

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.

First Class - A high pressure plant which develops over 1000 boiler horsepower is classified as a First Class Plant.

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.

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 fire fighting 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.

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.