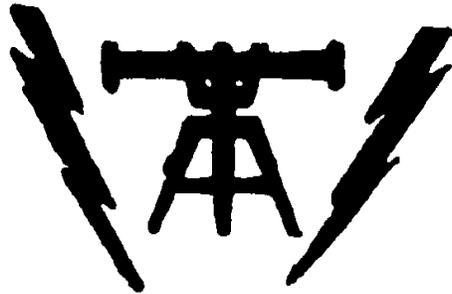


CHAPTER 34



FIRE CONTROLMAN (FC)

NAVPERS 18068-34A

CH-73

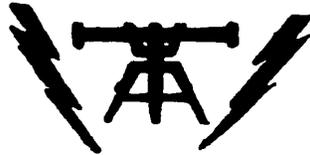
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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

FIRE CONTROLMAN (AEGIS) (FCA)



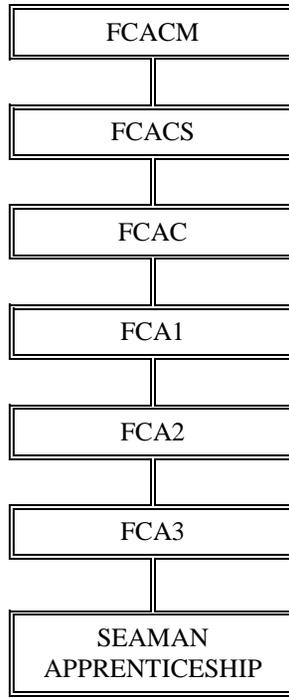
SCOPE OF RATING

Fire Controlmen (Aegis) (FCA) operate and maintain the Aegis Weapon System (AWS) and subsystems to include 3D radar, fire control systems, digital computer equipment and networking systems; provide weapon direction and system employment recommendations for anti-air, anti-surface, and ballistic missile defense; inspect, test, align, and repair Radio Frequency (RF) circuits, digital circuits, micro/minicomputers, peripheral equipment, network systems, data conversion units, data display equipment, data link terminal equipment, power conversion and auxiliary systems; perform detailed system analysis of computer programs, electronics, and electronic casualty control; operate built-in and associated external test equipment; load, initialize, and run diagnostics and testing routines for digital computer equipment, digital and analog systems and subsystems; and support the operation and maintenance of surface-to-air, surface-to-surface, and ballistic missile defense systems at the organizational and intermediate level.

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 34.

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
Aegis Fire Control Operator

Job Code
002770

Job Family
 Military Specific

NOC
 TBD

Short Title (30 Characters)
 AEGIS FIRE CONTROL OPERATOR

Short Title (14 Characters)
 AEGIS FC OPR

Pay Plan
 Enlisted

Career Field
 FCA

Other Relationships and Rules
 As assigned by job

Job Description

Aegis Fire Control Operators initialize, configure, operate, and collect data for weapons direction systems, radar systems, displays, and weapon consoles in both tactical and training environments; have a comprehensive knowledge of warfare fundamentals and the fire control problem; must be aware of the tactical and training environments in which they are operating; and provide weapon system employment.

DoD Relationship

O*NET Relationship

Group Title

DoD Code

Occupation Title

SOC Code

Job Family

Missile Guidance and Control

112100

Artillery and Missile Crew Members

55-3014.00

Military Specific

Skills

Operation and Control
Judgment and Decision Making
Critical Thinking
Operation Monitoring
Complex Problem Solving
Coordination
Active Learning
Quality Control Analysis
Reading Comprehension
Monitoring

Abilities

Deductive Reasoning
Control Precision
Inductive Reasoning
Written Comprehension
Information Ordering
Problem Sensitivity
Oral Expression
Speed of Closure
Selective Attention
Speech Clarity

AIR WARFARE (AW) OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze Air Defense (AD) intelligence data
E7	CORE	Assign air contact priorities
E6	CORE	Conduct Battle Damage Assessments (BDA) for air engagements
E7	CORE	Determine air contact classifications
E4	CORE	Evaluate air contact information
E4	CORE	Input Air Defense (AD) fire control parameters
E7	CORE	Manage battle group Air Defense (AD) operations
E4	CORE	Recommend Air Defense (AD) engagement tactics
E4	CORE	Report air contacts
E4	CORE	Report air engagement Battle Damage Assessments (BDA)
E4	CORE	Track air contacts
E4	CORE	Update air contact information

