



Provincial Job Description

TITLE:
(008) 3rd Class Power Engineer

PAY BAND:
14

FOR FACILITY USE:

SUMMARY OF DUTIES:

Maintains, operates and repairs high-pressure boilers/energy centre systems.

QUALIFICATIONS:

- ◆ Power Engineering Technology diploma completed Semesters 1, 2, 3 and 4
- ◆ 3rd Class Power Engineer certificate

KNOWLEDGE, SKILLS & ABILITIES:

- ◆ Intermediate computer skills
- ◆ Intermediate knowledge of mechanical and electrical trades
- ◆ Organizational skills
- ◆ Communication skills
- ◆ 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.
- ◆ Analyzes and troubleshoots equipment
- ◆ 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 inspections, commissions, verifies and calibrates equipment.
- ◆ 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

- ◆ 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.
- ◆ Performs general maintenance activities throughout the facility (e.g., kitchen, laundry, housekeeping, beds, call system).
- ◆ Performs general plumbing, mechanical, carpentry and welding duties.
- ◆ Maintains medical gas systems.
- ◆ 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.

Validating Signatures:

CUPE:

SEIU:

SGEU:

SAHO:

Date: February 12, 2019