CITY OF FOLSOM

SENIOR TRAFFIC CONTROL & LIGHTING TECHNICIAN

DEFINITION

Under direction, lead and perform the more complex skilled electronic, electro-mechanical, microprocessor control, and electrical work in the installation, modification, maintenance, and repair of traffic signals and lighting control equipment. Incumbents may oversee, monitor, and/or direct the work of lower level personnel.

DISTINGUISHING CHARACTERISTICS

The Senior Traffic Control and Lighting Technician is the lead or specialist level in the Traffic Control & Lighting Technician series. In the lead assignment, incumbents provide direction to lower level staff including assigning, directing, and reviewing the work of staff. In the specialist assignment, incumbents work on specialized projects containing a high number of complex and difficult tasks and assignments. Positions at this level are distinguished from those in the lower level classification of Traffic Control & Lighting Technician I/II by the independence with which they perform their duties of handling the more difficult and complex work and performing lead work. This class is distinguished from the class of Traffic Control & Lighting Supervisor in that the latter serves as the full supervisor of incumbents in the lower levels of the series and performs the most difficult, complex, and sensitive work.

EXAMPLES OF ESSENTIAL DUTIES

NOTE: The following are the duties performed by employees in this classification. However, employees may perform other related duties at an equivalent level. Each individual in the classification does not necessarily perform all the duties listed.

- Assign and monitor the work of lower level staff within the series.
- Handle the more difficult and complex installation, modification, maintenance, and repair projects.
- Inspect signal controls, auxiliary equipment, and street lighting equipment to diagnose malfunctions; adjust and/or replace electronic, electrical, or mechanical components; and relamp traffic signals and street lights.
- Repair, replace, or modify signal head components, controllers, relays, switches, fuses, timers and cabinet parts; design and construct special test equipment for shop testing of electronic components.
- Perform street cut operations at designated signal locations.
- Set out barricades and traffic cones and re-route traffic as necessary for safe operations.
- Diagnose and repair electronic, electro-mechanical, and microprocessor controlled parking control equipment and periodically perform preventative maintenance and testing.
- Maintain schematic drawings, operations manuals, and problem and repair logs on related parking equipment.

- Perform related duties as assigned.

EMPLOYMENT STANDARDS

NOTE: The level and scope of the knowledge and abilities listed below are related to job duties as defined under the "Examples of Essential Duties" of this specification.

Knowledge of:

- Principles and practices of the installation, maintenance, and repair of complex electronic and electrical devices used in traffic control.
- Principles, methods, practices, materials, and tools used in the repair of electronic, electrical, and mechanical devices.
- Components and parts of electronic and electrical devices used in street lighting and traffic control.
- Principles of solid-state electronics and high voltage electricity.
- Occupational hazards and safety rules, regulations, and practices required in electrical and electronic work.

Ability to:

- Lead technical/paraprofessional personnel.
- Provide technical advice to subordinate personnel in solving difficult problems or assignments.
- Install, maintain, and repair the most complex electronic and electrical traffic control devices.
- Read and interpret plans, detailed drawings, schematics, and wiring diagrams.
- Prepare and maintain records.
- Utilize electronic and computerized test equipment, such as voltmeters, signal generators, oscilloscopes, insulation testers, frequency counters, and other related meters to locate malfunctions in control equipment.
- Operate a personal computer and other electronic equipment, including field devices and cellular phones.
- Understand and follow complex and detailed verbal and written instructions.
- Effectively communicate verbally and in writing.
- Establish and maintain effective working relationships with those contacted in the course of work.

Minimum Qualifications:

Education:

One year of full-time college level training in electronics may be substituted for one year of the required experience.

Experience:

Two (2) years of experience as a Traffic Control & Lighting Technician II with the City of Folsom.

OR

Experience:
Seven (7) years of full-time experience maintaining and repairing electrical and solid state electronic hardware, computers, or related equipment, including five years working on traffic signal control and/or street lighting equipment.

Substitution:
Additional qualifying experience can substitute for the required education on a year-for-year basis.

License, Certificate, Registration Requirements:

Persons hired into the class of Traffic Signal Technician I must possess the International Municipal Signal Association (IMSA) Traffic Signal Technician I Certification.

Persons hired into the class of Traffic Signal Technician II must possess the International Municipal Signal Association (IMSA) Traffic Signal Technician II Certification.
Persons hired into the class of Senior Traffic Signal Technician must possess the International Municipal Signal Association (IMSA) Traffic Signal Technician III Certification and the International Municipal Signal Association (IMSA) Roadway Lighting Certification.

At the option of the City, persons hired into these classes may be required to either possess at entry or obtain within specified time limits, designated licenses, certificates or specialized education and training relevant to the area of assignment. Additional requirements for all levels may include, but are not limited to the following:

- Fiber Optics Installation Certification
- International Municipal Signal Association (IMSA) Traffic Signal Inspection Certification
- International Municipal Signal Association (IMSA) Traffic Signal Technician Certification at a level higher than described above
- Qualified Applicators Certificate or License for pesticide application
- California Class “A” Drivers License
- California Commercial “B” Drivers License with tanker and airbrake endorsements or with passenger endorsement
- International Municipal Signal Association (IMSA) Traffic Safety Specialist in Traffic Safety
- International Municipal Signal Association (IMSA) Signs and Markings Level I or II
- International Municipal Signal Association (IMSA) Traffic Safety Specialist and Traffic Safety Through Work Zones Certificates
- Cardio-Pulmonary Resuscitation (CPR)
- First Aid Certification

- Industrial Emergency Council (IEC) Confined Space Entry, Awareness and Rescue Certificate
- Forklift Certification

Physical Requirements:
Work is performed in a typical outdoor environment on a year-round basis. (1) Mobility: frequent performance of manual labor; frequent standing for long period of time; frequent bending and squatting. (2) Lifting: frequent lifting up to 50 pounds; occasional lifting up to 75 pounds. (3) Vision: constant use of overall vision. (4) Dexterity: frequent grasping, holding, and reaching. (5) Hearing/Talking: frequent hearing and talking, in person and on the phone. (6) Emotional/Psychological: frequent coworker contact; occasional working alone. (7) Environmental: frequent exposure to loud noise; frequent exposure to chemicals, fumes, and other environmental substances.

Other Requirements:
Must be willing to work weekends and holidays.

Information Block

Class Code:
FLSA Status:
Established:
Revised:
Retitled:
Workers Compensation Code
Bargaining Unit: