multi-force prosecution		
			Coordination	Category Flexibility
			Operation and Control	Deductive Reasoning
E7	CORE	Coordinate Surface Action Unit (S		
			Coordination	Category Flexibility
			Operation and Control	Deductive Reasoning
E6	CORE	Correlate multi-sensor data		
			Complex Problem Solving	Information Ordering
			Coordination	Deductive Reasoning
E7	CORE	Establish Prevention of Mutual Int	terference (PMI) plans	
			Equipment Selection	Category Flexibility
			Operation and Control	Inductive Reasoning
E7	CORE	Establish Water Space Manageme	nt (WSM) plans	
			Equipment Selection	Category Flexibility
			Operation and Control	Inductive Reasoning
E6	CORE	Evaluate Anti-Submarine Warfare		
			Critical Thinking	Inductive Reasoning
			Operations Analysis	Problem Sensitivity
E7	CORE	Evaluate force lay down plan Und	ersea Warfare/Decision Support Systems (	
			Critical Thinking	Inductive Reasoning
			Operations Analysis	Problem Sensitivity
E6	CORE	Evaluate search plans	operations (manysts	1 rooten zenzurruy
20	COLL	Dyunune seuren piuns	Judgment and Decision Making	Inductive Reasoning
			Critical Thinking	Problem Sensitivity
E6	CORE	Implement Prevention of Mutual I	· ·	1 rooten zenzurruy
Lo	CORE	implement revention of withtur	Coordination	Deductive Reasoning
			Critical Thinking	Inductive Reasoning
E6	CORE	Implement Water Space Managem		manetive Reasoning
Lo	COKL	implement water space managem	Coordination	Deductive Reasoning
			Critical Thinking	Inductive Reasoning
E6	CORE	Interpret Anti-Submarine Warfare		manetive Reasoning
LU	COKE	morpret Anti-Submarine Warrare	Reading Comprehension	Written Comprehension
			Critical Thinking	Deductive Reasoning
E7	CORE	Manage battle group Anti-Submar		Deductive Neusoning
E/	COKE	Manage battle group Anti-Submar	Critical Thinking	Deductive Reasoning
			Coordination	
			Coordination	Inductive Reasoning

E6	CORE	Manage Integrated Underwater Sur	rveillance Sonar System (IUSS) opera	ntions
			Critical Thinking	Deductive Reasoning
			Coordination	Inductive Reasoning
E6	CORE	Manage shipboard Anti-Submarine	e Warfare (ASW) operations	
			Critical Thinking	Deductive Reasoning
			Coordination	Inductive Reasoning
E6	CORE	Manage small object avoidance op	erations	
			Critical Thinking	Deductive Reasoning
			Coordination	Inductive Reasoning
E6	CORE	Perform tactical oceanographic and	alysis	
			Critical Thinking	Deductive Reasoning
			Systems Analysis	Inductive Reasoning
E7	CORE	Plan Anti-Submarine Warfare (AS	W) missions	
			Complex Problem Solving	Inductive Reasoning
			Operation and Control	Written Comprehension
E6	CORE	Prepare acoustic data media for shi	ipment	
			Coordination	Information Ordering
			Management of Personnel	Written Expression
E6	CORE	Recommend actions to reduce own	ships detectability	
			Complex Problem Solving	Written Comprehension
			Speaking	Written Expression
E6	CORE	Recommend evasive steering actio	ns	
			Complex Problem Solving	Written Comprehension
			Speaking	Written Expression
E7	CORE	Supervise towed systems handling		
			Instructing	Problem Sensitivity
			Monitoring	Time Sharing

# AUXILIARY AND SUPPORT SYSTEMS

<b>Paygrade</b>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E7	CORE	Manage sonar dome configuration	changes	
			Critical Thinking	Deductive Reasoning
			Coordination	Inductive Reasoning
E6	CORE	Monitor sonar dome pressurization	system operations	
			Monitoring	Inductive Reasoning
			Operation Monitoring	Deductive Reasoning

# EQUIPMENT ADMINISTRATION

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E7	CORE	Approve installation and alteration		
			Quality Control Analysis	Deductive Reasoning
E.C	CODE	C 1:	Systems Analysis	Written Comprehension
E6	CORE	Coordinate equipment certification		D 1 .: D .:
			Critical Thinking	Deductive Reasoning
			Quality Control Analysis	Written Expression
E6	CORE	Manage alignment of weapons and	combat systems equipment	
			Equipment Selection	Deductive Reasoning
			Management of Material Resources	Written Expression
E6	CORE	Manage controlled equipment	•	· ·
		2 1 1	Management of Material Resources	Written Expression
			Operation and Control	Written Comprehension
E6	CORE	Manage electronic systems configu	*	with comprehension
LU	COKL	Manage electronic systems confige	Critical Thinking	Deductive Reasoning
			ě.	0
E7	CODE	M	Systems Analysis	Problem Sensitivity
E/	CORE	Manage network software and firm		
			Management of Material Resources	Information Ordering
			Systems Analysis	Written Comprehension
E6	CORE	Manage work center equipment and	d system level administration	
			Management of Material Resources	Deductive Reasoning
			Equipment Selection	Written Comprehension
E6	JSPEC	Monitor contractor testing	• •	*
		8	Quality Control Analysis	Problem Sensitivity
			Operation Monitoring	Inductive Reasoning
			operation informating	z

