

CLASS SPECIFICATION

Electrician

Range 49

Under general supervision of the Director for Facilities Planning and Operation and/or Designee, performs a wide variety of skilled, journey-level duties in the design, construction, installation, modification, maintenance and repair of electrical and electronic systems, machinery, motors, devices, controls and related systems in District buildings and facilities; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

Electrician is a journey-level class responsible for performing a wide variety of skilled duties in the design, construction, installation, modification, maintenance and repair of electrical and electronic equipment, devices and systems, ranging from low voltage to 480 volts. Assignments vary, encompass a variety of tasks and require sound judgment and initiative.

Electrician is distinguished from a Lead Electrician in that the Lead Electrician is an advanced journey-level, working lead class, providing technical assistance, training, and lead worker duties for a staff of journey-level electricians.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to this class. There will typically be an assigned schedule for these duties.

1. Inspects, repairs, installs, services and maintains electrical systems, including conduit and duct systems, lighting and power circuits, transformers, generators, control equipment, switches, switchboards, fire alarms, communications/Public Address (PA) system and intrusion/security alarm systems.
2. Installs or replaces necessary interior and exterior wiring for equipment, appliances and lighting.
3. Install or replace data cabling.
4. Installs, checks and performs repairs of electrical systems for intrusion alarms, lighting, intercom, systems, clock and bell systems, heating, ventilation and air conditioning; replaces fuses; replaces outlets and switches.
5. Observes and complies with federal, state and local electrical codes.
6. Operates a variety of tools and power equipment including saws, voltage tester, ohmmeter, multimeter and other maintenance tools and equipment.
7. Works from sketches, plans, drawings, blueprints and specifications.
8. Diagnoses and resolves difficult electrical problems; observes safety of others and recommends precautionary action while repairs are in progress.
9. Plans, implements and performs energy conservation measures to comply with state regulations.

10. Maintains a variety of records of completed work, including blueprints, sketches, diagrams and logs.

OTHER DUTIES

1. Assists other skilled maintenance personnel in cooperative assignments.
2. Operates vehicles to travel to various District sites.
3. Complete work orders using the current implemented work order system.

Knowledge of:

1. National electrical and electrical safety codes of the Division of Industrial Safety and local electrical ordinances.
2. Technical aspects of field of specialty.
3. Basic electrical theory and calculation of formulas.
4. Health and safety regulations.
5. Record-keeping techniques.
6. Materials, methods, tools and equipment used in electrical work.

Ability to:

1. Performs skilled electrical work in the repair, maintenance, alteration and construction of District buildings and facilities.
2. Install, repair, service and maintain electrical systems and equipment.
3. Repair, install and maintain a wide variety of electrical systems and equipment.
4. Make arithmetic calculations related to specialty quickly and accurately.
5. Work from blueprints, shop drawings and sketches.
6. Use a variety of tools and machines utilized in the basic trade.
7. Understand and follow oral and written directions.
8. Work independently with little direction.
9. Analyze situations accurately and adopt effective courses of action.
10. Establish and maintain effective working relationships with District management, staff and others encountered in the course of work.

Education, Training and Experience:

Graduation from high school or G.E.D. equivalent; and two years of journey-level electrical construction experience.

Licenses; Certificates; Special Requirements:

A valid California Class C driver's license, a good driving record and the ability to maintain

insurability under the District's vehicle insurance policy.

Upon acceptance of the District's offer of employment, new hires may be required to complete a baseline physical examination prior to the first day of employment.

PHYSICAL AND MENTAL DEMANDS

The physical and mental demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Demands

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, feel, or operate objects, tools, or controls; and reach with hands and arms. The employee frequently is required to stand and talk or hear; walk or sit; climb and work up to heights of 100 feet; stoop, kneel, crouch, or crawl.

The employee must regularly lift and/or move up to 50 pounds and frequently over 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

Mental Demands

While performing the duties of this class, the incumbent is regularly required to use written and oral communication skills; read and interpret data, information, and documents; analyze and solve problems; use shop mathematics; observe and interpret situations; deal with changing, intensive deadlines; and interact with officials and the public.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The employee frequently works in extreme outside weather conditions, near moving mechanical parts, and on slippery and uneven surfaces. The employee is frequently exposed to wet or humid conditions, fumes or airborne particles, toxic or caustic chemicals, and risk of electrical shock. The noise level in the work environment is frequently loud.

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