

MAINTENANCE ELECTRICIAN

DEFINITION

Under supervision, to perform skilled electrical work in the repair, alteration, construction, installation, and maintenance of electrical systems and equipment; and to assist in semiskilled and skilled functions in other trades areas.

EXAMPLES OF DUTIES

The following duties are typical for this classification. Incumbents may not perform all of the listed duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.

1. Inspects, repairs, installs, tests, services, and maintains electrical systems, including conduit and duct systems, light and power circuits, motor appliances, generators, control equipment, and switches.
2. Installs interior and exterior wiring and conduit for equipment, appliances and computers.
3. Replaces circuit breakers and panels.
4. Assembles, installs, and maintains lighting fixtures, field and high intensity discharge lighting systems, and generators.
5. Evaluates existing circuitry and develops specifications for safe expansions and upgrades.
6. Determines cause of electrical failures and plans repair; tests electrical equipment; performs soldering work as needed.
7. Maintains tools and equipment in good condition.
8. Inspects electrical plans, equipment and installations for conformity with safety standards, codes and regulations.
9. Updates “as-builts” when wiring is installed or renovated.
10. Reviews and recommends supplies and materials; plans and organizes assignments effectively.
11. Estimates labor and material costs; maintains records of work performed and materials used.
12. Drives a District vehicle to and from work sites.
13. Excavates trenches either manually or operating power diggers.
14. Loads and unloads vehicles; transports, lifts, and carries tools, equipment and supplies.
15. May provide direction to maintenance assistants.
16. Performs other related duties as required.

QUALIFICATIONS

Knowledge of:

Methods, materials, tools and equipment used in the electrical trade; pertinent electrical codes and regulations; electrical formulas and single and multi-phase circuits; safe working methods and procedures.

Ability to:

Skillfully install, diagnose, repair and maintain electrical systems and equipment; proficiently use tools and equipment used in the electrical trade; safely work with live wiring including high voltage; read blueprints, diagrams and schematics; learn, understand and apply electrical theory and technology; maintain accurate records; estimate labor and material costs, perform heavy manual labor; work at heights and in confined spaces; distinguish color and have visual depth perception; communicate effectively; understand and carry out oral and written instructions; establish and maintain cooperative working relationships; comply with the District’s customer service standards, as outlined in Board policy.

Education/Experience:

Any combination equivalent to: Formal or informal education or training that ensures the ability to read

and write at a level necessary for successful job performance; three years of skilled electrical experience. Three years as a CUSD Electronic Assistant and one year of electrical experience or completion of approved coursework will be considered qualifying for Maintenance Electrician Trainee.

License/Certificate Requirement:

Possession of a valid California Driver's License.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT

The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

Environment: Work is performed in an indoor and outdoor setting; with travel from site to site, working from heights and within confined spaces, exposure to all types of weather and temperature conditions, electrical energy and high voltage, noise, dust, grease, fumes, heights, and potentially hazardous chemicals, solvents, and oils.

Physical: Primary functions require sufficient physical ability and mobility to work in an indoor and outdoor school campus setting; lift, carry, push, pull or otherwise move moderately heavy to heavy loads; bend, stoop, squat, and reach; climb ladders; verbally communicate to exchange information.

Vision: See in the normal visual range with or without correction.

Hearing: Hear in the normal audio range with or without correction.