

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: This is skilled technical work involving the operation, repair of all ventilation, air conditioning and refrigeration equipment and maintenance of all City-owned buildings, facilities and property. General supervision is received from the Skilled Trades Crew Leader. The Heating, Ventilation, Air Conditioning & Refrigeration Technician performs related work as required.

TYPICAL WORK ACTIVITIES:

Calibrates and tests safety controls on equipment such as pumps, cooling tower water control, etc. - related to air conditioning with centrifugal compressors;
Repairs leaks and recharges Ice Rink refrigeration system with refrigerants such as ammonia or halogenated refrigerants using calcium chloride or glycol as a secondary refrigerant;
Services and repairs walk-in freezers and coolers, back bar refrigeration, ice cubers and flakers;
Performs repairs to such equipment involving silver braze and sweat of copper piping;
Analyzes boiler efficiency of low press steam boilers and related equipment pumps;
Makes mechanical repairs to such equipment;
Calibrates and repairs pneumatic instruments such as sensors, zone thermostats, transmitters, pneumatic and instruments such as sensors, zone thermostats, transmitters, pneumatic and electric relays, etc.;
Maintains and repairs air compressors, air handling units, filtration, exhaust fans, water pools and space heaters;
Operates computerized equipment in scheduling of heating, air conditioning and lighting;
Repairs fire protection equipment;
Repairs piping, sprinkler heads of fire protection equipment.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good technical knowledge of air conditioning using centrifugal compressors for water chilling and related equipment such as pneumatic operators and valves; good knowledge of ice rink refrigeration system using ammonia or halogenated refrigerants; good knowledge of electrical controls for compressors, brine pumps and tower fans; ability to repair walk-in freezers and coolers, ice cubers and flakers; ability to silver braze and sweat copper piping; working knowledge of operation and maintenance of fire protection equipment such as wet and dry sprinkler systems, smoke detectors, etc.; ability to learn operation of computer related to heating, air conditioning, lighting, etc.; ability to work from plans and specifications and rough sketches and oral instructions; ability to lay out work for self and others; good motor, hand and eye coordination; physical condition commensurate with the demands of the position.

(over)

HEATING, VENTILATION, AIRCONDITIONING AND REFRIGERATION SPECIALIST (Continued)

MINIMUM QUALIFICATIONS: EITHER

- (A) Graduation from high school or possession of a high school equivalency diploma and three (3) years of paid work experience which included the operation and repair of centrifugal chillers and air conditioning units, repair and operation of low pressure steam boilers, experience in ammonia refrigeration and equipment preferred;

OR

- (B) Five (5) years experience as defined in (A).