CHAPTER 77



UTILITIESMAN (UT)

NAVPERS 18068F-77H Change 100

Updated: October 2024

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FOR

UTILITIESMAN (UT)



SCOPE OF RATING

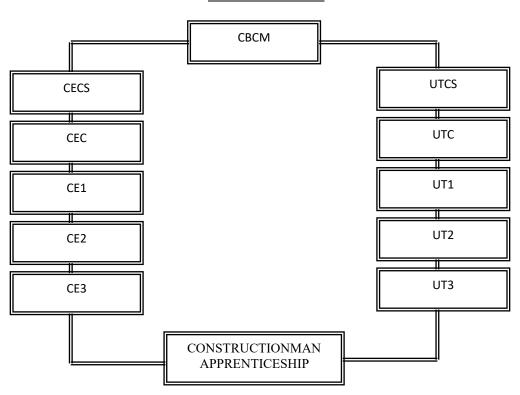
<u>Utilitiesmen (UT)</u> plan, supervise, manage, and perform tasks involved in installation, maintenance, and repair of plumbing, heating, steam, compressed air, fuel storage and distribution systems, water treatment and distribution systems, air conditioning and refrigeration equipment, and waste water management systems, as prescribed by blueprints, drawings and specifications; schedule and evaluate installation and operational tasks; prepare records and reports; maintain individual combat readiness; and perform tasks required in combat and disaster preparedness or recovery operations.

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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 77.

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.

^{*}Career path updated to reflect rating name change to Seabee Master Chief (CBCM) – NAVADMIN 054/21 refers

Job Title Utilitiesman Job Code 001797

Job FamilyNOCShort Title (30 Characters)Short Title (14 Characters)Construction and ExtractionTBDUTILITIESMANUTILITIESMAN

Pay Plan Career Field Other Relationships and Rules

Enlisted UT NEC BXXX series and other NECs as assigned

Job Description

Systems Analysis

Utilitiesmen (UT) plan, supervise, manage, and perform tasks involved in installation, maintenance, and repair of plumbing, heating, steam, compressed air, fuel storage and distribution systems, water treatment and distribution systems, air conditioning and refrigeration equipment, and waste water systems, as prescribed by blueprints, drawings and specifications; schedule and evaluate installation and operational tasks; prepare time records, progress reports, construction schedules, and material, labor, tool and equipment estimates for construction projects; act as project managers, staffing, directing, and controlling 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 function as a project supervisor and subject matter expert.

DoD Relationship O*NET Relationship

Group TitleDoD CodeOccupation TitleSOC CodeJob FamilyUtilities, General172000Plumbers, Pipefitters, and47-2152.00Construction and Extraction

Steamfitters

<u>Skills</u> <u>Abilities</u>

 Management of Material Resources
 Oral Expression

 Management of Personnel Resources
 Multi-limb Coordination

 Operation Monitoring
 Deductive Reasoning

 Repairing
 Inductive Reasoning

 Troubleshooting
 Problem Sensitivity

Equipment MaintenanceVisualizationEquipment SelectionInformation OrderingInstallationWritten ComprehensionReading ComprehensionWritten Expression

BOILERS

Manual Dexterity

Paygrade	Task Type	Task Statements
E4	CORE	Conduct boiler system operational checks
E4	CORE	Conduct corrective maintenance on boiler systems
E4	CORE	Conduct preventive maintenance on boiler systems
E6	NON-CORE	Develop sketches and diagrams for boiler supply and return systems
E4	CORE	Install boiler systems
E4	CORE	Interpret boiler blueprints and specifications
E7	NON-CORE	Manage boiler installation and maintenance operations
E6	NON-CORE	Supervise boiler installation and maintenance operations
E4	CORE	Troubleshoot boiler electrical system components

CONSTRUCTION MANAGEMENT

Paygrade	Task Type	Task Statements
E5	CORE	Conduct construction project turnovers
E6	NON-CORE	Conduct Three-Phase Quality Control inspections
E4	CORE	Develop construction activities
E4	CORE	Develop construction estimates
E5	CORE	Develop construction project packages
E4	CORE	Develop construction project sketches, diagrams, and shop drawings
E4	CORE	Develop construction safety plans

CONSTRUCTION MANAGEMENT (CONT'D)

