



JOB DESCRIPTION

Traffic Signal Maintenance Technician

Date Prepared: March, 2017

SUMMARY: Under general supervision, performs preventive maintenance and repair of traffic signals and street lights within the City; performs related duties as required.

ESSENTIAL FUNCTIONS: -- *Essential functions, as defined under the Americans with Disabilities Act, may include any of the following representative duties, knowledge, and skills. This is not a comprehensive listing of all functions and duties performed by incumbents of this class; employees may be assigned duties which are not listed below; reasonable accommodations will be made as required. The job description does not constitute an employment agreement and is subject to change at any time by the employer. Essential duties and responsibilities may include, but are not limited to the following:*

- Perform preventive maintenance on traffic signals and street lights.
- Inspect and test equipment using automated software.
- Check for proper operations of various components.
- Check the condition of wiring connections.
- Clean and paint.
- Troubleshoot and perform repairs/modifications on traffic control/street light devices, electrical circuits, and underground raceways.
- Repair and inspect traffic signal and street light systems.
- Diagnose malfunctions with signal and street light systems.
- Maintain parking lot lighting systems, City yard gates, park and ride lighting, and transit center lights.
- Maintain cross walk and school flashing beacons.
- Prepare and maintain various reports and records.
- Respond to emergency and/or damage situations.
- Perform emergency standby duty, during non-duty hours, as assigned.

MINIMUM QUALIFICATIONS:

Education, Training and Experience Guidelines:

High school diploma OR GED equivalent supplemented by coursework in basic electrical and electronics AND two years of electrical and or traffic signal maintenance and street lighting experience OR an equivalent combination of education, training, and experience. International Municipal Signal Association (IMSA) traffic signal certification level I may substitute for one year of traffic signal maintenance experience.

Knowledge of:

- City policies and procedures.
- Traffic control signing and striping operations.
- California Traffic Manual.
- Institute of Transportation Engineers (ITE) signal design and operations.
- Manual on Uniform Traffic Control Devices (MUTCD).
- Traffic signal timing and coordination operations.
- Alternating Current/ Direct Current (AC/DC) theories.
- Principles and practices of electronic/electrical troubleshooting.

- Principles and practices of traffic signal and traffic control design.

Skill in:

- Using initiative, discretion, and judgment within established procedures, guidelines, and rules.
- Defining problems, establishing facts, and drawing valid conclusions.
- Managing situations requiring diplomacy, fairness, firmness, and sound judgment.
- Reading and interpreting blueprints, plans, maps, schematics, and specifications.
- Providing efficient customer service.
- Communicating effectively, both verbally and in writing.
- Operating a personal computer and various software applications.
- Establishing and maintaining cooperative working relationships with supervisors, employees, contractors, vendors, suppliers, external public agencies, and the general public.
- Applying safe work practices.

LICENSE AND CERTIFICATION REQUIREMENTS:

- Must possess a California Class “B” Commercial driver’s license upon hire and must maintain throughout the length of employment with the City of Victorville.
- Must obtain (IMSA) traffic signal certification level I within one year.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT:

Work is performed primarily in an outdoor work environment with exposure to wide temperature variations, noise, vibrations, fumes, odors, dust, machinery, and its moving parts. Incumbent must be physically able to perform strenuous work on a regular basis. Physical demands are light to moderate, consisting of sitting, using hands and fingers to handle or feel objects, tools, or controls; reaching, standing, walking, stooping, kneeling, crouching, and crawling; May have exposure to live electrical wires. May be required to climb ladders and work in trenches. May have some exposure to and extreme weather conditions. May be required to lift and carry items weighing up to 100 pounds; occasionally exposed to electric hazards. Incumbent wears Personal Protective Equipment (PPE); specific vision capacity includes: close, distance, peripheral, depth perception, color differentiation, and the ability to adjust focus. Incumbent must be able to hear in the normal range, with or without correction; must have the stamina to work long hours and overtime, if assigned; must be willing to work an irregular schedule, which may include weekends, holidays, nights or varying shifts. Incumbent may be required to respond to callouts and emergencies during non-duty hours, on weeknights, weekends, and holidays.

Department Head

Date

Personnel Officer

Date