E6	CORE	Monitor password accounts		
			Systems Evaluation	Problem Sensitivity
			Operation Monitoring	Selective Attention
E6	CORE	Supervise installation and alteration	n of equipment	
		_	Management of Personnel	Problem Sensitivity
			Monitoring	Oral Expression
E7	CORE	Update password accounts	-	_
			Reading Comprehension	Written Expression
			Systems Analysis	Written Comprehension
			B y Bremis Timen y Bris	Without Comprehension

# SONAR SYSTEMS

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Supervise towed array handle	ing system operations	
			Instructing	Problem Sensitivity
			Monitoring	Time Sharing

# UNDERWATER ANALYSIS

<b>Paygrade</b>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Correlate acoustic intelligence data	a	
			Complex Problem Solving	Information Ordering
			Coordination	Deductive Reasoning
E6	CORE	Determine final contact classificat	ions	
			Complex Problem Solving	Deductive Reasoning
			Judgment and Decision Making	Information Ordering
E6	CORE	Review narrow band tonals		
			Active Learning	Written Comprehension
			Reading Comprehension	Written Expression
			C .	

# WATCH TEAM OPERATIONS

<u>Paygrade</u>	Task Type	Task Statements	Skills	<u>Abilities</u>
E6	CORE	Coordinate tactical information dis		
			Speaking	Deductive Reasoning
			Writing	Information Ordering
E6	CORE	Manage sonar control during casus		
			Critical Thinking	Deductive Reasoning
			Coordination	Inductive Reasoning
E6	CORE	Manage sonar doctrine statements		
			Critical Thinking	Deductive Reasoning
			Coordination	Inductive Reasoning
E6	CORE	Monitor watch team performance		
		_	Monitoring	Problem Sensitivity
			Time Management	Inductive Reasoning
E6	JSPEC	Review Commanding Officer's (C	O) tactical orders	Ţ.
			Reading Comprehension	Written Comprehension
			Active Learning	Selective Attention
E6	JSPEC	Review Rules of Engagement (RC	DE)	
			Reading Comprehension	Written Comprehension
			Active Learning	Selective Attention
E6	CORE	Review sonar doctrine	Ü	
			Reading Comprehension	Written Comprehension
			Active Learning	Selective Attention
E6	JSPEC	Review warfare commander's mes		
			Reading Comprehension	Written Comprehension
			Active Learning	Selective Attention
E6	CORE	Supervise equipment alignment ac	ecording to Emission Control (EMCON) p	olans
		~ · · · · · · · · · · · · · · · · · · ·	Quality Control Analysis	Problem Sensitivity
			Monitoring	Oral Expression
E6	CORE	Supervise sonar control during spe		Orai Expression
20	00112	Super tise some control during spe	Instructing	Problem Sensitivity
			Monitoring	Time Sharing
			monno mg	1 mic bianing

E6	CORE	Transition sonar control between conditions of readiness	
		Operation and Control	Oral Expression
		Systems Analysis	Control Precision
E6	JSPEC	Verify systems alignment to Commanding Officer's (CO) tactical orders	
		Quality Control Analysis	Information Ordering
		Systems Analysis	Written Comprehension

Job Code 003747

# **Anti-Submarine Warfare Equipment Operator**

NOC 4300-9011.00 Short Title (30 Characters) ASW EQUIPMENT OPERATOR Short Title (10 Characters) ASW EQ OP

Job Family
Office and Administrative Support

Other Relationships and Rules: Pay Plan Career Field **Proficiency Level** Enlisted 0406, 0411, 0511, 0508, 0521, 0505, 0450, 0430, 0516, 0523

### **Job Description**

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

O\*NET Relationship **DoD Relationship** 

Title and Group: Code and Area: Title and SOC Code: Name and Family Code: Computer Operators Sonar, General 113000 Office and Administrative 11 43-9011.00 113 Support 43

