



# *Provincial Job Description*

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**TITLE:**  
**(008) 3<sup>rd</sup> Class Power Engineer**

**PAY BAND:**  
**14**

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**FOR FACILITY USE:**

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**SUMMARY OF DUTIES:**

Maintains, operates and repairs a 3rd Class plant/energy centre system.

**QUALIFICATIONS:**

- ◆ Power Engineering Technology completed Semesters 1, 2 and 3
- ◆ 3rd Class Power Engineer certificate

**KNOWLEDGE, SKILLS & ABILITIES:**

- ◆ Intermediate computer skills
- ◆ Intermediate knowledge of mechanical and electrical trades
- ◆ Organizational, communication and interpersonal skills
- ◆ Ability to work independently
- ◆ Ability to read blueprints and schematics

**EXPERIENCE:**

- ◆ Previous: No previous experience.

## **KEY ACTIVITIES:**

### **A. Plant / Energy Centre Operation**

- ◆ Operates and services building/plant (e.g., boilers, fans, cooling towers, chillers, HVAC, automation systems, emergency power, fire systems, ventilation units, call systems) within code requirements.
- ◆ Maintains and services water systems (e.g., tests, analyzes and logs pumps, converters, heat reclamation system, piping).
- ◆ Mixes chemicals.
- ◆ Removes and replaces parts (e.g., pipes, valves, sight glasses, safety valves, pumps, packing and mechanical seals).
- ◆ Prepares shift reports.
- ◆ Performs daily boiler chemical tests, calculates impurities, adds chemicals as necessary.
- ◆ Performs daily equipment checks.
- ◆ Maintains and repairs boilers (e.g., shut downs, boiler inspection, replace parts).
- ◆ Monitors and maintains pneumatic control system.
- ◆ Monitors and responds to plant alarms.
- ◆ Liaises with outside contractors, vendors and inspectors.
- ◆ Repairs electrical equipment and wiring.

### **B. Preventative Maintenance**

- ◆ Performs preventative maintenance tasks on all plant/energy centre equipment and systems.
- ◆ Performs preventative maintenance tasks on other equipment throughout the facility as per preventative maintenance program, where required.
- ◆ Maintains maintenance logs and records.

### **C. Related Key Work Activities**

- ◆ Maintains a clean work area.
- ◆ Prepares daily reports.
- ◆ Assists tradespersons with repairs to plant.
- ◆ Maintains inventory (e.g., orders parts and chemicals).
- ◆ Participates in renovation projects.
- ◆ Locks / unlocks doors and performs security checks, where required by the job.
- ◆ Performs general maintenance activities throughout the facility (e.g., kitchen, laundry, housekeeping, beds, call system), where required by the job.
- ◆ Performs minor plumbing, mechanical, carpentry and welding duties, where required by the job.
- ◆ Maintains medical gas systems, where required by the job.
- ◆ Provides occasional guidance to the primary function of others, including training.

*The above statements reflect the general details considered necessary to describe the principal functions of the job and shall not be construed as a detailed description of all related work assignments that may be inherent to the job.*

*Any revisions of this document recommended by the Joint Job Evaluation Maintenance Committee must be approved by the Parties.*

**Validating Signatures:**

**CUPE:**

**SEIU:**

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**SGEU:**

**SAHO:**

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**Date: 2005**

***Education component of the qualifications updated August 31, 2017***