

MAINTENANCE ELECTRICIAN

NATURE OF WORK

This is skilled electric work in the structural layout installation, maintenance and repair of electrical systems, equipment and related control systems, instrumentation and mechanical components.

Work involves performing tasks in accordance with standard trade practices in construction and industry in the installation, construction, modification, maintenance and repair of electrical systems, equipment and fixtures, indoors and outdoors. Work also involves maintenance and repairs and adjustments to communication radio transmitters and receivers, intercom systems and various other pieces of electric and electronic equipment. A variety of inspection tasks may be performed as required. Assignments are received in the form of oral or written instructions, sketches or blueprints, although work may result from inspection or troubleshooting. Work is ordinarily performed independently subject to inspection in process or upon completion.

ILLUSTRATIVE EXAMPLES OF WORK

Constructs, installs, maintains, modifies, services and repairs alarms, motors, switches, conduit, wires, control panels, fire alarm panels, emergency lighting and generators required in making additions, alterations and modifications to electrical systems.

Repairs and maintains high voltage systems and theatre lighting systems.

Maintains and repairs a variety of pneumatic-electric, electronic and electric controls and components relating to heating and ventilation systems, refrigeration units, air conditioning systems and recording instruments.

Repairs, replaces and modifies parts in motors, pumps, switches, alarms, transformers, control systems and recording units.

Maintains diesel generators and related D.C. suppliers and master clock and time programme system within the University.

Provides emergency power circuits to scientific experiments in case of power shutdown.

Tests for, locates and repairs electrical problems in electrical circuits and equipment.

Keeps workshop and substations in a clean and respectable condition.

Operates a variety of precision hand and power tools, tests with electric and electronic instruments, assists in design and setting up new control panels.

Performs related work as required.

REQUIREMENTS OF WORK

Experience as a construction and industrial electrician, including some experience in performing varied maintenance and repair tasks; graduation from high school supplemented by successful completion of courses in the electrical trade from an institution of technology or trades school; or any equivalent combination of experience and training which provides the following knowledge, abilities and skills:

Knowledge of the standard practices, tools and equipment common to the electrical trades.

Knowledge of the prevailing electrical codes and of the tools and equipment used in the electrical trade.

Knowledge of motor principles and control, of heating and ventilation systems, air conditioning systems, refrigeration units and recording instruments.

Knowledge of the occupational hazards and safety precautions of the electrical trade.

Knowledge of the principles and workings of communications systems such as public address, intercom, transmitters and receivers.

Ability to determine safety values for new and old circuits and switching arrangements.

Ability to understand oral and written instructions and to work from diagrams, blueprints and rough sketches.

Ability to locate and adjust defects in electrical systems and equipment and in the use of various types of testing equipment.

Ability to work effectively with fellow workers and members of other departments and to maintain effective working relationships with faculty and non-faculty personnel.

Skill in the use and care of hand and power tools and equipment common to work in the electrical trade.

Physical strength to permit the lifting and moving of heavy objects.

Ability to guide and supervise others in performance during orientation periods and major breakdown jobs.

Possession of a valid electrician's certificate issued by the Province of Newfoundland and Labrador.

Familiarity with MUN electrical installations and systems, and experience and/or training in the physical plant at MUN.

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