



Classification Summary

Installs, maintains, and repairs refrigeration, air conditioning, heating systems, and pneumatic and electronic control systems in District buildings.

Distinguishing Characteristics

Distinguished by requirement for skill in the diagnosis, repair, redesign, and installation of climate control systems and refrigeration equipment.

Supervisory Relationships

Reports to the Maintenance Supervisor. May provide technical oversight to assigned trainees or staff.

Examples of Duties

1. Inspect, diagnose, and repair malfunctioning heating, ventilation, air conditioning, and refrigeration equipment.
2. Test/measure pressure, temperature, air flow, electrical voltages, amp draws and ohm readings, refrigerant leaks, fan to motor rpm's, and refrigeration compressor oil levels to determine source of malfunction.
3. Develop, revise and implement preventive maintenance programs using information from users, manufacturer, and equipment history records.
4. Monitor building use and program microprocessor-controlled climate adjustment systems to minimize costs without sacrificing comfort of building occupants.
5. Maintain equipment and supply inventories; keep records of maintenance schedules, work performed, and supplies used.
6. Prioritize and schedule work according to nature and severity of problem.
7. Install new, retrofit, or replacement equipment and electronic, electric, or pneumatic control systems to obtain maximum efficiency.
8. Develop estimates of repair costs; write specifications for contracted work.
9. Remain informed on technological developments, industry advancements, trade qualifications, and refined application techniques.
10. Perform related work as required.

Required Knowledge, Skills And Abilities

1. Journey level knowledge of the operation, maintenance and repair of refrigeration and air conditioning equipment, heating systems, and pneumatic and electronic control systems.
2. Ability to operate tools such as electrical testing instruments, air flow meters, power and hand tools, pressure gauge manifolds, refrigerant leak detectors, and oxy-acetylene and arc welding equipment.
3. Ability to read blueprints, diagrams, and repair manuals, and to convey technical specifications orally and in writing.
4. Ability to apply safety practices in equipment use and service. Ability to oversee and direct the work of crews and contractors.
5. Engineering skills and working knowledge of welding, plumbing, electrical installation and related legal codes.

Minimum Qualifications for Class Entry

1. Three years of journey level experience in HVAC and refrigeration repair; substantial experience in related fields.
2. Possession of a valid State of Oregon driver's license.

Work Environment

Works in a maintenance shop facility or in District buildings. Assignments may require working on ladders or in awkward or tiring positions, lifting heavy objects, exposure to risk of electric shock, chemical fumes, airborne fiberglass or asbestos particles, and noise of operating equipment. Incumbents may be required to perform emergency repairs during evening or weekends.