

CHAPTER 75



STEELWORKER (SW)

NAVPERS 18068-75E
CH-65

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Enclosure (1)

**TABLE OF CONTENTS
STEELWORKER (SW)**

SCOPE OF RATING	SW-3
GENERAL INFORMATION	SW-4
STEELWORKER	SW-5
ARC WELDING AND CUTTING	SW-5
CONSTRUCTION MANAGEMENT	SW-6
OXYGEN/GAS CUTTING AND WELDING	SW-7
REINFORCING STEEL (RST)	SW-7
SEABEE COMMON CORE	SW-7
SHEET METAL	SW-8
SPECIAL CONSTRUCTION	SW-8
UNDERWATER CONSTRUCTION	SW-8

NAVY ENLISTED OCCUPATIONAL STANDARD

FOR
STEELWORKER (SW)



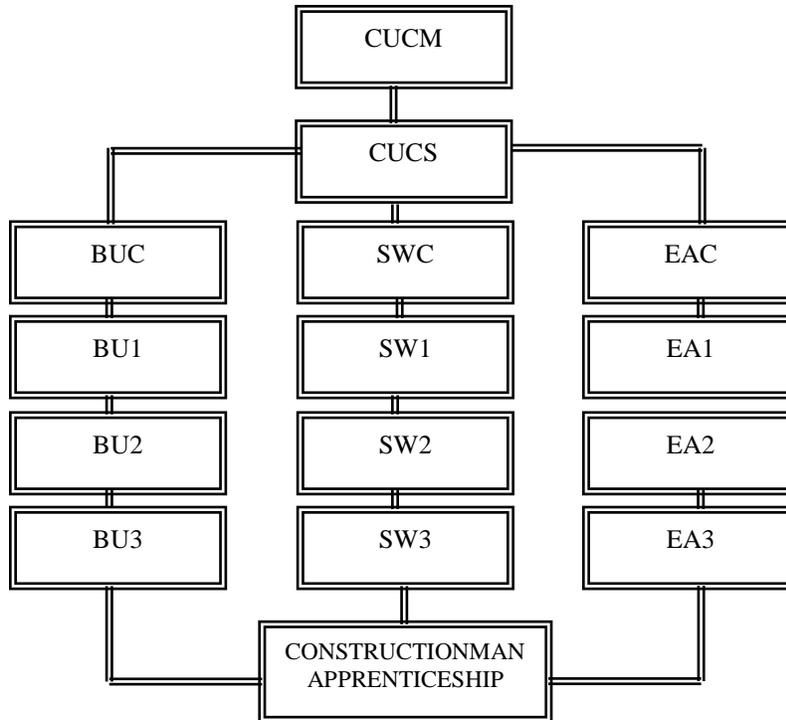
SCOPE OF RATING

Steelworkers (SW) perform tasks directly related to fabrication and erection of pre-engineered structures, including steel reinforcement; control job site, deployment of materials and equipment; direct and coordinate the composition, training, and efforts of crews who fabricate, assemble, erect, position, and join structural members and fabricated sections; perform various welding and cutting operations; maintain individual combat readiness; and perform tasks required in combat and disaster preparedness or recovery operations.

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) as Chapter 75.

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
Steelworker

Job Code
001770

Job Family
 Construction and Extraction

NOC
 TBD

Short Title (30 Characters)
 STEELWORKER

Short Title (14 Characters)
 STEELWORKER

Pay Plan
 Enlisted

Career Field
 SW

Other Relationships and Rules
 As assigned to Job

Job Description

Steelworkers perform tasks directly related to fabrication and erection of pre-engineered structures, including steel reinforcement; control job sites, deployment of materials, and equipment; direct and coordinate the composition, training, and efforts of crews who fabricate, assemble, erect, position, and join structural members and fabricated sections; perform various welding and cutting operations; and prepare progress reports, time records, construction schedules, material, labor, and tool and equipment estimates for construction projects. As project managers, they plan, staff, direct, and control multiple construction projects to include problem solving, planning, estimating, scheduling, cost control, and personnel management ensuring compliance with specifications, code requirements, plans, and contracts; and act as project supervisors and trainers for junior personnel.