### ANTI-SUBMARINE WARFARE (ASW)

<u>Paygrade</u> E4	<u>Task Type</u> CORE	<u>Task Statements</u> Analyze Contacts of Interest (COI)	<u>Skills</u>	<u>Abilities</u>
		•	Complex Problem Solving Monitoring	Deductive Reasoning Speed of Closure
E4	CORE	Assign symbology to contacts	-	
			Critical Thinking	Deductive Reasoning
T-4	CORF		Judgment and Decision Making	Information Ordering
E4	CORE	Compute contact course and speed		
			Critical Thinking Mathematics	Deductive Reasoning
E4	CORE	Conduct Torget Metion Analysis (		Mathematical Reasoning
E4	COKE	Conduct Target Motion Analysis (	Critical Thinking	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Determine best depth to avoid dete		Mainematical Reasoning
LT	CORE	Determine best deput to avoid dete	Complex Problem Solving	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Determine break point and ambient		manenanea Reasoning
E.	COIL	Betermine oreak point and unioren	Complex Problem Solving	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Determine contact bearing		
			Complex Problem Solving	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Determine contact ranges		· ·
			Complex Problem Solving	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Evaluate contact information		_
			Critical Thinking	Inductive Reasoning
			Complex Problem Solving	Problem Sensitivity
E4	CORE	Execute search plans		
			Coordination	Deductive Reasoning
			Critical Thinking	Inductive Reasoning
E4	CORE	Generate acoustic data media recor		_
			Equipment Selection	Deductive Reasoning
T. 4	CODE		Operations Analysis	Manual Dexterity
E4	CORE	Identify evasion devices and acous		D 1 D
			Judgment and Decision Making	Deductive Reasoning
E4	CODE	T1 416 1 1 1 1 4	Complex Problem Solving	Perceptual Speed
E4	CORE	Identify submerged objects	L. J D	D. J. div. B
			Judgment and Decision Making	Deductive Reasoning
E5	CORE	Input underwater fire control paran	Complex Problem Solving	Perceptual Speed
цэ	CORE	input underwater the control paran	Critical Thinking	Control Precision
			Judgment and Decision Making	Manual Dexterity
E5	CORE	Launch anti-submarine weapons	suasment and Decision making	танин Беленну
	CORL	Examen and submarine weapons	Coordination	Inductive Reasoning
			Equipment Selection	Finger Dexterity
			-1··1··3··· bereemen	

E4	CORE	Launch Expendable Mobile Acou		
			Coordination	Inductive Reasoning
			Equipment Selection	Finger Dexterity
E5	CORE	Localize Targets of Interest (TOI)		
			Coordination	Deductive Reasoning
			Critical Thinking	Inductive Reasoning
E5	CORE	Operate underwater fire control sy	vstems	
			Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Perform Battle Damage Assessme	ents (BDA)	
		ē	Critical Thinking	Information Ordering
			Judgment and Decision Making	Inductive Reasoning
E4	CORE	Recognize and interpret symbolog		
		g	Operation Monitoring	Perceptual Speed
			Active Learning	Deductive Reasoning
E5	CORE	Recommend Anti-Submarine War	fare (ASW) search and attack plans	Deallett ve Treasenting
20	COLL	Tree of the such as the such a	Complex Problem Solving	Static Strength
			Speaking	Written Expression
E4	CORE	Recommend own ship's course an	1 0	Willen Expression
LT	CORL	Recommend own simps course an	Complex Problem Solving	Written Comprehension
			Speaking	Written Expression
E5	CORE	Recommend torpedo evasion tacti	1 0	Written Expression
EJ	COKE	Recommend torpedo evasion tacti	Complex Problem Solving	Written Comprehension
			Speaking	Written Expression
E4	CORE	Report Contacts of Interest (COI)	<i>Speaking</i>	Written Expression
124	COKE	Report Contacts of Interest (COI)	Indoment and Desigion Making	Onal Empagaion
			Judgment and Decision Making	Oral Expression
E4	CORE	D 1 ( 1 11 11 11	Speaking	Speech Clarity
E4	CORE	Resolve towed array ambiguities		
			Complex Problem Solving	Inductive Reasoning
	CODE	m 1 G	Mathematics	Mathematical Reasoning
E4	CORE	Track Contacts of Interest (COI)		
			Judgment and Decision Making	Control Precision
			Operation Monitoring	Problem Sensitivity
E4	CORE	Update and display contact inform		
			Reading Comprehension	Control Precision
			Operation and Control	Written Expression

# AUXILIARY AND SUPPORT SYSTEMS

<u>Paygrade</u> F4	Task Type CORE	<u>Task Statements</u> Make operational and situational re	Skills Prorts	<u>Abilities</u>
L	CORL	wake operational and situational re	Reading Comprehension	Speech Clarity
			Speaking	Written Expression
E4	CORE	Monitor external communications	2,	
			Monitoring	Speech Recognition
			Active Listening	Auditory Attention
E4	CORE	Operate auxiliary air and cooling w		,
		, ,	Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Operate sonar dome pressurization	systems	_
			Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Operate torpedo countermeasure sy	stems equipment	_
			Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Operate underwater communication	n systems equipment	
			Equipment Selection	Control Precision
			Operation Monitoring	Deductive Reasoning
E4	CORE	Perform external communications	(radios, telephones, ship-to-ship, and ship	o-to-shore)
			Active Listening	Speech Recognition
			Speaking	Speech Clarity
E4	CORE	Stream torpedo countermeasure sys	stems	
			Coordination	Deductive Reasoning
			Operation and Control	Manual Dexterity

Quality Control Analysis Auditory Attention Operation Monitoring Hearing Sensitivity

# EQUIPMENT ADMINISTRATION

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Operate network systems		
			Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E5	CORE	Supervise equipment and syste	em level operations	
			Management of Personnel	Problem Sensitivity
			Monitoring	Oral Expression