AUXILIARY AND SUPPORT SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure auxiliary air and cooling water systems
E4	CORE	Configure power conversion and distribution systems

BALLISTIC MISSILE DEFENSE (BMD) OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	NON-CORE	Analyze Ballistic Missile Defense (BMD) intelligence data
E7	NON-CORE	Assign space contact priorities
E7	NON-CORE	Classify space or ballistic contacts
E7	NON-CORE	Conduct Battle Damage Assessments (BDA) for Ballistic Missile Defense (BMD)
E7	NON-CORE	Coordinate Ballistic Missile Defense System (BMDS) asset implementation
E7	NON-CORE	Engage space contacts with Aegis Weapons System (AWS)
E4	NON-CORE	Evaluate space or ballistic contact information
E4	NON-CORE	Input Ballistic Missile Defense (BMD) fire control parameters
E4	NON-CORE	Input space contact priorities
E4	NON-CORE	Plan Ballistic Missile Defense (BMD) engagements
E4	NON-CORE	Report Ballistic Missile Defense (BMD) engagement Battle Damage Assessments (BDA)
E4	NON-CORE	Report space or ballistic contacts
E4	NON-CORE	Track space or ballistic contacts
E4	NON-CORE	Update space or ballistic contact information

EQUIPMENT ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Analyze combat systems equipment status
E4	CORE	Maintain system status logs
E4	CORE	Safeguard classified material
E5	CORE	Verify installation, testing, and alterations of equipment

FIRE CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align radar system
E4	CORE	Configure internal communications network
E4	CORE	Configure missile delivery systems
E4	CORE	Configure network systems
E4	CORE	Configure radar systems
E5	CORE	Manage tactical data recordings (e.g., data extraction, data reduction)
E4	CORE	Record tactical data (e.g., digital media)
E4	CORE	Test synchros and servos
E4	CORE	Troubleshoot data links

NETWORK MANAGEMENT AND SECURITY

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	NON-CORE	Configure Line of Sight (LOS) tactical network
E4	CORE	Maintain network security
E4	NON-CORE	Test Line of Sight (LOS) tactical network

ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Supervise missile delivery systems loading and unloading

TACTICAL OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Analyze Surface Warfare (SUW) intelligence data
E6	CORE	Analyze tactical operations data
E7	CORE	Assign surface contact priorities
E4	NON-CORE	Calculate environmental range predictions
E4	CORE	Conduct ship self-defense with Aegis Weapons System (AWS)
E4	CORE	Configure systems to Commanding Officer's (CO) tactical orders
E7	CORE	Coordinate Combat Information Center (CIC) for special evolutions
E7	CORE	Direct execution of warfare commander's intentions
E7	CORE	Engage air/surface contacts with Aegis Weapons System (AWS)
E4	CORE	Evaluate surface contact information
E4	CORE	Execute Combat Information Center (CIC) doctrines
E4	CORE	Execute Commanding Officer's (CO) tactical orders
E7	CORE	Input weapons doctrine
E4	CORE	Recommend Air Defense (AD) search plans
E4	CORE	Recommend course corrections in support of tactical operations
E4	CORE	Set Emission Control (EMCON) conditions
E6	CORE	Supervise transition of Combat Systems (CS) between conditions of readiness
E4	CORE	Transition Aegis Weapons System (AWS) between conditions of readiness
E4	CORE	Validate engagement
E4	CORE	Verify assignment and engagement status of own ship's weapons systems

TECHNICAL CORE FUNDAMENTALS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure informational display systems
E4	CORE	Manage database information
E4	CORE	Test digital circuits
E4	CORE	Test Radio Frequency (RF) circuits

WATCH TEAM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze surface contacts
E4	CORE	Analyze threat weapons data
E5	CORE	Assign symbology to surface contacts
E4	CORE	Configure Combat Information Center (CIC) systems for special evolutions
E6	CORE	Coordinate Combat Systems (CS) training evolutions
E4	CORE	Interpret Naval messages
E4	CORE	Review watch-related operational references (e.g. Radar System Controller (RSC) handbook)
E4	CORE	Update plotting and status boards

Job Title**Aegis Fire Control Technician****Job Code****002771****Job Family**

Military Specific

NOC

TBD

Short Title (30 Characters)

AEGIS FIRE CONTROL TECHNICIAN

Short Title (14 Characters)

AEGIS FC TECH

Pay Plan

Enlisted

Career Field

FCA

Other Relationships and Rules

As assigned by job

Job Description

Aegis Fire Control Technicians maintain, troubleshoot, repair, and collect data for auxiliary equipment, network systems, computers, computer peripherals, displays, radar systems, shipboard optics, weapon and weapon delivery systems, and Micro-Miniature (2M) and fiber optics repair at the organizational and intermediate maintenance level; load and unload ordnance; operate and maintain ordnance handling equipment; and review and maintain system logs and records.

