

LEAD TRAFFIC SIGNAL & LIGHTING TECHNICIAN

DEFINITION

Under supervision performs journey level work in the installation, maintenance and repair of traffic signals and street lighting systems; and leads and provides technical direction to other division personnel.

TASKS

Participates and lead the work activities of other traffic and lighting maintenance field personnel; Inspect, repair and maintain traffic signal controls and auxiliary equipment; diagnose malfunctions; adjust and replace electronic and mechanical components; Install, inspect, remove and repair street lights such as light standards, control boxes, light fixtures, lamps and circuitry; Repair, replace, or modify electric and electronic components, controllers, relays, switches, fuses, timers, and other parts.

Investigate complaints and reports of traffic light malfunctions; Assist in the design of electrical circuits and systems for street lighting and traffic signals; Inspects the work of contractors during the course of construction and upon completion; Troubleshoot and repair communications lines from computer to individual intersections; maintain computer map of intersections; Keep accurate records assignments status reports, supplies, parts, and other materials needed to perform duties.

KNOWLEDGE, SKILLS AND OTHER CHARACTERISTICS

Knowledgeable of methods, materials, tools and practices used in the repair of traffic signal and street lighting systems;

Knowledgeable of components and parts of electronic and mechanical devices used for traffic signal and street lighting;

Knowledgeable of quality principles of electrical system design and repair

Knowledgeable of occupational hazards and standard safety precautions

Skilled in understanding and interpret written and oral instructions, including blueprints and wiring diagrams;

Ability to work independently and make decisions relative to work methods and tools

Ability to prepare simple reports and work at heights

Ability to effectively communicate in verbally and in writing in English

WORK ENVIRONMENT AND PHYSICAL REQUIREMENTS

Work is performed in an outdoor environment. Work may require frequent standing, walking, bending and lifting up to 50 pounds. Incumbents may be exposed to repetitive motion, vision to monitor, extreme weather, moving traffic, construction sites, and toxic fumes and chemicals.

QUALIFICATIONS

Associates degree in Electronics or closely related field, **AND** four (4) years experience complex electrical maintenance and repair to include traffic signals systems and street lighting systems **OR** an equivalent combination of education and experience. Must possess at the time of application and maintain a valid California Driver's License. Incumbents in this position will be required to obtain and maintain level 2 Technician certification issued by the International Municipal Signal Association.