

ELECTRICIAN

DEFINITION

Under general supervision, to perform journey level work in installing, maintaining and repairing electrical wiring systems and equipment; and to do other work as required.

EXAMPLES OF DUTIES

1. Installs electrical conduits, fixtures, motors, switches and outlets according to approved codes, working from blueprints, schematic diagrams, sketches, oral and written instructions.
2. Tests established circuits for overload and determines circuit requirements for additional electrical equipment.
3. Tests circuitry and switches for failures or malfunctions, isolates problems, and replaces worn or broken parts and makes repairs on electrical circuits and equipment such as generators, fire alarms, heating and cooling equipment, commercial appliances, airport runway lighting systems, power control panels and distribution systems.
4. Estimates cost of electrical repair or installation job.
5. Performs preventive maintenance on electrical equipment.
6. Performs minor construction or alterations on facilities in order to install or modify electrical systems and equipment.
7. Supervises the work of helpers.

MINIMUM QUALIFICATIONS

Thorough Knowledge of

Principles and practices of installing, maintaining and repairing electrical systems and associated mechanical equipment.

Tools and equipment used in installing, maintaining and repairing electrical wiring systems and equipment.

NEMA specifications and requirements as related to the repair and installation of wiring systems and equipment.

Ability to

Work at the journey level planning tasks, estimating costs and performing installation maintenance and repair on all types of electrical wiring systems and equipment operating with voltage levels up to and including 4,160 volts.

Diagnose malfunctions of electrical systems and controls and restore to specified operating standards.

Read and comprehend blueprints and schematic diagrams of circuitry.

Determine the scope and difficulty of a job based on an interpretation of oral and written instructions, schematic diagrams, sketches or blueprints.

Supervise helpers assigned to assist on various projects.

Learn and understand State and local laws, ordinances, codes and regulations pertaining to all aspects of electrical wiring systems and equipment installation and maintenance.

Work with the hand tools and testing equipment characteristic of the trade.

License Required

Possession or ability to obtain before appointment a valid California Driver License, Class 3 or higher.

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