<u>Paygrade</u> E4	<u>Task Type</u> CORE	Task Statements Develop environmental protection plans
E5	CORE	Develop master activities listing
E4	CORE	Develop project Three-Phase Quality Control plans
E5	CORE	Establish construction site layouts
E5	CORE	Input project data into construction management software and tools
E5	CORE	Inspect construction materials
E4	CORE	Interpret construction project blueprints and specifications
E4	CORE	Inventory project tools and materials
E5	CORE	Lead construction project crews
E7	CORE	Manage construction project resources
E7	CORE	Manage construction projects
E7	CORE	Manage construction safety plans
E7	CORE	Manage job site construction operations (e.g., Quality Control (QC) and safety plan implementation, job site information board, level III chart, etc.)
E7	CORE	Manage project Quality Control (QC) plans
E7	CORE	Manage Three-Phase Quality Control process
E6	CORE	Supervise construction project crews
E5	NON-CORE	Supervise construction project safety operations
E6	CORE	Supervise construction project turnovers
E5	CORE	Supervise environmental protection plans
E6	CORE	Supervise planning and estimating operations
E6	CORE	Supervise project Three-Phase Quality Control process
E6	CORE	Validate construction project packages
E6	NON-CORE	Validate construction project safety plans
E5	NON-CORE	Validate project surveys and elevation data
E5	NON-CORE	Verify construction project contract requirements
		EXPEDITIONARY CONSTRUCTION
<u>Paygrade</u> E5	<u>Task Type</u> NON-CORE	<u>Task Statements</u> Assess airfield damages (i.e., data collection)
E5	NON-CORE	Assess pier damages
E6	NON-CORE	Plan Airfield Damage Repairs (ADR) (e.g., operational length determination, repair quality criteria, operating surface selection, etc.)
E6	NON-CORE	Plan Pier Damage Repairs (PDR)
E4	NON-CORE	Repair damaged airfields (e.g., debris clearing, material staging, spall repair, crater repair, etc.)

Supervise Airfield Damage Repair (ADR) operations

Supervise Pier Damage Repairs (PDR)

Repair damaged piers

NON-CORE

NON-CORE

NON-CORE

E4

E7

E7

FACILITIES MANAGEMENT

Paygrade	Task Type	Task Statements
E4	CORE	Conduct facilities corrective maintenance
E4	CORE	Conduct facilities preventive maintenance
E5	CORE	Inspect facilities systems
E7	NON-CORE	Manage facilities maintenance contracts
E6	CORE	Manage facilities maintenance operations (e.g., Camp Maintenance, 3M, MAXIMO, etc.)
E5	NON-CORE	Perform sewage treatment plant operations
E5	NON-CORE	Perform water treatment plant operations
E5	CORE	Supervise facilities maintenance (e.g., Camp Maintenance, 3M, MAXIMO, etc.)

HEATING, VENTILATING, AIR CONDITIONING, AND REFRIGERATION (HVAC/R)

Paygrade	Task Type	Task Statements
E4	CORE	Conduct corrective maintenance on Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) systems
E4	CORE	Conduct Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) system operational checks
E4	CORE	Conduct preventive maintenance on Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) systems
E5	NON-CORE	Develop sketches and diagrams for Heating, Ventilating, Air Conditioning, and Refrigeration (HVAC/R) systems
E4	CORE	Install Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) systems
E4	CORE	Interpret Heating, Ventilating, Air Conditioning, and Refrigeration (HVAC/R) blueprints and specifications
E7	CORE	Manage Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) installation and maintenance
E6	CORE	Supervise Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) installation and maintenance
E4	CORE	Troubleshoot Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) electrical system components

PLUMBING

Paygrade	Task Type	Task Statements
E4	CORE	Conduct corrective maintenance on Drain Waste Vent (DWV) systems
E4	CORE	Conduct corrective maintenance on sewer systems
E4	CORE	Conduct corrective maintenance on storm water drainage systems
E4	CORE	Conduct corrective maintenance on water distribution systems
E4	CORE	Conduct preventive maintenance on sewer systems
E4	CORE	Conduct preventive maintenance on storm water drainage systems
E4	CORE	Conduct preventive maintenance on water distribution systems
E4	CORE	Develop sketches and diagrams for Drain Waste Vent (DWV) systems
E4	CORE	Develop sketches and diagrams for plumbing systems
E4	CORE	Establish plumbing system elevations
E4	CORE	Install Drain Waste Vent (DWV) systems
E4	CORE	Install sewer systems
E4	CORE	Install storm water drainage systems
		LIT 7

