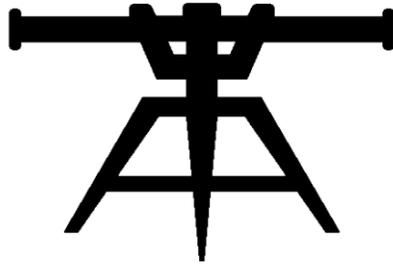


CHAPTER 37



FIRE CONTROL TECHNICIAN (FT)

NAVPERS 18068-37E

CH-62

Updated: April 2015

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

FIRE CONTROL TECHNICIAN (FT)



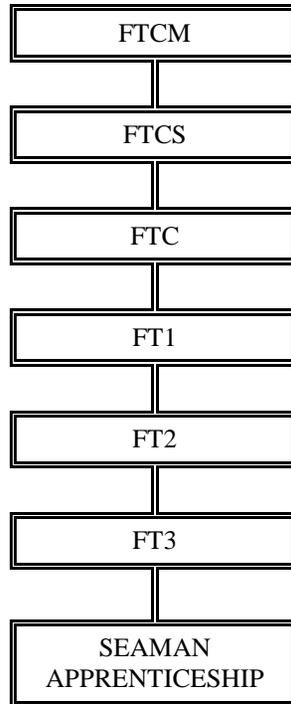
SCOPE OF RATING

Fire Control Technicians (FT) perform organizational and intermediate level maintenance on submarine combat control systems equipment, and associated combat control systems test equipment; operate submarine combat control systems; test submarine combat control systems; operate and maintain combat control systems associated systems; participate in weapons handling functions; and operate and maintain non-tactical computer systems and peripherals.

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 37.

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**Combat Control Systems Operator****Job Code****001232****Job Family**

Military Specific

NOC

TBD

Short Title (30 Characters)

COMBAT CONTROL SYSTEMS OP

Short Title (14 Characters)

CMBT CTRL OPER

Pay Plan

Enlisted

Career Field

FT

Other Relationships and Rules

NECs 1327, 1329

Job Description

Combat Control Systems Operators perform operations and basic preventive level maintenance on complex electronic, electrical, and mechanical submarine combat control equipment and associated systems; operate Command, Control, Communications, Computer, and Intelligence (C4I) systems and peripherals; and participate in weapons handling functions.

DoD Relationship**O*NET Relationship****Group Title**

Missile Guidance and Control

DoD Code

112100

Occupation Title

Military Enlisted Tactical Operations
and Air/Weapons Specialists
Crew Members

SOC Code

55-3019.00

Job Family

Military Specific

Skills

Operation and Control
Complex Problem Solving
Critical Thinking
Equipment Maintenance
Systems Analysis
Quality Control Analysis
Technology Design
Troubleshooting
Equipment Selection
Judgment and Decision Making

Abilities

Problem Sensitivity
Deductive Reasoning
Inductive Reasoning
Information Ordering
Written Comprehension
Mathematical Reasoning
Finger Dexterity
Control Precision
Category Flexibility
Number Facility

COMBAT CONTROL SYSTEM MAINTENANCE**Paygrade**

E4

Task Type

CORE

Task Statements

Adjust Combat Control Systems (CCS)

E4

CORE

Maintain Combat Control Systems (CCS)

E6

CORE

Manage Combat Control System (CCS) and Information Assurance (IA)
operational logs

COMBAT CONTROL SYSTEM OPERATIONS AND EMPLOYMENT**Paygrade**

E4

Task Type

NON-CORE

Task Statements

Construct fire control plots

E4

CORE

Employ Combat Control Systems (CCS)

E4

CORE

Initialize Combat Control Systems (CCS)

E4

CORE

Initialize Global Command and Control System-Maritime (GCCS-M)

E4

CORE

Maintain external countermeasure systems

E4

CORE

Manage Global Command and Control System-Maritime (GCCS-M) chart
modules

E4

CORE

Operate Global Command and Control System-Maritime (GCCS-M) chart
modules

E4

CORE

Operate sound silencing monitoring equipment

CONTACT MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Calculate contact geometries
E4	CORE	Correlate Electronic Surveillance (ES) systems data for contact management
E4	CORE	Correlate Automatic Identification Systems (AIS) data for contact management
E4	CORE	Correlate radar system data for contact management
E4	CORE	Correlate sonar systems data for contact management
E4	CORE	Correlate visual data for contact management
E4	CORE	Determine contact position using ranging techniques
E4	CORE	Develop contact solutions
E4	CORE	Interpret results of the different Target Motion Analysis (TMA) algorithms used during Combat Control Systems (CCS) target tracking
E4	CORE	Manage Contact Evaluation Plots (CEP)
E4	CORE	Manage fusion plots
E4	CORE	Manage geographic plots
E4	CORE	Manage Over-the-Horizon Targeting (OTH-T) data for contact management
E4	CORE	Manage time frequency plots
E4	CORE	Manage time range plots
E6	CORE	Operate periscopes for contact management
E4	CORE	Perform required contact reports
E4	CORE	Record combat control logs

INFORMATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Archive tactical systems
E4	CORE	Document system operating errors
E7	CORE	Implement security requirements for fire control systems and spaces
E4	CORE	Inventory removable media
E4	CORE	Maintain electrical/electronic cabling
E4	CORE	Maintain Information Assurance (IA) components
E4	CORE	Operate tactical computer systems
E4	CORE	Test computer systems

SUBMARINE-LAUNCHED WEAPONS EMPLOYMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Combat submarine weapons casualties
E4	NON-CORE	Conduct submarine-launched mine operations
E4	CORE	Conduct submarine-launched missile operations
E4	CORE	Conduct submarine-launched torpedo operations
E4	CORE	Interpret torpedo geometries
E4	CORE	Operate Vertical Launch Systems (VLS)
E4	CORE	Operate weapons delivery systems
E4	CORE	Perform weapons emergency procedures

SUBMARINE-LAUNCHED WEAPONS HANDLING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform weapons handling operations
E4	CORE	Test weapons handling systems

WEAPONS LAUNCH EQUIPMENT MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust external countermeasure systems
E4	CORE	Adjust three inch launcher systems
E4	CORE	Conduct submarine-launched countermeasure operations
E4	CORE	Maintain weapons handling systems
E4	CORE	Test external countermeasure systems
E4	CORE	Test internal countermeasure systems
E4	CORE	Test weapons launch equipment

Job Title**Combat Control Systems Technician****Job Code****001237****Job Family**

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

COMBAT CONTROL SYSTEMS TEC

Short Title (14 Characters)

CMBT CTRL TECH

Pay Plan

Enlisted

Career Field

FT

Other Relationships and Rules

NECs 11XX, 13XX, 27XX series, 4235, 4247

Job Description

Combat Control Systems Technicians perform advanced combat control system operations as well as apply advanced level maintenance practices to locate and correct malfunctions that are beyond organizational diagnostic routines on complex electronic, electrical, and mechanical submarine combat control equipment and multiple system interfaces; maintain Command, Control, Communications, Computer, and Intelligence (C4I) systems and peripherals; supervise operations, maintenance, and training for personnel within the combat control system division; and participate in weapons handling functions.

DoD Relationship**Group Title**

Missile Guidance and Control

DoD Code

112100

O*NET Relationship**Occupation Title**Electrical and Electronics Repairers,
Commercial and Industrial
Equipment**SOC Code**

49-2094.00

Job FamilyInstallation, Maintenance, and
Repair**Skills***Operation and Control**Troubleshooting**Repairing**Equipment Maintenance**Management of Material Resources**Installation**Complex Problem Solving**Equipment Selection**Quality Control Analysis**Judgment and Decision Making***Abilities***Problem Sensitivity**Deductive Reasoning**Inductive Reasoning**Finger Dexterity**Written Comprehension**Information Ordering**Control Precision***COMBAT CONTROL SYSTEM MAINTENANCE****Paygrade****Task Type****Task Statements**

E4

CORE

Adjust Combat Control Systems (CCS)

E6

CORE

Coordinate Combat Control System (CCS) maintenance

E4

CORE

Maintain Combat Control Systems (CCS) software

E5

CORE

Repair Combat Control Systems (CCS)

E5

CORE

Troubleshoot Combat Control Systems (CCS)

COMBAT CONTROL SYSTEM OPERATIONS AND EMPLOYMENT**Paygrade****Task Type****Task Statements**

E4

CORE

Initialize Combat Control Systems (CCS)

E4

CORE

Initialize Global Command and Control System-Maritime (GCCS-M)

E5

CORE

Manage Global Command and Control System-Maritime (GCCS-M)
administration modules

E5

CORE

Operate Global Command and Control System-Maritime (GCCS-M)
administration modules

INFORMATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Audit Information Assurance (IA) Systems
E5	CORE	Conduct Information Assurance (IA) posture shift operations
E5	CORE	Configure application software
E5	CORE	Configure communication port settings
E5	CORE	Configure Information Assurance (IA) servers
E5	CORE	Configure information security systems
E5	CORE	Configure print managers
E5	CORE	Configure Small Computer System Interface (SCSI) devices
E5	CORE	Configure workstation software
E6	CORE	Coordinate Information Assurance (IA) systems maintenance
E5	CORE	Employ Operating System commands (Linux, Unix)
E5	CORE	Establish remote network log-ins
E6	CORE	Establish user credentials
E6	NON-CORE	Groom Information Systems (IS)
E4	CORE	Install computer components
E4	CORE	Install network components
E5	CORE	Maintain Information Assurance (IA) records
E5	CORE	Repair computer cables
E5	CORE	Repair Information Assurance (IA) systems
E5	CORE	Sanitize virus-infected workstations
E5	CORE	Test fiber optic cables
E5	CORE	Troubleshoot communication line problems
E5	CORE	Troubleshoot fiber optic cables
E5	CORE	Troubleshoot Information Assurance (IA) systems

SUBMARINE-LAUNCHED WEAPONS EMPLOYMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Manage submarine-launched missiles
E5	CORE	Manage submarine-launched torpedoes

SUBMARINE-LAUNCHED WEAPONS HANDLING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform weapons transmission checks
E5	CORE	Repair weapons handling systems
E5	CORE	Troubleshoot weapons handling systems

WEAPONS LAUNCH EQUIPMENT MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust external countermeasure systems
E4	CORE	Adjust three inch launcher systems
E4	CORE	Adjust weapons handling systems
E4	CORE	Adjust weapons launch equipment
E6	CORE	Coordinate Weapons Launch Equipment (WLE) maintenance
E4	CORE	Maintain three inch launcher systems
E4	CORE	Maintain weapons launch equipment
E5	CORE	Repair external countermeasure systems
E5	CORE	Repair internal countermeasure systems
E5	CORE	Repair weapons launch equipment
E5	CORE	Troubleshoot external countermeasure systems
E5	CORE	Troubleshoot three inch launcher systems
E5	CORE	Troubleshoot weapons launch equipment

Job Title

Combat Control Systems Manager

Job Code

001242

Job Family

Military Specific

NOC

TBD

Short Title (30 Characters)

COMBAT CONTROL SYSTEMS MGR

Short Title (14 Characters)

CMBT CTRL MGR

Pay Plan

Enlisted

Career Field

FT

Other Relationships and Rules

NECs 11XX, 27XX series, 1328, 4235, 4247

Job Description

Combat Control Systems Managers manage Combat Systems division and department-level operations, maintenance, and training and supervise weapons employment and handling functions.

DoD Relationship

O*NET Relationship

Group Title

Missile Guidance and Control

DoD Code

112100

Occupation Title

First-Line Supervisors of All Other,
Tactical Operations Specialists

SOC Code

55-2013.00

Job Family

Military Specific

Skills

Management of Personnel Resources

Coordination

Operation and Control

Monitoring

Complex Problem Solving

Judgment and Decision Making

Management of Material Resources

Abilities

Oral Expression

Problem Sensitivity

Inductive Reasoning

Oral Comprehension

Category Flexibility

Deductive Reasoning

Information Ordering

COMBAT CONTROL SYSTEM MAINTENANCE

Paygrade

E7

Task Type

CORE

Task Statements

Coordinate Combat Control Systems (CCS) equipment modifications

COMBAT CONTROL SYSTEM OPERATIONS AND EMPLOYMENT

Paygrade

E7

Task Type

CORE

Task Statements

Manage submarine-launched countermeasures

CONTACT MANAGEMENT

Paygrade

E7

Task Type

CORE

Task Statements

Manage contact management teams

E7

CORE

Manage section tracking parties

INFORMATION SYSTEMS

Paygrade

E7

Task Type

CORE

Task Statements

Coordinate Information Assurance (IA) system posture transitions

E6

CORE

Establish network user profiles

E7

CORE

Implement Information Assurance (IA) policies

E7

CORE

Manage Information Assurance (IA) systems

SUBMARINE-LAUNCHED WEAPONS EMPLOYMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Employ submarine-launched mines
E7	CORE	Manage submarine weapons casualty procedures
E7	NONCORE	Supervise submarine-launched mine operations
E7	CORE	Supervise submarine-launched missile operations
E7	CORE	Supervise submarine-launched torpedo operations
E7	CORE	Supervise weapons emergency procedures

SUBMARINE-LAUNCHED WEAPONS HANDLING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage weapons handling operations
E7	CORE	Supervise ammunition and countermeasure transfers
E7	CORE	Supervise weapons handling operations