

Work Processes Schedule

TELEVISION-AND-RADIO REPAIRER (ANY INDUSTRY)

RAPIDS: 0565N

O*NET/SOC: 49-2097.00

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 None

USCG None

USN IC

Related Instruction

Any trade related schools/courses totaling 576 hours.

Additional Requirement

None

Total Hours: **8000**

Skill	Description	Hours
A	<p>PROPER USE OF SHOP, WORK BENCHES, TOOLS AND EQUIPMENT</p> <p>Care of shop for general appearance and safety of personnel. Proper soldering and splicing techniques. Making out job records, keeping project on work books, and time cards.</p>	300
B	<p>ELECTRICAL COMPONENTS, TOOLS AND EQUIPMENT</p> <p>Resistor, wire wound, composition. Capacitors; electrolytic, paper, mica. Transformers; all types. Transducers; electro-mechanical and electro-acoustic types. Electron vacuum tubes; all types. All types of components used in the electronic field. Wire types and gauges.</p>	300
C	<p>INSTALLATION, REMOVAL AND REPAIR</p> <p>Install, remove and repair of all types of electrical and electronic equipment from their enclosures, such as; radio cabinets, television cabinets, steel boxes, safety cabinets and others.</p>	400
D	<p>SAFETY</p> <p>Perform proper safety precautions in handling safety devices and discharges of high voltage capacitors.</p>	100
E	<p>TESTING AND REPAIRING ELECTROMATIC EQUIPMENT</p> <p>Motor generator and control equipment (electrical and electronic). Rectifiers, sound amplifier equipment inter-communication systems, direction finders, antenna systems, speech recording equipment (all types-wire, record, tape type). Remote control device,</p>	1400

	modulating equipment, high frequency induction heating devices, electronic circuit analyzers, electrical filter assemblies, carrier level indicators, terminal boxes, thermo-electric generator, and calibration of high frequency precision measuring equipment.	
F	<p>OPERATING ELECTRONIC TESTING EQUIPMENT</p> <p>Ammeters, voltmeters, ohmmeters, and wattmeters; power factor indicators, capacitor-resistance-inductance bridges, and signal generators (AF and RF); vacuum tube voltmeters, oscilloscopes, meggers, resonance indicators, decade boxes, and electronic tube checkers.</p>	1400
G	<p>GENERAL LABORATORY TESTING</p> <p>Perform general laboratory testing of electrical and electronic components and assemblies, such as; wave filters, resistors, capacitors, vacuum tubes, chokes, transformers, potentiometers, rheostats, and rectifiers.</p>	400
H	<p>INSTALLATION OF POWER</p> <p>Perform installation of power necessary to operate equipment under construction, such as; high frequency induction heating equipment and high power rectifier systems, motors, generators, allied equipment, and battery charging systems.</p>	400
I	<p>ANTENNA INSTALLATIONS</p> <p>Install proper type of antenna to be used at different locations. Work on necessary transmission lines for antennas. Proper use of mechanical and electrical components for antenna installation. Adjust television and/or radio receivers for best performance.</p>	500
J	<p>SCHEMATICS</p> <p>Breakdown of a television and/or radio schematic into the following outlines; sound systems, synchronic circuits and video systems. Sweep circuits and power supply circuits. Complete analysis for each outline circuit. Comparison between different brand receivers.</p>	450
K	<p>LOCATING DEFECTIVE CIRCUITS</p> <p>By previous analysis and use of visual indications to show location of trouble. Conduct minor repairs, such as replacement of tubes, and adjustments.</p>	400
L	<p>MAJOR SERVICE AND TROUBLESHOOTING</p> <p>Use of service equipment to localize the exact trouble. Use of the oscilloscope, signal generators, sweep generators, and other equipment. Interpretation of mechanical and electronic failure for remedial work.</p>	1450
	REPLACEMENT AND REPAIRS	

M

Make necessary adjustments resulting from new and changed components. Complete alignment of sound and/or video systems. Final check for overall operating characteristics and repair.

500