

TORRANCE UNIFIED SCHOOL DISTRICT

CLASS TITLE: ELECTRICIAN

BASIC FUNCTION:

Under the direction of Maintenance Supervisor, perform a variety of journey-level electrical work in the installation, maintenance and repair of electrical systems and equipment.

REPRESENTATIVE DUTIES:

Perform a variety of journey-level electrical work; install, maintain and repair a variety of electrical systems, parts and equipment including electrical circuits, conduits, light fixtures, fans, generators, appliances, control devices, switchers, outlets and electrical motors. **E**

Install or replace necessary interior and exterior wiring for equipment, appliances, fire alarms, master clocks and lighting; perform repairs to related electrical equipment. **E**

Install, repair, adjust and service electrical motors; replace bearings, pulleys, belts and other parts. **E**

Install new power lines in building alteration or construction; run new lines and connect electrical source to irrigation system controllers and timers. **E**

Observe and comply with federal, State and local electrical and building codes and fire regulations. **E**

Operate a variety of tools and power equipment including saws, drills, voltage testers, ohmmeter and soldering equipment and other maintenance tools and equipment. **E**

Operate District vehicle to conduct work. **E**

Work from sketches, plans, drawing, blueprints and specifications. **E**

Complete and maintain records of work orders including labor and materials used. **E**

Repair or replace electrical fixtures, parts and components as necessary. **E**

Perform soldering operations incidental to electrical duties.

Assist in ordering, receiving and storing supplies and equipment; contact vendors to order or obtain information concerning parts and equipment; obtain prices and determine total cost of labor and materials as assigned.

Perform related duties as assigned.

KNOWLEDGE AND ABILITIES:

KNOWLEDGE OF:

Methods, equipment and materials used in electrical work.
Basic electrical theory and calculation of formulas.
Applicable electrical and building codes and fire regulations.
Health and safety regulations.

ABILITY TO:

Perform a variety of electrical work in the installation, maintenance and repair of electrical systems and equipment.
Make arithmetic calculations related to specialty quickly and accurately.
Work from blueprints, shop drawings and sketches.
Use a variety of tools and equipment utilized in the basic trade including voltmeter, ohmmeter, welding and soldering equipment and other power tools.
Diagnose and resolve electrical problems.
Observe and comply with electrical and building codes and fire regulations.
Maintain routine records.

Work independently with little direction.
Observe legal and defensive driving practices.
Work cooperatively with others.

EDUCATION AND EXPERIENCE:

Any combination equivalent to: two years journey-level experience in the electrical trade.

LICENSES AND OTHER REQUIREMENTS:

Valid California driver's license. Employees in this classification must maintain insurability at the District's standard rate during the term of employment. Asbestos Containing Building Materials (ACBM) training.

WORKING CONDITIONS:

ENVIRONMENT:

Indoor and outdoor work environment; subject to driving a vehicle to conduct work.

PHYSICAL ABILITIES:

Dexterity of hands and fingers to operate specialized hand and power tools, reaching overhead, above the shoulders and horizontally, standing and walking for extended periods of time, bending at the waist, bending, pushing, moving, and lifting moderately heavy objects, and climbing ladders.

HAZARDS:

Exposure to electrical power supply and high voltage, working in a cramped or restrictive work chamber, and working at heights .