DoD RelationshipGroup Title

Missile Guidance and Control

DoD Code

112100

O*NET RelationshipOccupation Title

Artillery and Missile Crew Members

SOC Code

55-3014.00

Job Family

Military Specific

Skills*Quality Control Analysis**Operation Monitoring**Complex Problem Solving**Troubleshooting**Systems Evaluation**Repairing**Management of Material Resources**Operation and Control**Monitoring**Reading Comprehension***Abilities***Problem Sensitivity**Deductive Reasoning**Inductive Reasoning**Manual Dexterity**Written Comprehension**Information Ordering**Control Precision**Written Expression**Oral Expression**Arm-Hand Steadiness***AUXILIARY AND SUPPORT SYSTEMS****Paygrade****Task Type****Task Statements**

E4

CORE

Configure auxiliary air and cooling water systems

E4

CORE

Configure power conversion and distribution systems

E4

CORE

Repair auxiliary air and cooling water systems

E4

CORE

Repair power conversion and distribution systems

E4

CORE

Test auxiliary air and cooling water systems

E4

CORE

Test power conversion and distribution systems

E4

CORE

Troubleshoot auxiliary air and cooling water systems

E4

CORE

Troubleshoot power conversion and distribution systems

E4

CORE

Troubleshoot valves

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

E7

NON-CORE

Analyze blueprints and ships drawings

E4

CORE

Assess network for vulnerabilities

E4

NON-CORE

Calibrate gauges (e.g., temperature and pressure)

E4

CORE

Calibrate test equipment (e.g., power meter)

E4

CORE

Collect equipment and system status data

E4

CORE

Conduct Combat Systems Alignments (CSA)

E4

CORE

Conduct emergency destruction

E4

CORE

Document equipment status

EQUIPMENT ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Implement technical briefs, notices, and bulletins
E4	CORE	Inspect work areas, tools, and equipment
E4	CORE	Install equipment and alterations
E4	CORE	Inventory controlled equipment
E4	CORE	Inventory fire control system software and firmware
E4	CORE	Inventory fire control test equipment
E4	CORE	Inventory Maintenance Assistance Modules (MAM)
E5	CORE	Maintain fire control system password accounts
E5	CORE	Manage Maintenance Assistance Modules (MAM) usage
E4	CORE	Safeguard classified material
E5	CORE	Supervise controlled equipment inventories
E4	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise fire control system software and firmware installations and updates
E5	CORE	Supervise fire control test equipment inventories
E5	CORE	Supervise work center equipment and system configuration
E4	CORE	Update fire control system software and firmware
E5	CORE	Verify installation, testing, and alterations of equipment

FIRE CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align radar system
E5	CORE	Manage tactical data recordings (e.g., data extraction, data reduction)
E4	CORE	Record tactical data (e.g., digital media)
E4	CORE	Repair computer and peripheral systems
E4	CORE	Repair internal communications network
E4	CORE	Repair network systems
E4	CORE	Repair radar systems
E4	CORE	Repair Tactical Display Systems (TDS)
E4	CORE	Test computer and peripheral systems
E4	CORE	Test internal communications network
E4	CORE	Test missile delivery systems
E4	CORE	Test network systems
E4	CORE	Test radar systems
E4	CORE	Test synchros and servos
E4	CORE	Test Tactical Display Systems (TDS)
E4	CORE	Troubleshoot computer and peripheral systems
E4	CORE	Troubleshoot data links
E4	CORE	Troubleshoot electromechanical (synchros/servos) systems
E4	CORE	Troubleshoot internal communications network
E4	CORE	Troubleshoot missile delivery systems
E4	CORE	Troubleshoot network systems

FIRE CONTROL SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Troubleshoot radar systems
E4	CORE	Troubleshoot Tactical Display Systems (TDS)

NETWORK MANAGEMENT AND SECURITY

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	NON-CORE	Configure Line of Sight (LOS) tactical network
E4	CORE	Maintain network security
E4	NON-CORE	Repair Line of Sight (LOS) tactical network
E4	NON-CORE	Test Line of Sight (LOS) tactical network
E4	NON-CORE	Troubleshoot Line of Sight (LOS) tactical network
E4	NON-CORE	Update Line of Sight (LOS) tactical network software and firmware

ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Inspect ordnance
E7	CORE	Inspect ordnance containers
E7	CORE	Inspect ordnance magazines and lockers
E4	NON-CORE	Perform Material Handling Equipment (MHE) operations
E4	NON-CORE	Prepare ordnance for transporting
E7	CORE	Supervise ordnance inspections
E5	CORE	Supervise weapons casualty evolutions
E4	CORE	Unpack naval ordnance

TACTICAL OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Set Emission Control (EMCON) conditions
E4	CORE	Transition Aegis Weapons System (AWS) between conditions of readiness

TECHNICAL CORE FUNDAMENTALS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze schematics (i.e., ship's drawings, mechanical drawings, electronic schematics, etc.)
E4	CORE	Configure combat systems equipment
E4	CORE	Configure equipment to minimize Electromagnetic Interference (EMI)/Radio Frequency Interference (RFI)
E4	CORE	Interpret technical manuals
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 corrosion prevention and control procedures on fire control systems
E4	CORE	Provide technical support
E4	CORE	Repair Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Repair digital circuits

TECHNICAL CORE FUNDAMENTALS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Repair fiber optic cables and connectors
E4	CORE	Repair interconnecting cables and connectors
E4	CORE	Repair power supplies
E4	CORE	Repair Radio Frequency (RF) circuits
E4	CORE	Repair valves
E4	CORE	Solder electrical and electronic equipment
E4	CORE	Test Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Test communication systems
E4	CORE	Test digital circuits
E4	CORE	Test fiber optic cables and connectors
E4	CORE	Test interconnecting cables and connectors
E4	CORE	Test power supplies
E4	CORE	Test Radio Frequency (RF) circuits
E4	CORE	Test valves
E4	CORE	Troubleshoot Alternating Current (AC) circuits
E4	CORE	Troubleshoot Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Troubleshoot digital circuits
E4	CORE	Troubleshoot Direct Current (DC) circuits
E4	CORE	Troubleshoot fiber optic cables and connectors
E4	CORE	Troubleshoot interconnecting cables and connectors
E4	CORE	Troubleshoot power supplies
E4	CORE	Troubleshoot Radio Frequency (RF) circuits
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)

Job Title
Aegis Fire Control Administrator

Job Code
002772

Job Family
 Military Specific

NOC
 TBD

Short Title (30 Characters)
 AEGIS FIRE CONTROL ADMINSTRATR

Short Title (14 Characters)
 AEGIS FC ADMN

Pay Plan
 Enlisted

Career Field
 FCA

Other Relationships and Rules
 As assigned by job.

Job Description

Aegis Fire Control Administrators manage and supervise the operation and maintenance of weapons systems in both tactical and training environments; collect administrative data from various shipboard systems to maintain combat readiness; plan and evaluate weapon system exercises/engagements; manage personnel and training operations; and develop and conduct briefs/debriefs for Combat System evolutions.

DoD Relationship

Group Title
 Missile Guidance and Control

DoD Code
 112100

O*NET Relationship

Occupation Title
 Artillery and Missile Officers

SOC Code
 55-1014.00

Job Family
 Military Specific

Skills

Operation and Control

Management of Material Resources

Management of Personnel Resources

Systems Analysis

Critical Thinking

Quality Control Analysis

Complex Problem Solving

Coordination

Reading Comprehension

Active Learning

Abilities

Written Comprehension

Information Ordering

Oral Expression

Written Expression

Problem Sensitivity

Inductive Reasoning

Deductive Reasoning

Selective Attention

Originality

Fluency of Ideas

AIR WARFARE (AW) OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze Air Defense (AD) intelligence data
E7	CORE	Assign air contact priorities
E7	CORE	Manage battle group Air Defense (AD) operations
E7	CORE	Manage shipboard Air Defense (AD) operations
E4	CORE	Plan Air Defense (AD) engagements
E4	CORE	Recommend Air Defense (AD) search and engagement plans

