

Work Processes Schedule

REFRIGERATION MECHANIC

RAPIDS: 0666M

O*NET/SOC: 49-9021.02

REVISION DATE: 12/2014

Install, operate, and repair refrigeration and air conditioning equipment and systems. Prepare and install associated lines, tubing, and fittings. Braze or solder connections as required. Install electrical connections and supply lines. Prepare and install required ducting. Ensure installation or repair conforms with required regulations. 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 1120, 1161, 1169, 6073

USCG MK

USN MM, UT

Related Instruction

Any trade related school(s) totaling 432 hours. Completion of an AC&R school or course before enrollment.

Additional Requirement

Must have completed AC&R school.

Total Hours: **6000**

Skill	Description	Hours
A	<p>GENERAL TRADE ORIENTATION</p> <p>Care and use of tools, test and measurement devices. Introduction to refrigeration components, types and sizes of piping, tubing and fittings. Use of equipment records and reports. Safety procedures.</p>	300
B	<p>FABRICATION OF SYSTEM COMPONENTS</p> <p>Cut and thread piping. Flare, bend and shape tubing. Solder, braze, install fittings and components. Care and use of oxyacetylene and prestolite torches. Use of silver and soft soldering.</p>	550
C	<p>SYSTEM INSTALLATION AND CONNECTION</p> <p>Install electrical connections, supply lines and cables. Install water service line, air supply ducts, pressure reduction, expansion, evaporator and stop valves. Install suction and discharge lines, gauges, dehydrators, filters, strainers and controls. Install evaporators and other cooling coils</p>	1000
D	<p>EQUIPMENT INSTALLATION</p> <p>Use of slings, lines, blocks and falls, chain hoists, rollers, dollies and skids. Install condensers. Prepare compressor and motor bases; install and align compressors and motors.</p>	950
	<p>SYSTEM MAINTENANCE</p>	

E	Troubleshoot field systems. Test pressure and flow. Check liquid levels. Check repair leaks (freon and liquid). Purge, dehydrate and charge systems. Repair, align, adjust fans and blower sections. Align pulleys, bearing blocks and belt tension.	850
F	<p>EQUIPMENT REPAIR</p> <p>Disassemble and clean, repair/renew, shop tests and test run compressor. Repair, pressure test and dehydrate evaporators. Remove, replace, disassemble, test clean, calibrate renew defective parts on controls of all types: pneumatic, electrical electro-pneumatic, thermostatic humidity, pressure and vacuum.</p>	2000
G	<p>MACHINE SHOP SKILLS</p> <p>Use of grinders, drill presses, lathes, tool and drill sharpening machines.</p>	350