

**"This information is available in alternate formats upon request."**

## **POWER ENGINEER 1st, 2nd and 3rd CLASS GENERAL**

An employee in this classification acts as a shift Power Engineer in a high pressure plant. He is directly responsible to the Chief Power Engineer.

1. **First Class** - A high pressure plant which develops over 1000 boiler horsepower is classified as a First Class Plant.
2. **Second Class** - A high pressure plant which develops over 500 boiler horsepower, but not more than 1000 boiler horsepower is classified as a Second Class Plant.
3. **Third Class** - A high pressure plant which develops over 100 boiler horsepower, but not more than 500 boiler horsepower is classified as a Third Class Plant.

### **TYPICAL DUTIES**

- Supervises the operation of a power plant during an assigned period.
- Operates boilers and auxiliary equipment in a safe and efficient manner.
- Observes and records readings from all meters and gauges for steam pressure, steam consumption, fuel consumption, water consumption and power consumption.
- Carries out duties laid down by the Department of Labour such as reporting accidents, explosions and damages to pressure vessels.
- Understands the various uses of firefighting equipment and is familiar with local fire regulations.
- Supervises and instructs apprentices, labourers, maintenance assistants or other assigned help.
- Responsible for the operation of mechanical equipment and the repair of buildings during an assigned period.
- Performs emergency duties if required.
- Test runs standby electric generator and fire pumps.
- Checks proper functioning of water pumps, water treatment equipment, sewage disposal plants and sprinkler systems, etc.
- Performs other related duties as assigned.

# QUALIFICATIONS

## Knowledge, Abilities and Skills

- Comprehensive knowledge of principles, practices and techniques of power plant operation and the maintenance of associated equipment.
- Skill and ability in the control and operation of boilers and auxiliary equipment.
- Ability to keep neat records and prepare routine operating reports.
- Ability to carry out running repairs on all steam, gas, oil, electrical, refrigeration and pneumatic equipment.
- Ability to carry out written and verbal instructions.

## POWER ENGINEER 1st, 2nd and 3rd CLASS (continued)

### QUALIFICATIONS (continued)

#### Education, Training and Experience

**First Class** - Grade XI education plus possession of the Manitoba Second Class Power Engineer's certificate. Preferably two years' experience in the first class power plant operation.

**Second Class** - Grade XI education plus possession of the Manitoba Third Class Power Engineer's certificate. Preferably two years' experience in second class power plant operation.

**Third Class** - Grade XI education plus possession of the Manitoba Fourth Class Power Engineer's Certificate. Preferably two years' experience in third class power plant operation.

#### Physical Standards

Physically capable of performing the duties assigned.

# **POWER ENGINEER 5th CLASS**

## **GENERAL**

An employee in this position assumes responsibility of the operation and maintenance of low pressure boiler and auxiliary ventilation and mechanical equipment, usually in a smaller building.

## **TYPICAL DUTIES**

- Operates low pressure boiler, starts and stops fan systems.
- Performs general maintenance functions such as minor repairs, grounds maintenance and maintaining good housekeeping in mechanical rooms, etc.
- Prepares time sheets, holiday schedules and requisition material for trades helpers, caretakers, etc.
- Performs other related duties as assigned.

## **QUALIFICATIONS**

### **Knowledge, Abilities and Skills**

- Knowledge of mechanical equipment.
- Ability to use hand and power tools.
- Ability to work with a minimum of supervision.

### **Education, Training and Experience**

Valid 5th Class Power Engineer's certificate or equivalent (fireman or restricted 5th class certificate), with three years of experience in building maintenance.

### **Physical Standards**

Physically capable of performing the duties assigned.