# SONAR SYSTEMS

<u>Paygrade</u> F4	<u>Task Type</u> CORE	Task Statements Launch Expendable Bathythermog	Skills	<u>Abilities</u>
D.	CORE	Edulien Expenduole Bunymermog	Coordination	Inductive Reasoning
			Equipment Selection	Finger Dexterity
E4	CORE	Make tow point changes	-4··4······	
		1 0	Critical Thinking	Deductive Reasoning
			Judgment and Decision Making	Inductive Reasoning
E4	CORE	Operate active sonar systems		
			Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Operate computer and peripheral s	•	
			Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Operate depth sounding systems		
			Equipment Selection	Control Precision
	~~~		Operation and Control	Deductive Reasoning
E4	CORE	Operate environmental range pred	•	
			Equipment Selection	Control Precision
<b>7.</b> 4	CORE		Operation and Control	Deductive Reasoning
E4	CORE	Operate informational display syst		a
			Equipment Selection	Control Precision
E4	CODE		Operation and Control	Deductive Reasoning
E4	CORE	Operate passive sonar systems	Facility of Calassian	Control Bossision
			Equipment Selection	Control Precision
E4	CORE	Operate tactical display systems	Operation and Control	Deductive Reasoning
L/4	COKE	Operate tactical display systems	Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Prepare active sonobuoys for deple		Deductive Reasoning
E/4	COKE	Frepare active sollobuoys for depic	Coordination	Deductive Reasoning
			Equipment Selection	Manual Dexterity
E4	CORE	Prepare passive sonobuoys for dep		таниа Беленіу
D.	CORE	Trepare passive sollowarys for dep	Coordination	Deductive Reasoning
			Equipment Selection	Manual Dexterity
E4	CORE	Prepare towed array equipment	1	= 20000, 00,
			Coordination	Deductive Reasoning
			Equipment Selection	Manual Dexterity
E4	CORE	Prepare towed array for deploymen		
			Coordination	Deductive Reasoning
			Equipment Selection	Manual Dexterity
E4	CORE	Recover towed array	• •	,
		•	Coordination	Deductive Reasoning
			Operation and Control	Manual Dexterity
E4	CORE	Stream towed array		
			Coordination	Deductive Reasoning
			Operation and Control	Manual Dexterity

# UNDERWATER ANALYSIS

<u>Paygrade</u> F4	<u>Task Type</u> CORE	<u>Task Statements</u> Analyze acoustic recording data	<u>Skills</u>	<u>Abilities</u>
2.	00112	r many ze accusace recording dama	Complex Problem Solving Mathematics	Mathematical Reasoning Deductive Reasoning
E4	CORE	Analyze Expendable Bathythermo	Complex Problem Solving	Written Comprehension
E4	CORE	Analyze oceanographic and meteo	2	Deductive Reasoning
E4	CORE	Annotate Contacts of Interest (CO	Complex Problem Solving Science D	Written Comprehension Deductive Reasoning
2.	COLL	· minimum estimates of minimum (est	Complex Problem Solving Writing	Written Comprehension Written Expression
E4	CORE	Collect acoustic intelligence data	Ţ	•
			Monitoring Reading Comprehension	Deductive Reasoning Wrist-Finger Speed
E4	CORE	Determine bottom loss	Committee Burghlam Colorina	D. J. din B. manin
			Complex Problem Solving Mathematics	Deductive Reasoning Mathematical Reasoning
E4	CORE	Determine initial contact classifica		
F.4	CODE	<b></b>	Complex Problem Solving Judgment and Decision Making	Deductive Reasoning Information Ordering
E4	CORE	Determine real time sound propag	ation changes  Complex Problem Solving	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Determine sound propagation		O
			Complex Problem Solving Mathematics	Deductive Reasoning Mathematical Reasoning
E4	CORE	Identify biological effects on acou		
			Judgment and Decision Making Complex Problem Solving	Deductive Reasoning Perceptual Speed
E4	CORE	Identify broadband traces	Ludomont and Doninian Making	Dodustino Bossonino
E4	CORE	Identify environmental effects on	Judgment and Decision Making Complex Problem Solving	Deductive Reasoning Perceptual Speed
124	COKE	identity environmental effects on	Judgment and Decision Making	Deductive Reasoning
			Complex Problem Solving	Perceptual Speed
E4	CORE	Identify narrowband tonals		D. L. d. D.
			Judgment and Decision Making Complex Problem Solving	Deductive Reasoning Perceptual Speed
E4	CORE	Identify sources of self noise	Complex 1 roblem Solving	1 стеериин эреси
		•	Judgment and Decision Making	Deductive Reasoning
E4	CORE	Obtain turn counts and shaft Revo	Complex Problem Solving lutions Per Minute (RPM)	Perceptual Speed
<b></b> ·	20		Complex Problem Solving	Deductive Reasoning
			Mathematics	Mathematical Reasoning
E4	CORE	Review acoustic intelligence docu		W. w. C. I
			Reading Comprehension Active Learning	Written Comprehension Selective Attention

# WATCH TEAM OPERATIONS

<b>Paygrade</b>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	JSPEC	Align systems to Commanding Of	fficer's (CO) tactical orders	
			Coordination	Deductive Reasoning
			Operation and Control	Problem Sensitivity
E4	CORE	Configure systems for normal ope	erations	
			Equipment Selection	Information Ordering
			Operation and Control	Written Comprehension
E4	CORE	Configure systems for training op	erations	•
