



## **Electrician I**

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### **DEFINITION**

This is journeyman level work involving new installations, renovations, maintenance, repair and testing of electrical equipment and circuiting, supervisory control systems, intercommunication systems, alarm systems, boiler controls, automatic control systems, emergency power systems and related electrical apparatus.

Work also involves the preparation of job layouts and the inspection of contracted work prior to departmental acceptance.

### **TYPE OF WORK**

- |                                       |                                                |
|---------------------------------------|------------------------------------------------|
| <input type="checkbox"/> Unskilled    | <input checked="" type="checkbox"/> Journeyman |
| <input type="checkbox"/> Semi-skilled | <input type="checkbox"/> Above Journeyman      |
| <input type="checkbox"/> Skilled      |                                                |

### **TYPICAL DUTIES \***

In accordance with the Canadian Electrical Code, Electrical Protection Act of Alberta, applicable City bylaws, departmental and safety standards:

Prepares electrical and wiring layout diagrams for new installation and renovation projects.

Estimates the quantity, type and cost of electrical materials required for specific projects. Obtains materials from stores or suppliers as required and maintains a record of materials used.

Installs required conduit, wiring and electrical equipment such as panels, breakers, distribution transformers, switch gear, bus-bar work, motor starters, protective relays, remote controls, lighting fixtures and electrical outlets, smoke detection devices, etc, and conduit for communication systems.

Arranges for progressive and final inspections of electrical work with the electrical inspector.

On a programmed basis, inspects, tests, and repairs electrical equipment such as emergency power supplies, overhead doors and controls, fire alarm systems, and smoke detection devices such as ionization, photo-electric and infra-red detectors; boiler controls, protector relays, switch gear, electric motors and lighting systems, etc.

Inspects, tests, and repairs vehicle scanners, block heaters and portable electrical tools carried on fire trucks.

Installs and maintains electrical circuits and outlets in City parking lots, security identification systems, special effects, lighting displays, kiln controls, motor control systems, pumps fans, compressors, public address systems, underwater lighting, scoreboards, smoke detection devices, and other related equipment.



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---

Installs and maintains electrical services to telephone booths and equipment by obtaining power supply from private and public resources.

Maintains and repairs electrical wiring in City owned housing and buildings and recommends modifications or replacement of faulty wiring and electrical equipment.

Terminates new equipment such as air conditioners, fans, computer terminals, etc., by installing the service as required and making final connections.

Trouble shoots emergency and scheduled repairs to locate the electrical fault, repair and place back in service.

Installs and maintains deep sewer portable substations, lighting systems and generators; major equipment such as Moles and hoists and electric locomotives.

In conjunction with a supervisor develops and implements preventative maintenance schedules and coordinates the work of the electrical section with that of other trades.

Inspects contracted work for quality and adherence to specifications.

Operates and is responsible for a vehicle and its stock including materials, tools and test equipment.

Modifies and repairs small electrical tools and equipment used by construction sections such as handsaws, drills, etc.

Performs other related duties as required.

### **SUPERVISORY/LEADHAND RESPONSIBILITIES**

May be assigned Apprentices and trades helpers as required.

### **ENVIRONMENTAL AND WORKING CONDITIONS**

Working conditions vary from work indoors to unpleasant conditions in City owned houses, to work in close quarters such as crawl spaces, working in deep sewer tunnels, to working at heights on poles, ladders and bucket trucks to extremes in weather conditions.

### **TRAINING AND EXPERIENCE REQUIREMENTS**

#### Job Level

Completion of Grade 12, or an equivalent combination of training and experience

Possession of a First Class Journeyman Electrician Certificate.

Experience in the maintenance and repair of electrical construction equipment an asset.

Possession of a valid Class 5 Alberta Motor Vehicle Operator's License.



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### On-the-Job Training

Continual training program to keep abreast of advances in the electrical industry.

\* *This is a class specification and not an individualized job description. A class specification represents and defines the general character, scope of duties and responsibilities of all positions within a specific job classification. It is not intended to describe nor does it necessarily list the essential job functions for a specific position in a classification. Positions may perform some of the duties listed above but this does not necessarily qualify for placement into this classification.*

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Salary Plan	62M	62D
Job Code	1253	
Grade	023	
Last Updated:	2003	
Previous Updates:	1989	
Originated:	1980	