
FACILITIES SUBSECTOR COLLECTIVE AGREEMENT BENCHMARK

Job Family: Maintenance

Class Series: Power Engineers

Grid: MA17

Class Title: Power Engineer 5

I. Level Definition

Positions at this level operate and maintain a power plant or a low pressure steam plant by operating, repairing and carrying out preventative maintenance on the boilers, air conditioning units, emergency power and other related equipment of the facility in compliance with applicable codes and regulations.

II. Typical Duties

- (1) Operates steam, hot water heating boilers, expansible fluid and air conditioning systems, including starting up and shutting down boilers and related pumps, fans, air compressors, pneumatic systems; monitors and adjusts temperature control system, pressure and feed water levels; monitors and records meter and gauge readings to ensure distribution of steam/air heating to designated areas.
- (2) Monitors and adjusts physical plant and heating, ventilating and air conditioning systems by operating a variety of mechanical, pneumatic and/or electronic control systems and performing such tasks as altering systems operating parameters and schedules; repairs and calibrates various instrumentation components of the steam and HVAC systems; maintains required documentation.
- (3) Monitors and adjusts chemical treatment systems.
- (4) Performs preventative and demand maintenance on steam, hot water heating boilers, expansible fluid, ventilation and air conditioning systems by lubricating, repairing, replacing or installing equipment and/or parts such as pumps, fans, air compressors, heaters, refractories, pneumatic systems, valves, bearings and seals.
- (5) Tests and maintains auxiliary power generators and repairs/adjusts as required.
- (6) Performs testing on boiler systems such as combustion and water treatment analyses.
- (7) Maintains, repairs, replaces and extends steam piping systems including components of the physical plant such as expansion joints, valves, steam traps, strainers, heat exchangers, gauges and insulation.
- (8) Answers service and emergency calls for sterilizers and a variety of building systems such as fire protection, medical air, vacuum and gases; resets systems, assesses and performs required repairs or calls in appropriate person.
- (9) Ensures compliance with various codes and regulations applying to power engineering by providing direction in relation to plant safety to all persons working within the power plant.
- (10) Performs other related duties as assigned.

III. Qualifications

(1) Education, Training and Experience

Certificate of competency as a 5th Class Power Engineer with Boiler endorsement recognized by the Province of B.C. Two years' recent related experience or an equivalent combination of education, training and experience.

(2) Skills and Abilities

- (i) Ability to communicate effectively both verbally and in writing.
- (ii) Ability to deal with others effectively.
- (iii) Ability to read and interpret blueprints, drawings and specifications.
- (iv) Physical ability to carry out the duties of the position.
- (v) Ability to operate related equipment.