

## CITY OF HAMILTON

### PUBLIC WORKS DEPARTMENT

### (TRANSPORTATION, ENERGY & FACILITIES DIVISION - CORPORATE FACILITIES – LOCATION – DOWNTOWN CORE)

### REFRIGERATION AC TECHNICIAN (FACILITY MAINTENANCE) - CUPE 5167

#### SUMMARY OF DUTIES

Report to Facility Supervisor. Conducts scheduled and unscheduled maintenance and repairs of mechanical equipment and buildings systems by maintaining, adjusting and repairing equipment.

#### GENERAL DUTIES

Conduct scheduled and unscheduled maintenance and repairs of mechanical equipment such as refrigerating systems, furnaces, boilers, heat pumps, cooling towers, humidifiers, circulating pumps, exhaust fans and air handling units, chillers, compressors, plumbing systems.

Prepare plans and prioritize required equipment.

Monitor and test building safety devices such as sprinklers, alarms, generators, fire hoses and extinguishers.

Adjust air handling system controls to maintain environmental conditions through the building system computer.

Perform electrical repairs and troubleshooting as it pertains to equipment.

Repair all building indoor and outdoor lighting.

Repair doors, handles, hardware and overhead doors.

Perform minor maintenance such as hanging pictures, painting, and grounds clean-up.

Operate oxy-acetylene torch set for cutting, heating and brazing.

Perform maintenance and repairs to irrigation systems and spray pads.

Repair fan systems, pumps, valves, piping, bearings, pulleys, motors, compressors, coils, heat exchangers, burners, and electrical wiring.

Operate hand and power tools such as electric drill, electric tube cleaner, hammer and wrenches.

Operate measuring instruments such as refrigeration gauges, scott air packs, gas monitors, relative humidity sensor, velometer, flow meter and gas analysis.

Competent use of all required refrigeration temperature and pressure testing instruments, recovery equipment and cylinders and vacuum pump.

Perform housekeeping duties in mechanical rooms such as cleaning and painting.

Operates refrigeration testing instrument

Monitor and maintain hydronic systems chemistry, including cooling towers chemical treatment systems

Oversee work of contractors.

Work in accordance with the provisions of applicable Health and Safety legislation and all City of Hamilton corporate and departmental policies and procedures related to Occupational Health and Safety.

Perform other duties as assigned which are directly related to the major responsibilities of the job.

**QUALIFICATIONS**

1. Technical knowledge required of mechanical equipment (HVAC:boilers, furnaces, heat pumps, gas fired roof top units, cooling towers, chillers, generators, compressors, etc) and building systems (electrical, plumbing, life safety, etc). This includes previous experience in operation, maintenance, repair, and replacement of components of these systems.
2. At the time of application, must possess a current Ontario Certificate of Qualification as a Refrigeration and Air Conditioning Mechanic (313A).
3. At the time of application, must possess a valid Ontario Gas Fitter G1 Certificate.
4. Must possess a current licence for the safe handling and recovery of refrigerants: Ozone Depletion Prevention (ODP) Certification.
5. Previous related experience in maintaining chillers, boiler compressors, diesel and gas generators, and main air handlers mandatory.
6. Possess experience in the functionality of building automation systems and HVAC controls including equipment software, DDC controllers and field devices required. Ability to understand sequence of operation, using LonWorks, Bacnet (or similar) protocol fundamentals. Siemens Design CC experience and/or certification considered an asset.
7. Demonstrated knowledge of asbestos awareness and removal.
8. Ability to work independently prioritizing changing demands and requests and executing with minimal supervision to achieve best possible outcome. Strong interpersonal and communication skills to relate and respond readily to front line staff, City departments and the general public.
9. Strong computer skills (outlook, word, excel) including good knowledge of computerized H.V.A.C/BAS systems and associated controls, components and software.
10. Must be able to communicate effectively, both verbally and in writing.
11. Demonstrated ability to repair and maintain various types of equipment and buildings. Manage, operate and maintain gas/air compressor and generation systems, etc.

**THIS POSITION REQUIRES A VALID CLASS "G" DRIVER'S LICENCE AND PROOF THEREOF IS REQUIRED AFTER HIRE**

**THE INCUMBENT SHALL COMPLY WITH ALL HEALTH AND SAFETY POLICIES AND PROCEDURES FOR THIS POSITION AND THE WORKPLACE.**

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