PLUMBING (CONT'D)

<u>Paygrade</u> E4	<u>Task Type</u> CORE	Task Statements Install water distribution systems and components
E4	CORE	Interpret plumbing blueprints and specifications
E4	CORE	Interpret sewer system blueprints and specifications
E7	CORE	Manage Drain Waste Vent (DWV) installation and maintenance operations
E7	CORE	Manage plumbing systems installation and maintenance operations
E6	CORE	Supervise Drain Waste Vent (DWV) installation and maintenance operations
E6	CORE	Supervise plumbing system installation and maintenance operations
		PUMPS AND COMPRESSED AIR SYSTEMS
<u>Paygrade</u> E4	<u>Task Type</u> CORE	<u>Task Statements</u> Conduct corrective maintenance on compressed air systems (i.e., general systems under 398 psi)
E4	CORE	Conduct corrective maintenance on pumps and compressors (i.e., general systems under 398 psi)
E4	CORE	Conduct preventive maintenance on compressed air systems (i.e., general systems under 398 psi)
E4	CORE	Conduct preventive maintenance on pumps and compressors (i.e., general systems under 398 psi)
E4	CORE	Develop sketches and diagrams for compressed air systems (i.e., general systems under 398 psi)
E4	CORE	Install compressed air systems (i.e., general systems under 398 psi)
E4	CORE	Install pumps and compressors (i.e., general systems under 398 psi)
E4	CORE	Interpret compressed air system blueprints and specifications (i.e., general systems under 398 psi)
E7	CORE	Manage compressed air systems installation and maintenance operations (i.e., general systems under 398 psi)
E7	CORE	Manage pumps and compressors installation and maintenance operations (i.e., general systems under 398 psi)
E6	CORE	Supervise compressed air systems installation and maintenance operations (i.e., general systems under 398 psi)
E6	CORE	Supervise pumps and compressors installation and maintenance operations (i.e., general systems under 398 psi)
		UTILITIES EQUIPMENT

Paygrade	Task Type	Task Statements
E4	NON-CORE	Conduct bulk fuel storage system operational checks
E4	NON-CORE	Conduct corrective maintenance on galley equipment
E4	CORE	Conduct corrective maintenance on laundry equipment
E4	CORE	Conduct corrective maintenance on shower systems
E4	NON-CORE	Conduct preventive maintenance on galley equipment
E4	CORE	Conduct preventive maintenance on laundry equipment
E4	CORE	Conduct preventive maintenance on shower systems
E4	NON-CORE	Install bulk fuel storage systems
E4	NON-CORE	Install galley equipment
E4	CORE	Install laundry equipment

UTILITIES EQUIPMENT (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Install shower systems
E7	NON-CORE	Manage bulk fuel storage installation and maintenance operations
E7	CORE	Manage utilities equipment installation and maintenance operations (e.g., laundry systems, shower systems, etc.)
E4	NON-CORE	Perform corrective maintenance on bulk fuel storage systems
E4	NON-CORE	Perform preventive maintenance on bulk fuel storage systems
E6	NON-CORE	Supervise bulk fuel storage installation and maintenance operations
E6	CORE	Supervise utilities equipment installation and maintenance operations (e.g., laundry systems, shower systems, etc.)

WASTE WATER SYSTEMS

Paygrade	Task Type	Task Statements
E4	CORE	Conduct corrective maintenance on waste water treatment systems
E4	CORE	Conduct preventive maintenance on waste water treatment systems
E4	CORE	Conduct waste water treatment system operational checks
E4	CORE	Develop sketches and diagrams for waste water systems
E4	CORE	Install waste water treatment systems
E4	CORE	Interpret waste water system blueprints and specifications
E7	CORE	Manage waste water treatment system installation and maintenance operations
E6	CORE	Supervise waste water treatment system installation and maintenance operations

WATER TREATMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct corrective maintenance on water treatment systems
E4	CORE	Conduct preventive maintenance on water treatment systems
E4	CORE	Conduct water treatment systems operational checks
E4	CORE	Install water treatment systems
E7	CORE	Manage water treatment system installation and maintenance operations
E5	CORE	Select water source locations
E6	CORE	Supervise water treatment system installation and maintenance operations