

Jurisdictional Class: Competitive
Adopted: December 24, 1992
Revised: July 1, 2011

REFRIGERATION MECHANIC

DISTINGUISHING FEATURES OF THE CLASS: This position involves responsibility for the operation, maintenance, repair, and installation of refrigeration and air conditioning equipment. This position is distinguished from other maintenance and repair positions by the specialized nature of the work in a specific skill area. The work is performed under general supervision of the Superintendent of Buildings and Grounds with leeway allowed for exercise of independent judgment in carrying out technical details of the work. The incumbent may act as a lead person or trains others in the repair and maintenance of refrigeration, air conditioning, or similar equipment. The incumbent does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative only)

Maintains and repairs refrigeration systems and equipment, including walk-in coolers, refrigerators and freezers, chillers, and water coolers in the Government Center and other county facilities;

Maintains, repairs, cleans, lubricates, and otherwise services pumps, air conditioning units, compressors, ventilators, and other similar and related equipment;

Overhauls compressors, pumps and electric motors, trouble shooting control systems, and repair as necessary;

Performs, preventive maintenance on all equipment including small fractional horsepower compressors to several hundred horsepower units;

Overhauls and replaces control devices and calibrates them as needed;

Plans and executes a preventative maintenance program for air conditioning and refrigeration systems;

Inspects machinery and equipment and replaces worn or broken parts;

Adjusts electric and electronic controls and thermostats and regulates system operations for maximum efficiency;

Installs and repairs wiring, switches and controls;

Performs seasonal start up and shut down operations on air conditioning systems to ensure efficient operation and to prevent freeze up;

Locates and seals leaks, removes non-condensables, and recharges refrigerant systems;

Installs new equipment;

Keeps logs of inspections and repairs and may prepare and revise operating manuals;

Estimates and requisitions materials needed for maintenance and repairs;

May act as a lead person and/or train others in the repair and maintenance of refrigeration and air conditioning equipment, including layout and assignment of work;

Operates a motor vehicle to transport personnel and equipment between job sites.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES & PERSONAL CHARACTERISTICS:

Thorough knowledge of the operation, maintenance, repair, and installation of refrigeration and air conditioning equipment;

Good knowledge of the availability and cost of tools, parts, and materials necessary to the trade;

Good working knowledge of the practices, principles, procedures, tools, and safety precautions pertinent to the work;

Working knowledge of the various refrigerants and the methods for using them;

Working knowledge of electrical wiring and electronic circuitry as they relate to refrigeration and air conditioning systems;

Ability to repair and maintain refrigeration and air conditioning systems;

Refrigeration Mechanic

Ability to develop and implement a preventative maintenance program for large air conditioning and refrigeration systems;

Ability to read and interpret plans, blueprints, specifications, schematic drawings, and technical manuals;

Ability to lay out and draw rough sketches and diagrams of work to be performed;

Ability to maintain simple records;

Mechanical aptitude.

MINIMUM QUALIFICATIONS: Graduation from high school or possession of a high school equivalency diploma and either:

(a) Two (2) years of technical schooling with specialization in air conditioning technology and one (1) year of experience at the journeyman level in the operation and maintenance of commercial refrigeration and air conditioning equipment; or

(b) Four (4) years of experience in the mechanical or electrical field which must include two (2) years in the maintenance of commercial refrigeration and air conditioning equipment; or

(c) An equivalent combination of training and experience as defined by the limits of (a) and (b) above.

SPECIAL REQUIREMENTS: Possession of an Environmental Protection Agency (EPA) approved "Universal" Refrigeration Certification at time of appointment.

Assignments made to employees in this class will require reasonable access to transportation to meet field work requirements in the ordinary course of business in a timely and efficient manner.