

Work Processes Schedule

RADIO MECHANIC

RAPIDS: 0465M

O*NET/SOC: 49-2021.01

REVISION DATE: 12/2014

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 areas. Actual work time must be recorded in the Work Experience Log.

Applicable Ratings/MOS

USMC MOS 2831, 2832, 2833, 2834, 2841, 2844, 2846, 2847, 2848, 2862, 2881, 5939, 5954

USCG None

USN None

Related Instruction

Any trade related schools/courses totaling 432 or more hours.

Additional Requirement

None

Total Hours: **6000**

Skill	Description	Hours
A	<p>PROPER USE OF TOOLS, TEST INSTRUMENTS AND SCHEMATICS</p> <p>Develop skills in the use, care, and storage of hand tools and specialized trade tools. Utilize technical manuals and catalogs.</p>	300
B	<p>OPERATION OF COMMUNICATION EQUIPMENT</p> <p>AM, FM, SSB radio teletypewriter receivers and transmitters. Power Supplies.</p>	300
C	<p>INSPECTION/TROUBLESHOOTING OF COMMUNICATION EQUIPMENT</p> <p>Use basic circuit analysis and theory of operation on AM, FM, SSB and radio teletypewriter receivers and transmitters. Localize problem to assembly, subassembly and/or component. Isolate defective part or component visually and/or with test equipment. Utilize schematic wiring diagram and troubleshooting checklists or charts. Remove equipment from cabinet, cases or steel boxes as required to complete troubleshooting procedure of major component.</p>	1800
D	<p>REPAIR OF COMMUNICATION EQUIPMENT</p> <p>Replace defective part or major component. Repair or replace hocks, cords or cables as required. Clean and visually check AM, FM, SSB and radio teletypewriter receivers and transmitters after repair. Perform soldering and unsoldering on major components. Disassemble receivers and transmitters for repair of major components. Reassemble receivers and transmitters after completed repairs. Perform final test and alignment of radio system components.</p>	1200
	<p>INSTALLATION OF COMMUNICATION EQUIPMENT</p>	

E	Radio receivers. Radio transmitters. Power supplies. Public address sets. Cables and antennas. Test and align installed equipment for operational readiness as a part of the system.	900
F	<p>PREVENTIVE MAINTENANCE ON COMMUNICATION EQUIPMENT</p> <p>Apply clean up and preventive maintenance procedures on AM, FM, SSB and teletypewriter equipment. Maintain equipment maintenance records.</p>	900
G	<p>MISCELLANEOUS AND SAFET</p> <p>Employ safety practices related to each operation being performed. Apply first aid as required on the job.</p>	600