

Class Code: F04 + 660  
City of Anaheim  
Class Specification

Classification:  
TRAFFIC SIGNAL TECHNICIAN I/II

Definition: Under close to minimal supervision, to provide preventative maintenance of traffic controllers and troubleshooting communication cable connect to the Transportation Management Center; administer traffic signal maintenance contracts; inspect electrical work on traffic signals; set timing and make minor repairs to traffic signals.

Distinguishing Characteristics:

Traffic Signal Technician I - Positions in this classification perform at the entry/journey level of the Traffic Signal Technician job series. They include employees who have some related or prior occupational experience and will progress rather quickly toward performing the full range of duties of the Traffic Signal Technician II. Working under close supervision in a training mode, assignments are routine and repetitive in nature. Decisions are made within established procedural frameworks.

Traffic Signal Technician II - Positions in this classification perform at the journey level of the Traffic Signal Technician job series. They include employees who have substantial and directly related or prior occupational experience and perform the full range of duties assigned to the position. They work under moderate supervision with only guidance, instruction or assistance, frequently in the absence of a supervisor. Work is normally reviewed only upon completion and for overall results. This class is flexibly staffed and is normally filled by advancement from the I level or when filled from the outside, requires prior work experience.

ESSENTIAL JOB FUNCTIONS:

Performs preventative maintenance checks on traffic controllers operations and timing plans; conducts walking surveys and visual check of signal hardware.

Coordinates with the TMC on signal operations; troubleshoots, maintains and oversees installation of miles of communication cables, from pedestals, boot connections, aerial, to underground.

Assists in the design of localized traffic signal systems.

Performs field inspections of electrical work in new, modified, or relocated traffic signal controllers and appurtenances to ensure compliance with the City electrical code, and with the intended operations of the signal.

Maintains inspection log and related records.

Investigates complaints of malfunctioning or improper timing of traffic signals.

Adjusts timing and makes minor repairs to traffic signals.

Oversees the traffic signal maintenance contracts; directs, guides and checks work done by contractors, giving City standards and requirements.  
Maintains all signal timing records stored in cabinets.

Meets with contractors, manufacturers' representatives, engineers and field inspectors to resolve problems related to traffic signal operations; check plans.

Set signals, traffic loops on temporary safe timing at construction sites.

Responds to trouble calls and emergency situations on an on-call basis.

NON-ESSENTIAL JOB FUNCTIONS:

Provides information to the public concerning traffic related activities.

Orders and maintain traffic controller replacement part inventory.

Performs other job-related duties as required.

Job Related Qualifications:

Traffic Signal Technician I

Experience: Equivalent to some experience in traffic signal maintenance and troubleshooting, or a traffic signal level I technician certificate.

Knowledge of: Modern methods, materials, equipment and standards of traffic signalization and operations electrical work; electronic components and electrical code; traffic safety procedures, delineation with cones.

Ability to: Read and interpret plans, wiring diagrams, blue prints and technical regulations; learn computers and software used in traffic signal controllers; learn to maintain and troubleshoot communication cable and traffic signal operation with the TMC; deal diplomatically with contractors, the public, manufacturers and other City employees; learn to maintain accurate records; and establish and maintain effective working relationships with those contacted in the course of work. Ability of operate a forklift is desirable.

Physical Requirements: Ability to stand, walk, climb ladders, stoop, tour construction sites on foot, work in traffic congested areas, and work at heights of 45 feet from an aerial bucket.

License and/or Certification Required: Possession of, or ability to obtain, a valid California Driver's License by date of appointment. Possession of a Level I ISMA Certification Desirable.

Traffic Signal Technician II

In addition to the qualifications for the Traffic Signal Technician I:

Experience: Equivalent to some experience in traffic signal technician work involving troubleshooting and maintenance comparable to a Traffic Signal Technician I.

Knowledge of: Computers and software used in traffic signal controllers; proper computer software installation and change outs; communication cable maintenance and troubleshooting; and traffic signal procedures and operations with the TMC; testing equipment used in electrical and mechanical troubleshooting.

Ability to: Apply technical knowledge and follow proper traffic signal operation practices and procedures; determine priorities and make independent judgments in emergency situations; coordinate and review the work of traffic signal contractor in the field; bring a cabinet/controller on-line with the TMC; test and troubleshoot communication cable; communicate using a two-way radio.

Physical Requirements: Same as Traffic Signal Technician I.

License and/or Certification Required: Possession of, or ability to obtain a valid California Driver's License by date of appointment. A Level II ISMA Certificate is desirable.

Note: Incumbents will be required to work after hours "call-out" on a rotating basis after completion of probation and/or demonstrating ability to work under minimal supervision)

Supervision Received: Works under technical supervision of the Principal Traffic Engineer who gives general directions and periodically reviews work in progress and completed work.

Career Ladder Information: Experience in both these classes may serve to meet minimum requirement for promotion to Traffic Signal Technician III.

NOTE: The above statements are intended to describe the general nature and level of work being performed by persons assigned to this job. They are not intended to be an exhaustive list of all duties, responsibilities and skills required of personnel so classified. All requirements are subject to possible modification to reasonably accommodate individuals with disabilities.

Former Class Titles - Junior Traffic Signal Technician  
Traffic Signal Technician

Revised 10/85 - R. Andersen & Assoc.

Revised 5/90 - C. Harris

Revised 5/96 - V Kilmurray

Revised 9/99 - V. Kilmurray

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