

STATION INSTALLER AND REPAIRER

RAPIDS: 0647D

O*NET/SOC: 49-2022.00

REVISION DATE: 10/2019

TRADE DESCRIPTION: Install, set-up, rearrange, or remove switching, distribution, routing, and dialing equipment used in central offices or headends. Service or repair telephone, cable television, internet, and other communications equipment on customers' property. May install communications equipment or communications wiring in buildings.

TASK PERFORMANCE: Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following skill areas. Actual work time must be recorded in the Work Experience Log; each skill area must be completed.

Applicable Ratings/MOS/NEC

USMC MOS: 0612, 0613, 0619, 0631, 2822, 2841, 2847

USCG: None

USN: IC

USA MOS: 25C, 25L, 25N

Related Instruction:

Trade related On-The-Job-Training (OJT) or Any trade related schools/courses totaling 288 or more hours.

Additional Requirement:

None

Total Hours: **4000**

Skill	Description	Hours
A	TEST AND EVALUATION	750

	<ul style="list-style-type: none"> -- Analyze test readings, computer printouts, and trouble reports to determine equipment repair needs and required repair methods. -- Inspect equipment on a regular basis to ensure proper functioning. -- Test connections to ensure that power supplies are adequate and that communications links function. -- Examine telephone transmission facilities to determine requirements for new or additional telephone services. -- Determine viability of sites through observation, and discuss site locations and construction requirements with customers. -- Measure distances from landmarks to identify exact installation sites for equipment. -- Test repaired, newly installed, or updated equipment to ensure that it functions properly and conforms to specifications, using test equipment and observation. -- Test circuits and components of malfunctioning telecommunications equipment to isolate sources of malfunctions, using test meters, circuit diagrams, polarity probes, and other hand tools. -- Collaborate with other workers to locate and correct malfunctions. 	
B	<p>INSTALLATION</p> <ul style="list-style-type: none"> -- Designate cables available for use. -- Review manufacturer's instructions, manuals, technical specifications, building permits, and ordinances to determine communication equipment requirements and procedures. -- Note differences in wire and cable colors so that work can be performed correctly. -- Assemble and install communication equipment such as data and telephone communication lines, wiring, switching equipment, wiring frames, power apparatus, computer systems, and networks. -- Install telephone station equipment, such as intercommunication systems, transmitters, receivers, relays, and ringers, and related apparatus, such as coin collectors, telephone booths, and switching-key equipment. -- Route and connect cables and lines to switches, switchboard equipment, and distributing frames, using wire-wrap guns or soldering irons to connect wires to terminals. -- Run wires between components and to outside cable systems, connecting them to wires from telephone poles or underground cable accesses. -- Install updated software, and programs that maintain existing software or provide requested features such as time-correlated call routing. -- Remove loose wires and other debris after work is completed. 	500

	<ul style="list-style-type: none"> -- Climb poles and ladders, use truck-mounted booms, and enter areas such as manholes and cable vaults to install, maintain, or inspect equipment. -- Dig holes or trenches as necessary for equipment installation and access. -- Communicate with bases, using telephones or two-way radios to receive instructions or technical advice, or to report equipment status. 	
C	<p>SYSTEM SETUP</p> <ul style="list-style-type: none"> -- Program computerized switches and switchboards to provide requested features. -- Demonstrate equipment to customers and explain how it is to be used, and respond to any inquiries or complaints. -- Adjust or modify equipment to enhance equipment performance or to respond to customer requests. 	750
D	<p>REPAIR</p> <ul style="list-style-type: none"> -- Refer to manufacturers' manuals to obtain maintenance instructions pertaining to specific malfunctions. -- Repair or replace faulty equipment such as defective and damaged telephones, wires, switching components, and associated equipment. -- Remove and replace plug-in circuit equipment. -- Enter codes needed to correct electronic switching system programming. -- Diagnose and correct problems from remote locations, using special switchboards to find sources of problems. -- Remove and remake connections to change circuit layouts, following work orders or diagrams. -- Request support from technical service centers when on-site procedures fail to solve installation or maintenance problems. 	750
E	<p>MAINTENANCE</p> <ul style="list-style-type: none"> -- Perform routine maintenance on equipment, including adjusting and lubricating components, and painting worn or exposed areas. -- Clean switches and replace contact points, using vacuum hoses, solvents, and hand tools. 	750
F	<p>ADMINISTRATION/SAFETY/MISCELLANEOUS</p> <ul style="list-style-type: none"> -- Perform database verifications, using computers. -- Maintain computer and manual records pertaining to facilities and equipment. -- Clean and maintain tools, test equipment, and motor vehicles. 	500

	-- Address special issues or situations, such as illegal or unauthorized use of equipment, or cases of electrical or acoustic shock.	
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