

# San Diego Community College District

## CLASSIFICATION DESCRIPTION

**Title:** Electrician - I  
**Unit:** Maintenance & Operations

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**Job Code:** E1294  
**Original Date:** 08/1983  
**Last Revision:** 12/2016  
**Staff Type:** Classified  
**FLSA status:** Non-exempt  
**Salary Range:** 29

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### **DEFINITION**

Under the direction of the District Facilities Supervisor/HVAC-Electrical or assigned supervisor, perform semi-skilled and skilled work in the installation, repair, maintenance, and operation of the District's electrical systems and equipment.

### **DISTINGUISHING CHARACTERISTICS**

This is the journey level position of the Electrician series. Incumbents perform semi-skilled to skilled work independently and assist the Electrician-II in the performance of skilled work as assigned. The Electrician-I is able to perform all aspects of the electrical trade, including, but not limited to, installation, repair, servicing, maintenance, and operation of all electrical equipment independently or with little guidance. The more difficult or complex work may be assigned to the Electrician-II who also functions as the lead, providing technical direction and guidance.

### **EXAMPLE OF DUTIES**

1. Lay out, assemble, install, test, and repair electrical fixtures and apparatus, such as conduits, meters, fuse boxes, control boards, electronically-controlled lighting systems, lights, fans, heaters, fire alarms, bell and buzzer systems, scoreboard, uninterrupted power systems (UPS), field lighting systems, clock systems, and wall, floor, and ceiling receptacles.
2. Troubleshoot electrical systems failure and repair and/or replace defective parts or fixtures as necessary. Install new equipment, repair/replace existing and maintaining electrical system and its components. Provide interior and exterior wiring installation to new office equipment and other applications.
3. Inspect electrical systems and equipment for safety. Provide training on proper operation and maintenance of electrical equipment and advanced lighting systems to Utility Workers, maintenance personnel, and facility employees. Ensure the use of materials is in accordance with National Electrical Codes and OSHA Standards and Regulations.
4. Operate motor vehicles and equipment, including boom truck, scissor and aerial lifts, forklift, trenchers, and mini excavator.
5. Use computerized equipment and software to troubleshoot electrical systems failures. Test circuits and equipment, analyze electrical failures, diagnose problems, and formulate remedies.
6. Prepare job progress reports; assist in developing and implementation of preventative maintenance schedules; review documents and specifications for new construction to ensure they meet district standards as well as national and local codes.
7. Estimate labor and material costs in conjunction with the Planner Estimator for installation of new electrical equipments or fixtures (Request for Service).
8. Troubleshoot and repair building, athletic field, and parking lot lights.
9. Requisition tools, materials, and equipment to ensure proper quantities are on hand to accomplish jobs.
10. Perform related duties as assigned.

**DESIRABLE QUALIFICATIONS**

Knowledge:

- Familiar with high and low voltage test and troubleshooting equipment, electrical meters, power tools, and computers to maintain district wide lighting control systems.
- Health and safety regulations.
- Modern practices, materials and processes of the electrical trade.
- New electrical systems, terminology, and equipment.
- Oral and written communication skills.
- Safe work practices.
- State and local electrical codes, safety orders, and ordinances.
- Tools, methods, materials, and equipment used in electrical maintenance.
- Wood-framing, concrete, and masonry construction related to electrical work.

Skills and Abilities:

- Communicate effectively both orally and in writing.
- Establish and maintain effective working relationships with others.
- Layout, assemble, install, test, and repair electrical fixtures, equipment, and light and power systems.
- Make simple arithmetic calculations.
- Operate tools, equipment, and vehicles skillfully and safely.
- Read blue-prints, diagrams, drawings, and project and construction plans.
- Understand and follow oral and written directions.
- Work cooperatively with others.
- Work from wiring diagrams, drawings, and blueprints.
- Work safely.

License:

- Valid California driver's license.

Training and Experience:

- Any combination of training and experience equivalent to: five years in the trade, including one year journey level experience.

**WORKING CONDITIONS**

Physical Requirements:

- Category I

Environment:

- May involve less desirable extremes in existing and/or new construction.