



## PERSONNEL COMMISSION

**Class Code: 0161**  
**Salary Range: 34 (C2)**

### ELECTRICIAN

#### JOB SUMMARY

Under general supervision, to perform journey-level electrical work in the repair, alteration, construction, installation and maintenance of electrical distribution centers, installations and lighting and power systems and equipment; and to perform related duties as required.

#### EXAMPLES OF DUTIES

*The classification specification does not describe all duties performed by all incumbents within the class. This summary provides examples of typical tasks routinely performed in this classification.*

- Plan, organize and lay out assigned tasks. **E**
- Inspect, repair, install, test, service, and maintain electrical systems such as motor appliances, generators, motor control equipment, switchboards, intake and exhaust fans, emergency and exit lights, bells, boilers, transformers, intercom, clocks and fire alarm systems; install, test and maintain light and power circuits single phase and three phase. **E**
- Install and repair single pole, double pole, three way and four way switches. **E**
- Install conduit and pull wire for lighting, power, equipment and appliances. **E**
- Install supplemental power supply to temporary and additional facilities and equipment as assigned. **E**
- Adjust, trouble shoot and maintain wiring, lighting fixtures, outlets, signal systems, stage and theater power and lighting systems, master clocks, motors, heating and ventilating equipment, air conditioning, and related electrical equipment using hand tools and power tools and test equipment. **E**
- Repair or replace water heater and space heater heating elements. **E**
- Install additional power and lighting for existing buildings and equipment. **E**
- Test circuits for shorts, grounds, proper insulation and open conditions. **E**
- Install, adjust and maintain time clocks, photo controls and motion detectors. **E**
- Assemble, install, and maintain lighting fixtures, disconnect switches and field lighting systems up to 200 amps. **E**
- Wire new construction, remodels and altered structures according to established standards. **E**
- Replace fuses up to 500 amps, circuit breakers and panels up to 4000 amps. **E**
- Direct the work of assigned maintenance personnel. **E**
- Estimate time and materials for jobs to be performed. **E**

- Keep time, labor and material records. *E*
- Requisition supplies, parts and materials. *E*
- Operate a District vehicle. *E*

*Note: At the end of some of the duty statements there is an italicized E, which identifies essential duties, required of the classification. This is strictly for use in compliance with the Americans with Disabilities Act.*

### **DISTINGUISHING CHARACTERISTICS**

An Electrician is a skilled worker doing a variety of journey level electrical work and related tasks. The work ranges from wiring low voltage systems to installing and maintaining plant facility lighting and power electrical systems.

### **EMPLOYMENT STANDARDS**

#### **Knowledge of:**

Theory and fundamentals of electricity.

Proper methods, materials, tools, and equipment used in the electrical trade.

Design, construction, installation, and maintenance of electrical systems, apparatus and equipment.

Electrical codes and regulations applicable to school facility maintenance, repair and construction.

National Electrical Code book.

Shop mathematics applicable to the electrical trade.

Appropriate safety precautions and procedures.

#### **Ability to:**

Perform skilled electrical work.

Use the tools, equipment and materials of the electrical trade skillfully and safely.

Perform shop mathematics.

Plan and lay out electrical work including estimating labor and material costs.

Work from wiring diagrams, blueprints, plans and specifications.

Maintain records on time and materials utilized.

Read and interpret technical manuals related to electrical repair and installation.

Perform and learn to perform complex or varied tasks in electrical maintenance and repair installation work.

Operate a vehicle observing legal and defensive driving practices.

Maintain tools and equipment used and assigned in clean working order providing proper security.

Understand and carry out oral and written instructions.

Establish and maintain effective relationships with those contacted in the course of work.

**Training:**

Equivalent to graduation from high school.  
Completion of a recognized apprentice training program of at least four years duration,

OR

**Experience:**

Four years of journey-level experience performing electrical work.

Any other combination of training and/or experience, which demonstrates that the applicant is likely to possess the required skills, knowledges and abilities, may be considered.

**SPECIAL REQUIREMENTS**

Possession of a valid class C Driver's license and evidence of a safe driving record is required at the time of appointment.

An applicant for this class will be required to obtain, at his/her own expense, and submit his/her motor vehicle driving record at the time of appointment. The record must meet and be maintained at the district's safe driving record standard. Failure to meet this requirement will result in the disqualification and/or rejection of the candidate regardless of any other standing.

Incumbents are subject to pertinent provisions of the General Industry Safety Orders of the California Code of Regulations regarding protective equipment when exposed to hazardous materials, including, but not limited to, asbestos and lead. Incumbents in this class are required to wear protective clothing, gear, and equipment as required by law and provided by the District.

**WORKING ENVIRONMENT**

Indoor and outdoors; inclement weather; work in tight spaces such as vaults, attics and under floors of buildings; dust; exposure to electrical power supply and high voltage.

**PHYSICAL DEMANDS**

Lifting, carrying, pushing and/or pulling up to 100 pounds maximum with frequent lifting and/or carrying of objects weighing up to 50 pounds; ascend and descend ladders, stairs, scaffolding, ramps, poles and the like, one or more stories above ground level; bending at the waist; kneeling; stretching and reaching overhead and horizontally; dexterity of fingers and hands to operate hand and power tools and equipment; seeing to observe and perform repairs and distinguish the colors of wires; stooping, kneeling, crouching, and crawling through attics under flooring and in similar spaces.

*AMERICANS WITH DISABILITIES ACT*

Persons with certain disabilities may be capable of performing the essential duties of this class with or without reasonable accommodation, depending on the nature of the disability.

**APPOINTMENT**

In accordance with Education Code Section 45301, an employee appointed to this class must serve a probationary period of six (6) months during which time an employee must demonstrate at least an overall satisfactory performance. Failure to do so shall result in the employee's termination.

PCA: 7/7/1988

Revised: 4/30/1998

Revised: 3/2/2000

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