DoD Relationship

Group Title
 Steelworking

DoD Code
 171100

O*NET Relationship

Occupation Title
 Structural Iron and Steel Workers

SOC Code
 47-2221.00

Job Family
 Construction and Extraction

Skills

- Critical Thinking
- Operation and Control
- Equipment Selection
- Quality Control Analysis
- Coordination
- Management of Material Resources
- Management of Personnel Resources
- Operation Monitoring
- Complex Problem Solving
- Judgment and Decision Making

Abilities

- Information Ordering
- Deductive Reasoning
- Oral Expression
- Control Precision
- Problem Sensitivity
- Visualization
- Manual Dexterity
- Inductive Reasoning
- Response Orientation
- Reaction Time

ARC WELDING AND CUTTING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Conduct wear facing and hard facing operations
E4	CORE	Cut ferrous and non-ferrous metals with plasma arc cutter
E4	CORE	Fabricate metal components
E4	CORE	Perform arc-welding operations in all positions
E5	CORE	Perform maintenance welding operations
E4	CORE	Perform metal stress relieving measures
E5	CORE	Perform nondestructive metal tests
E4	CORE	Prepare surfaces for welding
E5	CORE	Supervise metal component fabrications
E6	CORE	Supervise welding and cutting operations
E4	CORE	Weld ferrous and non-ferrous metals using Gas Tungsten Arc Welding (GTAW) process
E4	CORE	Weld ferrous and non-ferrous metals using Metal-Inert Gas (MIG) or Gas Metal Arc Welding (GMAW) process
E4	CORE	Weld ferrous and non-ferrous metals using Shielded Metal Arc Welding (SMAW) process

CONSTRUCTION MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Conduct three-phase quality control inspections
E4	CORE	Develop construction activity estimates
E5	CORE	Develop construction environmental protection plans
E5	CORE	Develop construction project packages
E5	CORE	Develop construction safety plans
E4	CORE	Develop construction sketches and diagrams
E5	CORE	Develop project three-phase quality control plans
E5	CORE	Establish construction site layouts
E4	CORE	Inspect construction materials
E6	CORE	Inspect construction projects
E4	NON-CORE	Interpret construction drawings and specifications
E4	CORE	Inventory project tools and materials
E5	CORE	Lead construction projects
E5	CORE	Maintain construction project resources
E5	CORE	Maintain facilities
E7	NON-CORE	Manage camp maintenance operations
E7	CORE	Manage construction environmental protection programs
E6	CORE	Manage construction project resources
E7	CORE	Manage construction projects
E7	CORE	Manage construction safety programs
E7	CORE	Manage facilities maintenance programs
E6	NON-CORE	Manage maintenance contracts
E7	CORE	Manage project quality control programs
E7	CORE	Manage three-phase quality control programs
E6	NON-CORE	Monitor construction project contracts
E5	CORE	Supervise construction project safety operations
E6	CORE	Supervise construction projects
E6	CORE	Supervise construction safety operations
E6	CORE	Supervise environmental protection programs
E6	CORE	Supervise facilities maintenance programs
E6	CORE	Supervise planning and estimating operations
E5	CORE	Supervise project three-phase quality control programs
E5	CORE	Turnover construction projects
E5	NON-CORE	Validate project surveys and elevation data

OXYGEN/GAS CUTTING AND WELDING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Bend pipes
E4	CORE	Conduct brazing operations
E4	CORE	Cut ferrous metals using oxygen/gas equipment
E4	CORE	Prepare metal joints for oxygen/gas welding and brazing process
E4	CORE	Prepare oxygen/gas equipment for cutting and welding
E4	CORE	Solder metals
E4	CORE	Weld metal joints using oxygen/gas process

REINFORCING STEEL (RST)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Bend reinforcing steel
E4	CORE	Create reinforcing steel bending schedules
E4	CORE	Fabricate reinforcing steel components
E4	CORE	Place reinforcing steel components
E5	CORE	Supervise reinforcing steel component fabrication and placement
E6	CORE	Validate reinforcing steel component fabrication and placement

