

San Diego Community College District

CLASSIFICATION DESCRIPTION

Title: Electrician - II

Unit: Maintenance & Operations

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Job Code: E1296
Original Date: 08/1983
Last Revision: 12/2016
Staff Type: Classified
FLSA status: Non-exempt
Salary Range: 32

DEFINITION

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

DISTINGUISHING CHARACTERISTICS

The Electrician II is the master level experienced journeyman of the Electrician series. The Electrician-II is distinguished from the Electrician-I by higher technical skills and lead electrician responsibilities. Incumbents provide work direction and guidance to the Electrician-I and the Maintenance Worker and site Utility Workers and perform more difficult and complex technical work.

EXAMPLE OF DUTIES

1. Provide leadership, work direction, guidance, and electrical and electrical safety training to the Electrician-I, Maintenance Worker, Utility Workers and other Facilities personnel. Inspect subordinates' work, provide training of assigned workers, and assist in their work evaluations.
2. Develop electrical specifications and diagrams as necessary. Collect bids; estimate labor and materials costs. Inspect work of outside electrical contractors. Inspect electrical work and make work assignments as necessary; determine work priorities.
3. Lay out, assemble, install, test; and repair electrical fixtures and apparatus; including conduits, meters, fuse boxes, control boards, lights, fans, heaters, fire alarms, bell and buzzer systems, field lighting systems, clock systems; and wall, floor; and ceiling receptacles. Install new, replace existing, and maintain the electrical system and all of its components.
4. Read and interpret blueprints, specifications, and diagrams. Assist the District Architect, Electrical Designers and Engineers, and local utility companies in the development of new construction and upgrades to existing electrical systems
5. Use computerized equipment and software to troubleshoot electrical systems failures. Test circuits and equipment, analyze electrical failures, isolate trouble, and formulate remedies for defective components.
6. Operate motor vehicles and equipment, including boom truck, scissor and aerial lifts, forklifts, trenchers, and mini excavators.
7. Operate, monitor, program, and maintain districtwide exterior electronic lighting control systems through the use of computerized logic.
8. Requisition tools, materials, and equipment; assure proper quantities of materials, supplies, and equipment utilized by electricians.
9. Troubleshoot and repair building, athletic field, and parking lot lights at heights up to 120 feet.
10. Perform related duties as assigned.

DESIRABLE QUALIFICATIONS**Knowledge:**

Electrical systems up to and including 15,000 volts.
Familiar with high and low voltage test and troubleshooting equipment, electrical meters, power tools, and computers to maintain districtwide lighting control systems.
Health and safety regulations.
Methods of design, construction, installation, repair, and maintenance of complex electrical equipment systems.
Modern practices, materials, and processes of the electrical trade.
New electrical systems, terminology, and equipment.
Operation and use of computers and basic software applications necessary for area of specialty.
Oral and written communication skills.
Safety gear for working in extreme heights, climbing, and working on high voltage.
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 hand and power tools.
Plan and direct the work of skilled electricians.
Read blue-prints, diagrams, drawings, and project and construction plans.
Understand and follow oral and written directions.
Work from wire diagrams, drawings, and blueprints.
Work safely.

License:

Valid California driver's license.

Training and Experience:

Any combination of training and experience equivalent to: Seven years in the trade, including three years of journey level experience. One year of experience leading staff is desirable.

WORKING CONDITIONS**Physical Requirements:**

Category I. Climb field poles and work at heights up to 120 feet.

Environment:

May involve less desirable extremes in existing and/or new construction. Working with voltages up to and including 15,000 volts