			Equipment Selection	Information Ordering
			Operation and Control	Written Comprehension
E4	JSPEC	Execute Commanding Officer's (C	CO) tactical orders	•
			Management of Material Resources	Deductive Reasoning
			Reading Comprehension	Speed of Closure

E4	CORE	Execute sonar doctrine		
			Coordination	Deductive Reasoning
			Critical Thinking	Inductive Reasoning
E4	JSPEC	Execute warfare commander's inte	ntions	
			Management of Material Resources	Deductive Reasoning
			Reading Comprehension	Speed of Closure
E4	CORE	Manage database information		
			Critical Thinking	Deductive Reasoning
			Management of Material Resources	Written Comprehension
E4	CORE	Monitor assignment and engageme	ent status of own ships weapons systems	
			Monitoring	Problem Sensitivity
			Active Learning	Inductive Reasoning
E4	CORE	Operate Command, Control, Comp	outer, Communication, and Intelligence (C	C4I) systems
			Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Prepare sonar control for special e	volutions	
			Coordination	Deductive Reasoning
			Equipment Selection	Manual Dexterity
E4	CORE	Review combat systems equipmen	t status	
			Operation Monitoring	Written Comprehension
			Systems Evaluation	Selective Attention
E4	CORE	Review tactical operations data		
			Reading Comprehension	Written Comprehension
			Active Learning	Selective Attention
E4	CORE	Review threat weapons data		
			Reading Comprehension	Written Comprehension
			Active Learning	Selective Attention
E4	CORE	Review watch-related operation re	ferences	
			Reading Comprehension	Written Comprehension
			Active Learning	Selective Attention
E4	CORE	Update plotting and status boards		
			Reading Comprehension	Arm-Hand Steadiness
			Operation and Control	Written Expression
E4	CORE	Verify equipment alignment accor-	ding to Emission Control (EMCON) plan	
			Quality Control Analysis	Information Ordering
			Systems Analysis	Written Comprehension

Job Code 003748

# **Anti-Submarine Warfare Equipment Technician**

NOC 4900-2094.00 Short Title (30 Characters) ASW EQUIPMENT TECHNICIAN <u>Job Family</u> Installation, Maintenance, and Repair Short Title (10 Characters) ASW EQ TEC

<u>Career Field</u> STG Pay Plan **Proficiency Level** 

Other Relationships and Rules: 0402, 0455, 0510, 0476, 0469, 0522, 0479, 0509, 0415, 0506 Enlisted

### **Job Description**

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

### O\*NET Relationship **DoD Relationship**

Name and Family Code: Title and Group: Code and Area: Title and SOC Code: Sonar, General 113000 Electrical and Electronics Repairers, Installation, Maintenance, and 113 11 Commercial and Industrial Equipment Repair 49-2094.00

### **AUXILIARY AND SUPPORT SYSTEMS**

<u>Paygrade</u>	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Configure sonar dome pressurizati		n I d' n d'
			Equipment Selection	Deductive Reasoning
E4	CORE	Dorform internal communications	Equipment Maintenance	Manual Dexterity
£4	CORE		(Internal Voice Communication Systems (	(IVCS), verbai
		communications, and sound-power	Active Listening	Speech Recognition
			Speaking	Speech Clarity
E4	CORE	Perform preventive maintenance of	on auxiliary air and cooling water systems	speech Clarity
L4	CORL	Terrorm preventive maintenance o	Equipment Maintenance	Written Comprehension
			Reading Comprehension	Control Precision
E4	CORE	Perform preventive maintenance o	on sonar dome pressurization systems	Control Precision
E.	CORL	Torrorm preventive maintenance o	Equipment Maintenance	Written Comprehension
			Reading Comprehension	Control Precision
E4	CORE	Perform preventive maintenance o		Common Freedom
2.	COLL	remarke managers	Equipment Maintenance	Written Comprehension
			Reading Comprehension	Control Precision
E4	CORE	Perform preventive maintenance o	on underwater communication systems	
		<u>r</u>	Equipment Maintenance	Written Comprehension
			Reading Comprehension	Control Precision
E4	CORE	Repair auxiliary air and cooling wa		
		1 2	Systems Evaluation	Problem Sensitivity
			Repairing	Manual Dexterity
E4	CORE	Repair sonar dome pressurization		•
		•	Systems Evaluation	Problem Sensitivity
			Repairing	Manual Dexterity
E4	CORE	Repair torpedo countermeasure sys	stems	
			Systems Evaluation	Problem Sensitivity
			Repairing	Manual Dexterity
E4	CORE	Repair underwater communication		
			Systems Evaluation	Problem Sensitivity
			Repairing	Manual Dexterity
E4	CORE	Test auxiliary air and cooling water		
			Quality Control Analysis	Inductive Reasoning
			Operation Monitoring	Manual Dexterity
E4	CORE	Test sonar dome pressurization sys		
			Quality Control Analysis	Inductive Reasoning
F.4	CORE	<b>T</b>	Operation Monitoring	Manual Dexterity
E4	CORE	Test torpedo countermeasure syste		
			Quality Control Analysis	Inductive Reasoning
E4	CORE	Test underweter communication a	Operation Monitoring	Manual Dexterity
£4	CORE	Test underwater communication sy		Auditam Attention
			Quality Control Analysis Operation Monitoring	Auditory Attention Hearing Sensitivity