BALLISTIC MISSILE DEFENSE (BMD) OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Coordinate Ballistic Missile Defense System (BMDS) asset implementation
E7	NON-CORE	Manage Ballistic Missile Defense (BMD) operations
E7	NON-CORE	Manage battle group Ballistic Missile Defense (BMD) operations
E4	NON-CORE	Plan Ballistic Missile Defense (BMD) engagements
E4	NON-CORE	Recommend Ballistic Missile Defense (BMD) engagement tactics
E4	NON-CORE	Recommend Ballistic Missile Defense (BMD) search and engagement plans

EQUIPMENT ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Approve equipment installations, testing, and alterations
E7	CORE	Approve installation, testing, and alterations of equipment
E5	NON-CORE	Audit fire control system password accounts
E5	CORE	Brief operational and situational status reports
E4	CORE	Conduct emergency destruction
E4	CORE	Document equipment status
E5	CORE	Draft procedural documents (i.e., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), and Departure From Specifications (DFS))
E4	CORE	Inventory controlled equipment
E4	CORE	Inventory fire control system software and firmware
E4	CORE	Inventory fire control test equipment
E4	CORE	Inventory Maintenance Assistance Modules (MAM)
E4	CORE	Maintain system status logs
E7	CORE	Manage Combat Systems Alignment (CSA) evolutions
E5	CORE	Manage controlled equipment
E7	CORE	Manage divisional equipment and system configuration
E7	CORE	Manage divisional maintenance operations
E6	CORE	Manage equipment Casualty Reporting (CASREP) process
E7	CORE	Manage equipment certifications and recertifications
E7	CORE	Manage fire control system password accounts
E7	CORE	Manage fire control system software and firmware operations
E5	CORE	Manage fire control test equipment
E4	CORE	Safeguard classified material
E5	CORE	Supervise controlled equipment inventories
E6	CORE	Supervise divisional equipment and system configuration
E6	CORE	Supervise divisional maintenance operations
E4	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise fire control test equipment inventories
E5	CORE	Supervise work center equipment and system configuration
E5	CORE	Supervise work center maintenance operations
E5	CORE	Verify installation, testing, and alterations of equipment
E6	CORE	Verify procedural documents (i.e., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), and Departure From Specifications (DFS))

FIRE CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Analyze fire control systems data
E5	CORE	Manage tactical data recordings (e.g., data extraction, data reduction)
E4	CORE	Record tactical data (e.g., digital media)

NETWORK MANAGEMENT AND SECURITY

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain network security
E7	CORE	Manage network security
E5	CORE	Supervise network security maintenance

ORDNANCE EVOLUTIONS AND MAGAZINE SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Coordinate weapons casualty evolutions
E4	CORE	Support missile delivery systems loading and unloading

TACTICAL OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Analyze Surface Warfare (SUW) intelligence data
E7	CORE	Assign surface contact priorities
E4	CORE	Brief tactical information
E7	CORE	Coordinate Combat Information Center (CIC) for special evolutions
E7	CORE	Coordinate transition of Combat Systems (CS) between conditions of readiness
E7	CORE	Draft Combat Information Center (CIC) doctrine
E7	CORE	Input weapons doctrine
E4	CORE	Research tactical information
E4	CORE	Review Combat Information Center (CIC) doctrine
E6	CORE	Supervise transition of Combat Systems (CS) between conditions of readiness
E5	CORE	Verify system configuration

TECHNICAL CORE FUNDAMENTALS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage safety programs and instructions (e.g., aloft, electrical equipment, etc.)
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)

WATCH TEAM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	NON-CORE	Analyze operational orders and pre-assigned fire mission messages
E7	CORE	Coordinate Combat Systems (CS) during casualty conditions
E6	CORE	Coordinate Combat Systems (CS) operations in port
E6	CORE	Coordinate Combat Systems (CS) training evolutions
E7	CORE	Manage Combat Information Center (CIC) doctrine statements
E7	CORE	Perform external communications (ship-to-ship, ship-to-shore)
E6	CORE	Supervise Combat Systems (CS) during casualty conditions
E6	CORE	Supervise Combat Systems (CS) technicians during special evolutions
E6	CORE	Supervise Combat Systems (CS) watch team
E6	CORE	Supervise Overall Combat Systems Operability Testing (OCSOT)