



JOB DESCRIPTION

Senior Traffic Signal Maintenance Technician

Date Prepared: August, 2014

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

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:*

- Inspect and 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 and modifications on traffic control and street light devices, electrical circuits, and underground raceways.
- Diagnose malfunctions with signal and street light systems.
- Maintain parking lot lighting systems, automatic gates, and the Old Town Archway.
- Inspect red flex cameras.
- Maintain cross walk and school flashing beacons.
- Assist in the maintenance of Safe City cameras.
- Provide technical assistance to less experienced staff to resolve operational issues and concerns.
- Prepare and maintain various reports and records.
- Conduct cross walk training at schools.
- Participate in the annual Public Works Day.
- Perform special projects, as assigned.
- Maintain confidentiality of work-related issues and City information; perform other duties as required or assigned.

MINIMUM QUALIFICATIONS:

Education, Training and Experience Guidelines:

High school diploma OR GED equivalent, INCLUDING 30 college semester units of course work in basic electrical and electronics AND two years of traffic signal maintenance experience; OR an equivalent combination of education, training, and experience. Traffic signal certification above level II or one year of additional traffic signal maintenance experience may substitute for up to 15 college semester units.

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.
- Principles and practices of project management.

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 managers, supervisors, employees, contractors, vendors, suppliers, external public agencies and the general public; applying safe work practices.

LICENSE AND CERTIFICATION REQUIREMENTS:

- Possession of a valid California Class "B" Commercial driver's license or ability to obtain within six months and must maintain throughout the length of employment with the City of Victorville.
- International Municipal Signal Association (IMSA) Traffic Signals Field Electrician I and ability to obtain level II within six months.

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; occasional exposure to hazardous conditions and harsh chemicals. 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 dangerous machinery, 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