F4	CORE	Troubleshoot auxiliary air and coo		me sensuivily
LT	CORL	110doleshoot auxiliary arr and coo	Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
			Tronoiesnooning	Deductive Reasoning

E4	CORE	Troubleshoot sonar dome pressurization systems		
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot torpedo countermeas	sure systems	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot underwater commun	ication systems	
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning

# EQUIPMENT ADMINISTRATION

<u>Paygrade</u> F4	<u>Task Type</u> CORE	Task Statements Collect equipment and system stat	<u>Skills</u> us data	<u>Abilities</u>
L	CORE	Concer equipment and system state	Systems Evaluation Operation Monitoring	Information Ordering Written Expression
E4	CORE	Document equipment status	Operation Monitoring	Information Ordering
E4	CORE	Inspect work areas, tools, and elec	Writing tronic systems equipment Management of Material Resources	Written Expression Information Ordering
E4	CORE	Inventory controlled equipment	Quality Control Analysis	Manual Dexterity
E4	CORE	Inventory Maintenance Assistance	Management of Material Resources Reading Comprehension Modules (MAM)	Information Ordering Written Expression
			Management of Material Resources Reading Comprehension	Information Ordering Written Expression
E5	CORE	Inventory network software and fi	rmware Management of Material Resources Reading Comprehension	Information Ordering Written Expression
E5	CORE	Maintain password accounts	Management of Material Resources	Deductive Reasoning
E5	JSPEC	Monitor contractor installations	Writing	Information Ordering
E5	CORE	Monitor for network vulnerabilitie	Quality Control Analysis Operation Monitoring	Problem Sensitivity Inductive Reasoning
ES	CORE	Worldon for network vulnerabilities	Systems Evaluation Operation Monitoring	Problem Sensitivity Selective Attention
E4	CORE	Perform preventive maintenance o	on network systems Equipment Maintenance	Written Comprehension
E4	CORE	Repair network systems	Reading Comprehension  Systems Evaluation	Control Precision
E5	CORE	Review technical briefs, notices ar	Repairing	Problem Sensitivity Manual Dexterity
			Reading Comprehension Active Learning	Written Comprehension Selective Attention
E5	CORE	Supervise controlled equipment in	ventories Quality Control Analysis Monitoring	Problem Sensitivity Oral Expression
E5	CORE	Supervise equipment and system le	evel preventive maintenance  Management of Personnel	Problem Sensitivity
E5	CORE	Supervise Maintenance Assistance	Monitoring  Modules (MAM) usage  Management of Material Resources	Oral Expression
E4	CORE	Test network systems	Monitoring	Problem Sensitivity Oral Expression
		·	Quality Control Analysis Operation Monitoring	Inductive Reasoning Manual Dexterity
E4	CORE	Troubleshoot network systems	Complex Problem Solving	Problem Sensitivity
E5	CORE	Update network software	Troubleshooting  Reading Comprehension  Systems Analysis	Deductive Reasoning Written Expression Written Comprehension

# SONAR SYSTEMS

Core	<u>Paygrade</u> E4	<u>Task Type</u> CORE	Task Statements Perform preventive maintenance o	Skills n active sonar systems	<u>Abilities</u>
E4 CORE Perform preventive maintenance on computer and peripheral systems Equipment Maintenance Control Precision Reading Comprehension Reading Systems Equipment Maintenance Reading Systems Equipment Maintenance Reading Comprehension Reading Repairing Manual Desterrity Repairing Manual Desterrity Repairing Manual Desterrity Manual Desterrity Repairing Manual Desterrity Manual Desterrity Repairing Manual Desterrity Manual Desterr			<b>r</b>	Critical Thinking	
Reading Comprehension CORE Perform preventive maintenance on depth sounding systems Equipment Maintenance Reading Comprehension Control Precision Reading Comprehension Repairing Repairing Repairing Problem Sensitivity Repairing Repair	E4	CORE	Perform preventive maintenance of		Manual Dexterity
CORE   Perform preventive maintenance on depth sounding systems   Equipment Maintenance   Control Precision   Equipment Maintenance   Control Precision   Equipment Maintenance   Control Precision   Equipment Maintenance   Control Precision   Co			•	• •	
Equipment Maintenance Reading Comprehension Control Precision  Equipment Maintenance Written Comprehension  Equipment Maintenance Control Precision  Equipment Maintenance Control Precision  Equipment Maintenance Written Comprehension  Equipment Maintenance Control Precision  Equipment Maintenance Control Precision  Equipment Maintenance Control Maintenance Mritten Comprehension  Equipment Maintenance Control Maintenanc	E4	CORE	Perform preventive maintenance o		Control Precision