SEABEE COMMON CORE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Apply combat life saving techniques
E4	CORE	Conduct Chemical, Biological, Radiological and Nuclear Explosive (CBRNE) defensive operations
E4	CORE	Conduct convoy operations
E4	CORE	Conduct Disaster Recovery Operations (DRO)
E4	CORE	Conduct embarkation and debarkation operations
E6	NON-CORE	Conduct Maritime Prepositioning Force (MPF) operations
E4	CORE	Conduct personal protection and decontamination operations
E4	CORE	Employ Advance Base Functional Component (ABFC) systems
E4	CORE	Employ grenades, mines, and pyrotechnics
E4	CORE	Employ land survival techniques
E4	NON-CORE	Maintain crew-served weapons
E4	CORE	Maintain field communications equipment
E4	CORE	Maintain Personal Gear Issue (PGI)
E4	CORE	Maintain small arms
E4	NON-CORE	Operate crew-served weapons
E4	CORE	Operate field communications equipment
E4	CORE	Operate small arms
E4	CORE	Patrol assigned areas
E7	CORE	Perform command and control of a company
E4	CORE	Perform command and control of a fire team

SEABEE COMMON CORE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Perform command and control of a platoon
E5	CORE	Perform command and control of a squad
E7	NON-CORE	Plan convoy operations
E4	CORE	Repair damaged airfields
E4	CORE	Set tactical defenses
E7	NON-CORE	Supervise Airfield Damage Repair (ADR) operations

SHEET METAL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Assemble advanced duct systems
E4	CORE	Assemble duct components
E5	CORE	Develop sheet metal patterns
E4	CORE	Fabricate sheet metal components
E4	CORE	Maintain sheet metal tools and equipment
E6	CORE	Supervise sheet metal component fabrication
E6	CORE	Validate sheet metal component installation

SPECIAL CONSTRUCTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	NON-CORE	Erect bridging systems
E5	CORE	Erect pre-engineered structures
E4	NON-CORE	Erect site fabricated structures using Ultimate Building Machine (UBM)
E7	CORE	Manage special construction assembly operations
E6	CORE	Supervise assembly of special construction operations

UNDERWATER CONSTRUCTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Conduct oceanographic surveys
E5	NON-CORE	Maintain diving equipment
E5	NON-CORE	Maintain diving support equipment
E7	NON-CORE	Manage demolition operations
E7	NON-CORE	Manage diving emergency procedures
E7	NON-CORE	Manage diving equipment maintenance
E7	NON-CORE	Manage diving support equipment maintenance
E7	NON-CORE	Manage light salvage operations
E7	NON-CORE	Manage Maritime Prepositioning Force (MPF) pre-offload operations
E7	NON-CORE	Manage Naval Sea Systems Command (NAVSEA) system certification programs
E7	NON-CORE	Manage oceanographic surveys
E7	NON-CORE	Manage Offshore Petroleum Distribution System (OPDS) operations
E7	NON-CORE	Manage Remote Operated Vehicle (ROV) operations
E7	NON-CORE	Manage small craft operations

UNDERWATER CONSTRUCTION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Manage underwater construction operations
E5	NON-CORE	Perform coxswain duties
E5	NON-CORE	Perform demolition operations
E5	NON-CORE	Perform diving emergency procedures
E5	NON-CORE	Perform diving operations
E5	NON-CORE	Perform light salvage operations
E5	NON-CORE	Perform Maritime Prepositioning Force (MPF) pre-offload operations
E5	NON-CORE	Perform Offshore Petroleum Distribution System (OPDS) operations
E5	NON-CORE	Perform Remote Operated Vehicle (ROV) operations
E5	NON-CORE	Perform small craft operations
E5	NON-CORE	Perform underwater construction operations
E6	NON-CORE	Supervise demolition operations
E6	NON-CORE	Supervise diving emergency procedures
E6	NON-CORE	Supervise diving equipment maintenance
E6	NON-CORE	Supervise diving operations
E6	NON-CORE	Supervise diving support equipment maintenance
E6	NON-CORE	Supervise light salvage operations
E6	NON-CORE	Supervise Maritime Prepositioning Force (MPF) pre-offload operations
E6	NON-CORE	Supervise Naval Sea Systems Command (NAVSEA) system certification program
E6	NON-CORE	Supervise oceanographic surveys
E6	NON-CORE	Supervise Offshore Petroleum Distribution System (OPDS) operations
E6	NON-CORE	Supervise Remote Operated Vehicle (ROV) operations
E6	NON-CORE	Supervise small craft operations
E6	NON-CORE	Supervise underwater construction operations