

Street Light Maintenance Technician

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DEFINITION:

Under general direction, performs skilled level electronic and electrical work in the installation and repair of street light equipment; and performs other related duties.

DISTINGUISHING CHARACTERISTICS:

This is a journey level classification assigned to the maintenance of city street lights. Incumbents are required to have a thorough knowledge of street light maintenance gained through formal education in electrical trade school or from considerable and varied experience in working with the installation, maintenance and repair of electric and electronic devices or equipment.

EXAMPLES OF DUTIES:

1. Installs, relocates and repairs up to 480-volt street light systems.
2. Uses test equipment to locate wiring and to test voltage.
3. Repairs and/or replaces knockdowns; replaces broken and burnt out lamps and cleans lenses, and replaces fixture or ballast and starter as needed.
- ~~4. Works on and replaces poles. Performs Universal Service Alert (USA)'s utility locating and marking and is familiar with the color codes.~~
- 5.4. Frequently works alone at remote locations making critical decisions as to what type of emergency repairs to make to ensure the safe and free flow of traffic.
- 6.5. Operates or supervises operation of heavy equipment such as crane truck or, lift bucket truck, jack hammer, etc.
- 7.6. Investigates complaints and reports of street light malfunctions; adjusts, repairs or removes defective equipment, and makes field repairs of damaged equipment.
- 8.7. Performs a variety of electrical preventative maintenance checks to optimize the proper functioning of street light equipment.
- 9.8. Prepares and completes accurate work records and orders supplies, parts, and materials.
- 10.9. Consults with factory representatives and electrical engineers to identify and resolve technical problems.
- 11.10. Surveys all major streets at night to document lighting problems.
- 12.11. May be required to respond to after hours emergency conditions.
- 13.12. Performs other related duties as required.

WORKING CONDITIONS

- Work outdoors in all weather; around high-voltage electrical systems, traffic, noise, dust, fumes, and construction-zone hazards.
- Work at heights using bucket trucks, cranes, ladders, and occasionally in underground vaults or confined spaces.
- Operate vehicles, heavy equipment, and electrical testing tools; may work alone at remote sites and make emergency repair decisions.
- May work evenings, nights, weekends, holidays, and respond to after-hours emergencies.

PHYSICAL DEMANDS

- Perform heavy physical labor including lifting and carrying up to 50 pounds.
- Frequently stand, walk, bend, kneel, climb, and work in awkward positions or on uneven terrain.
- Use hands and tools for repetitive and precise electrical work; maintain balance when working at heights.

- Visual and hearing ability to read diagrams, identify wiring, operate equipment, and respond to surrounding hazards.

EMPLOYMENT STANDARDS:

Education/Experience:

Any combination equivalent to education and experience likely to provide the required knowledge and abilities. A typical way to obtain the knowledge and abilities would be:

Education: Graduation from high school supplemented by technical/vocational coursework in electronics, electrical maintenance, electrical circuitry and/or mechanics.

Experience: Two years of recent and progressively responsible experience in the maintenance, operation, and repair of electrical and series street light equipment.

Knowledge

Knowledge of maintenance, operation, and repair principles, practices and techniques of electronic and electrical components and circuitry; Uniform-National Electrical Code and other regulations pertaining to street light systems; Universal Service Alert mark and locate protocol and color coding system; problem-solving and troubleshooting to resolve complex electrical, electronic and/or mechanical problems; safe operation and maintenance of hand and power tools, light equipment, heavy motorized equipment, welding and torch equipment; effective lead worker and training techniques; appropriate occupational hazards and standard safety precautions necessary in electrical work.

Ability

Ability to learn and apply the City's policies, practices, and protocols; work independently and make decisions relative to work methods and tools; take the initiative to keep work progressing to completion within prescribed time limits; perform semi-skilled and skilled maintenance, repair, modification, inspection and testing of street lighting systems; safely operate trucks and other motorized equipment; understand and interpret written and oral instructions, including blueprints and wiring diagrams; safely use hand and power tools; perform heavy physical labor; prepare neat and accurate work and inventory records and write reports; make decisions and work in emergency situations, establish and maintain an organized work area; perform basic data entry using personal computers; work occasionally at hazardous heights and underground; lead and assign others in street light maintenance functions; establish and maintain effective working relationships; and exemplify an enthusiastic, resourceful, and effective customer service attitude with those contacted in the course of work.

Other Requirements

Possession of a valid Class B State of California Driver's License (or possession of a valid Class C license at the time of employment and the ability to obtain Class B within six months of employment) and a satisfactory driving record as conditions of initial and continued employment. Employees in positions requiring a Class B license are subject to provisions of the Department of Transportation's drug and alcohol testing program.

~~Possession of a valid California Class C Driver's License and a satisfactory driving record, as determined by the City of Alameda. Possession of a California Class A Driver's License with appropriate endorsements is required prior to the completion of the probationary period and satisfactory driving record as a condition of continued employment. Employees in positions requiring a Class A license are subject to provisions of the Department of Transportation's drug and alcohol testing program.~~

~~Willingness and ability to work scheduled and emergency overtime, may be asked to work shifts between 7:00am and 11:00pm; be available on call as required; wear/use appropriate safety equipment; work at heights of 25-30 feet, in confined and awkward spaces, and in heavy traffic; work special events as required; and attend meetings, training workshops and seminars during work and non-work hours as required.~~

R: 4/1/2026

Human Resources Department