E4 CORE Perform preventive maintenance on environmental range prediction systems Equipment Maintenance Equipment Maintenance Equipment Maintenance Reading Comprehension Control Precision  E4 CORE Perform preventive maintenance on Lotical display systems Equipment Maintenance Equipment Maintenance Reading Comprehension Repair of Problem Sensitivity Repairing Repairing  E4 CORE Repair computer and peripheral systems Repairing E5 Repair computer and peripheral systems Repairing E6 CORE Repair environmental range prediction systems E7 Systems Evaluation Repairing E7 Repair environmental range prediction systems E8 Systems Evaluation Repairing E8 CORE Repair passive sonar systems E9 Repair factical display systems E9 Repair factical display systems E9 Repair factical display systems E9 Repairing E9 CORE E1 Test active sonar systems E9 Repairing E9 Repair factical display systems E9 Repairing			•	Equipment Maintenance	-
Equipment Maintenance Reading Comprehension  Equipment Maintenance on passive sonar systems  Equipment Maintenance Reading Comprehension  Equipment Maintenance Reading Systems  Equipment Maintenance Reading Comprehension  Equipment Maintenance Reading Problem Sensitivity  Equipment Maintenance Reading Systems  Equipment Maintenance Reading Systems  Equipment Maintenance Reading Systems  Equipment Maintenance Reading Systems Evaluation  Equipment Maintenance Reading Systems  Equipment Maintenance Reading Systems Evaluation  Equipment Ma	E4	CORE	Perform preventive maintenance o		
E4 CORE Perform preventive maintenance on passive sonar systems Equipment Maintenance Reading Comprehension Requiring Repairing Re			1	Equipment Maintenance	Written Comprehension
E4 CORE Perform preventive maintenance on uscical display systems Equipment Maintenance on uscical display systems Equipment Maintenance on towed array handling systems Equipment Maintenance on towed array handling systems (Control Precision Control Precision Reading Comprehension Control Precision (Control Precision (Control Precision (Control Precision Reading Comprehension (Control Precision	F4	CORE	Perform preventive maintenance of		Control Precision
E4 CORE Perform preventive maintenance on tactical display systems Equipment Maintenance Reading Comprehension Reading Comprehension Control Precision  E4 CORE Perform preventive maintenance on towed array handling systems Equipment Maintenance Reading Comprehension  E5 CORE Repair active sonar systems  E4 CORE Repair active sonar systems  E5 Repairing Manual Desterity  E6 CORE Repair computer and peripheral systems  E6 Systems Evaluation Problem Sensitivity  E6 CORE Repair depth sounding systems  E7 Systems Evaluation Problem Sensitivity  E6 CORE Repair environmental range prediction systems  E7 Systems Evaluation Problem Sensitivity  E8 CORE Repair environmental range prediction systems  E8 Systems Evaluation Problem Sensitivity  E8 CORE Repair passive sonar systems  E8 Systems Evaluation Problem Sensitivity  E8 CORE Repair tactical display systems  E8 Systems Evaluation Problem Sensitivity  E9 Repairing Manual Desterity  E9 CORE Repair tactical display systems  E9 Systems Evaluation Problem Sensitivity  E9 Repairing Manual Desterity  E9 CORE Repair towed array handling systems  E9 Systems Evaluation Problem Sensitivity  E9 Repair towed array handling systems  E9 Systems Evaluation Problem Sensitivity  E9 Repairing Manual Desterity  E9 CORE Repair towed array handling systems  E9 Systems Evaluation Problem Sensitivity  E9 CORE Repair towed array handling systems  E9 Systems Evaluation Problem Sensitivity  E9 CORE Test active sonar systems  E9 Operation Monitoring Deductive Reasoning Manual Desterity  E0 CORE Test computer and peripheral systems  E9 Quality Control Analysis Departion Monitoring Manual Desterity  E0 CORE Test environmental range prediction systems  E0 Quality Control Analysis Operation Monitoring Manual Desterity  E0 CORE Test environmental range prediction systems  E0 Quality Control Analysis Operation Monitoring Manual Desterity  E0 CORE Test environmental range prediction systems  E0 Quality Control Analysis Operation Monitoring Manual Desterity  E0 CORE Test tactical display systems  E0 Qua	E.	COLE	Terrorm preventive maintenance of		Written Comprehension
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Quality Control Analysis Inductive Reasoning				Operation Monitoring	_
	E4	CORE	Test towed array handling systems		Inductive Reasoning

CORE	Troubleshoot active sonar s	systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
CORE	Troubleshoot computer and	l peripheral systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
CORE	Troubleshoot depth soundir	ng systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
CORE	Troubleshoot environmenta	al range prediction systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
CORE	Troubleshoot passive sonar	systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
CORE	Troubleshoot tactical displa	ny systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
CORE	Troubleshoot towed array h	nandling systems	
		Complex Problem Solving	Problem Sensitivity
		Troubleshooting	Deductive Reasoning
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# TECHNICAL CORE FUNDAMENTALS

Paygrade	Task Type	Task Statements	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Align weapons and combat system		Control Burnisian
