

ELECTRICIAN

Job Summary:

Under general supervision, performs journey-level electrical work in the repair, construction, installation, and maintenance of City electrical systems and equipment including high voltage; may supervise the work of subordinate staff serving as assistants on various projects; does related work as required.

Essential Duties and Responsibilities:

(These functions are representative and may not be present in all positions in the class.) Management reserves the right to add, modify, change or rescind related duties and work assignments.)

1. Inspect, repair, install, service and maintain electrical and lighting systems, including conduit and duct systems, light and power circuits, motor appliances, generators, breaker panels, control equipment switches, switchboards, fans, heaters, fixtures, boilers and clocks.
2. May oversee and assign the work of subordinate staff.
3. Install, maintain and repair equipment, pumps, pump motors, motor control panels and related equipment.
4. Maintain and repair heating and air conditioning equipment, refrigerators.
5. Drive and use aerial equipment to access light poles to repair or maintain electrical equipment; may climb poles to perform electrical repairs.
6. Operate a variety of tools and equipment.
7. Install necessary interior and exterior wiring for equipment and appliances;
8. Wire new and altered buildings.
9. Perform troubleshooting work to locate defects in electrical systems.
10. Replace fuses, breakers, overloaded heaters.
11. Install, test and maintain intercommunication systems, public address systems.
12. Interpret electrical plans and specifications and check for conformity with codes, regulations and safety orders, prepare schematic drawings.
13. Keep material and cost records.
14. Estimate time and material costs of projects.
15. Order materials and supplies.
16. Perform related duties as required.

Qualificaton Guidelines:

A typical way to obtain the requisite qualifications to perform the duties of this class is as follows:

Education and Experience:

Any combination of education and training that provides the knowledge, skills and abilities necessary for satisfactory job performance such as a formal apprentice program or equivalent training and four (4) years experience performing electrical work at the journey level.

Knowledge of:

- Standard practices, tools, terminology, materials and equipment of the electrical trade.
- Design, construction, installation and maintenance of electrical and lighting equipment.

- Electrical codes and related ordinances and regulations.
- Electrical motors and control systems.
- Safe work practices; use of aerial equipment.
- Basic principles of supervision.
- Basic record keeping practices.

Skill and Ability to:

- Use electrical tools and equipment skillfully and safely; read and follow electrical plans and specifications.
- Diagnose causes of electrical failure.
- Wire and rewire electrical circuits, motors and panels.
- Repair lighting, control and telemetering systems and motors, pumps and other electrical units, work with up to 480 volts AC.
- Understand and carry out oral and written instructions; work safely in hazardous locations and at heights; drive equipment which provides for aerial capability.
- Establish and maintain cooperative relationships with those contacted during the course of work.
- Estimate time and material requirements for specific projects.
- Work from aerial equipment or climb to work at considerable heights.
- Maintain accurate records and prepare reports.
- Supervise the work of assigned personnel.
- May be subject to overtime, working weekends or call back.

License and Certificate:

Possession of a valid California Class C Driver's License. Must be able to obtain a Class B Driver's License if required.

Physical Requirements and Working Conditions:

Employee accommodations for physical or mental disabilities will be considered on a case-by-case basis. Positions in this class normally:

- Require the mobility to stand, stoop, reach and bend.
- Require mobility of arms to reach and dexterity of hands to grasp and manipulate small objects.
- Require the ability to stand for long periods.
- Perform work which involves the frequent lifting, pushing and/or pulling of objects which may approximate 50 pounds and may occasionally weigh up to 100 pounds.
- May be required to work in inclement weather without effective protection from sun, cold and rain.
- May be required to work with harsh and toxic substances.
- May be required to wear protective apparel including goggles, face protectors, aprons, shoes and oxygen breathing apparatus.
- May be required to work within enclosed spaces or at heights above ground level.
- May be required to work around foul odors and loud noise.
- Required to work around electrical hazards and high voltage.