			Complex Problem Solving	Control Precision
E4	CORE	144:f41	Operation and Control	Manual Dexterity
E4	CORE	identify the effects of Electromagn	tetic Interference (EMI) and Radio Freque	•
			Complex Problem Solving	Inductive Reasoning
E4	JSPEC	Internat bloomints and shine down	Active Learning	Problem Sensitivity
£4	JSPEC	Interpret blueprints and ships draw	Troubleshooting	Inductive Reasoning
			ě.	· ·
E4	JSPEC	Interpret electronic schematics	Reading Comprehension	Written Comprehension
E/4	JSFEC	interpret electronic schematics	Troublashooting	Industina Pagganina
			Troubleshooting	Inductive Reasoning Written Comprehension
E4	JSPEC	Interpret mechanical drawings	Reading Comprehension	written Comprehension
E/4	JSFEC	interpret mechanical drawings	Troubleshooting	Inductive Reasoning
			Reading Comprehension	Written Comprehension
E4	JSPEC	Interpret plumbing and valve draw		written Comprehension
£4	JSFEC	interpret plumbing and varve draw	Troubleshooting	Inductive Reasoning
			Reading Comprehension	Written Comprehension
E4	JSPEC	Interpret technical manuals	Kedaing Comprehension	written Comprehension
L4	351 EC	interpret technical manuals	Troubleshooting	Inductive Reasoning
			Reading Comprehension	Written Comprehension
E4	CORE	Operate General Purpose Test Equ		written Comprehension
L4	COKE	Operate General Lurpose Test Equ	Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Operate Special Purpose Test Equi		Deductive Reasoning
124	COKE	Operate Special Lurpose Test Equi	Equipment Selection	Control Precision
			Operation and Control	Deductive Reasoning
E4	CORE	Perform basic soldering on electric		Deductive Reasoning
124	COKE	renorm basic soldering on electric	Repairing	Arm-Hand Steadiness
			Equipment Selection	Manual Dexterity
E4	CORE	Parform Combat Systems Operation	onal Sequencing System (CSOSS) procedu	2
L4	COKE	Terroriii Combat Systems Operatio	Reading Comprehension	Written Comprehension
			Systems Evaluation	Control Precision
E4	CORE	Parform Combat Systems Operation	onal Sequencing System (CSOSS) procedu	
124	COKE	1 errorm Combat Systems Operation	Reading Comprehension	Written Comprehension
			Systems Evaluation	Control Precision
E4	CORE	Parform Combat Systems Operation	onal Sequencing System (CSOSS) procedu	
L+	COKE	1 chomi Comoat Systems Operatio	Reading Comprehension	Written Comprehension
			Systems Analysis	Control Precision
			Systems Anatysis	Compos r recision

E4	CORE	Perform Combat Systems Operati equipment	onal Sequencing System (CSOSS) proced	lures to energize/de-energize
			Reading Comprehension	Written Comprehension
			Systems Analysis	Control Precision
E4	CORE	Perform corrosion prevention and		
			Equipment Maintenance	Arm-Hand Steadiness
			Equipment Selection	Stamina
E4	CORE	Perform digital logic numeric con		
			Mathematics	Mathematical Reasoning
F.4	CODE	D 6	Complex Problem Solving	Written Comprehension
E4	CORE	Perform preventive maintenance of	on fiber optic cables and connectors	Weitt on Community on sing
			Equipment Maintenance Reading Comprehension	Written Comprehension Control Precision
F4	CORE	Perform preventive maintenance	on interconnecting cables and connectors	Control 1 recision
LŦ	COKL	Terrorm preventive maintenance (	Equipment Maintenance	Written Comprehension
			Reading Comprehension	Control Precision
F4	CORE	Perform six step troubleshooting t		Common 1 recipion
2.	COLL	remain and step trade consoling t	Complex Problem Solving	Deductive Reasoning
			Troubleshooting	Problem Sensitivity
E4	CORE	Repair fiber optic cables and conn		,
			Systems Evaluation	Problem Sensitivity
			Repairing	Manual Dexterity
E4	CORE	Repair interconnecting cables and	connectors	
			Systems Evaluation	Problem Sensitivity
			Repairing	Manual Dexterity
E4	CORE	Test fiber optic cables and connec		
			Quality Control Analysis	Inductive Reasoning
E4	CODE	Tt :-ttiti	Operation Monitoring	Manual Dexterity
E4	CORE	Test interconnecting cables and co	Quality Control Analysis	In dusting Bassaning
			Operation Monitoring	Inductive Reasoning Manual Dexterity
E4	CORE	Troubleshoot valve systems	Operation Monitoring	тапиа Веленіу
L+	COKL	Troubleshoot varve systems	Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot Alternating Current		
		2	Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot digital circuits	ŭ .	Ţ.
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot Direct Current (DC)		
			Complex Problem Solving	Problem Sensitivity
<b>5</b> .4	CORE		Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot fiber optic cables an		P 11 G 11 1
			Complex Problem Solving	Problem Sensitivity
E4	CORE	Troubleshoot interconnecting cab	Troubleshooting	Deductive Reasoning
L/ <del>+</del>	CORE	Troubleshoot interconnecting cabl	Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
E4	CORE	Troubleshoot power supplies	1. ouoresiroums	Deductive Reasoning
			Complex Problem Solving	Problem Sensitivity
			Troubleshooting	Deductive Reasoning
			O .	3