

POSITION DUTY STATEMENT

PM-0924 (REV 10/2002)

CLASSIFICATION TITLE CALTRANS ELECTRICAL SUPERVISOR	OFFICE/BRANCH/SECTION 07-740/MAINTENANCE/SPECIAL CREWS/ POMONA ELECTRICAL	
WORKING TITLE CALTRANS ELECTRICAL SUPERVISOR	POSITION NUMBER 907-740-6925	EFFECTIVE DATE

As a valued member of the Caltrans team, you make it possible for the Department to improve the mobility across California by being innovative and flexible: reporting to work as scheduled; working cooperatively with team members and others; and treating others fairly, honestly and with respect. Your efforts are important to each member of the team, as well as those we serve.

GENERAL STATEMENT

The Caltrans Electrical Supervisor receives general direction on policies and procedures from the Caltrans Maintenance Manager II and general supervision from the Caltrans Electrical Area Superintendent. The position is responsible for the Levels of Service on Electrical inventory items in the Pomona Electrical Cost Center in District 7. Enforces safety and health policies and procedures as contained in the Department's Injury and Illness Prevention Program; knowledge of environmental, storm water, emergencies, natural disasters, accident prevention techniques, principle's of effective supervision and safe work practices. Supervisor is responsible for the review and proper maintenance/operation of assigned equipment. Supervisor is responsible for the training, safety, upward mobility, maintaining discipline, and administrative transactions of employees assigned to the area of responsibility. Must have possession of a valid Class "C" Drivers License.

TYPICAL DUTIES:**Percentage****Essential (E)/Marginal (M)**

40% (E) Incumbent is responsible for directing and overseeing the installation, maintenance, construction, repair of electrically or electronically operated devices, and various electrical and electro-mechanical equipment on State highways. This includes traffic signals, highway lighting, illuminated signs, flashers, tunnel lighting, ramp metering, weigh stations, truck escape ramps, park and rides, motors, building lighting, heating and air conditioning systems. Lays out and assigns work to crewmembers and personally performs difficult technical work in connection with the repair or modification of traffic signal control devices. Inspects fieldwork performed by electrical crews; may inspect for proper operation and installation of contracts and permits for compliance with Standard Plans and Specifications. Recommends acceptance or rejection after inspection.

- 30%** (E) Assist in coordinating electrical work with other Cost Centers, Regions, Construction and Traffic Departments. Analyze information provided by the IMMS system and make appropriate decisions from this information. Designs special circuits and wiring systems as required. Make drawings of schematics, wiring diagrams, intersections, phase-diagrams, and corrections of them. Instructs and trains subordinates and evaluates their performance; makes estimates of cost; orders supplies and equipment; input cost center's time into computer, extract reports and other information from computer, maintains records and prepares reports. Respond to maintenance inquiries from public and/or other Caltrans departments. Attend meetings and training classes as required. Handle complaint calls.
- 25%** (E) Do field reviews of electrical maintenance operations for safety, traffic control and levels of service. Responds to electrical emergencies and evaluate the situation and takes appropriate action. Promotes and enforces CAL/OSHA and safety rules and regulation; the National Electric Code and the District Maintenance Code of Safe Practices.
- 5%** (M) In the absence of the Electrical Area Superintendent, or when assigned, may represent the Superintendent at meetings, functions, public contacts and other daily duties of the Superintendent.

SUPERVISION EXERCISED OVER OTHERS:

The Caltrans Electrical Supervisor is responsible for planning and scheduling of the work that is necessary for the efficient use of personnel and equipment. He/she supervises a crew comprised of seven to ten employees. May directly supervise private contractors performing standard and emergency work or services.

KNOWLEDGE, ABILITY, AND ANALYTICAL REQUIREMENTS:

The person must have strong knowledge of electrical theory and practice, including power, lighting and control circuits; materials, methods, and equipment used in the installation, maintenance, and repair of electric and electronic devices, particularly as pertains to the repair of highway traffic signal and lighting and bridge electrical systems; methods, materials and equipment used in electrical construction repair; electronics as applied to traffic signals and other control and measuring devices; and the Electrical Safety Orders of the Division of Industrial Safety and of the safety precautions required in the installation of traffic control devices. Ability to direct and coordinate the work of electrical crews; read and interpret plans, detail drawings and wiring diagrams.

Understands and applies principles of personnel management and supervision, and the Department's EEO policies. Prepare estimates and specifications, and to anticipate material and equipment needs; maintain effective cooperative relations with those contacted in the work, and to direct the work to others. Know and understand the supervisor's role in safety-health-labor relations to meet these program objectives.

Know and understand the provisions of the California Vehicle Code as it pertains to the loading and operation of motor vehicles; and rules and regulations pertaining to highway maintenance

practices. Must have the ability to work safely around high-density traffic and at various heights above traffic. Must have the ability to work effectively alone or with others.

Must be able to analyze work situations effectively and make sound decisions. Must be able to communicate well verbally, electronically, and in writing, with all levels of maintenance management. Must have the knowledge and understanding of Department Policies, Procedures, and Directives that pertain to Maintenance activities. Must have a good understanding of the Employee Assistance Program, Caltrans Hiring Guide, Procurement Manual, Storm-Water Program, Emergency Response Plan, Caltrans Guide to employees Conduct and Discipline, Equal Employment Opportunity Policy, Cal Card Policy, Lane Closure Procedures, Equipment Policies, Travel and Expense Guide and Bargaining Unit 12 Craft and Maintenance Agreement.

Must have a good understanding of the Department's functions and resources. Must possess a thorough knowledge of statewide Maintenance functions and the purpose, mission, vision and goals, as well as the organization and procedures of the Department of Transportation.

Must be familiar with the various resources needed to properly prepare reports concerning Maintenance Programs. Must have the ability to reason logically, analyze complex problems and develop sound recommendations. Must have demonstrated ability to take initiative in problem solving.

CONSEQUENCE OF ERROR/RESPONSIBILITY FOR DECISIONS:

Error may expose co-workers and/or the public to possible injury or loss of life. Error may also cause an inefficient use of time and tax dollars through extra expense in the maintenance of highways, or damage to State equipment and facilities. Error may expose the State to liability for damages to public property and delay in project delivery.

PUBLIC AND INTERNAL CONTACTS:

Maintain good relations with the public, Caltrans employees and employees/ representatives of other government agencies. May have daily contact with other public agencies and private individuals in the course of their assignment. This person when in contact with a hostile person is expected to maintain a favorable public image for the Department and the State.

PHYSICAL, MENTAL AND EMOTIONAL REQUIREMENTS:

A considerable part of this position is of an analytical nature. This employee must be able to use established methods to analyze existing work standards and develop new standards as needed. Analyze the use of employees, equipment and materials for specific maintenance operations and be able to review costs and formulate unit cost information. This position is mentally intensive. This person must be able to interact well with employees and individuals from many different cultural backgrounds. Must also have physical ability to react quickly to errant motorist and other emergencies in the field.

Note: For standing, walking and sitting, along with several other activities, typical duties are used as examples in various situations to give ranges for the activities. Generally, activities can

be broken down into an analytical nature 85% of the time on a year-around basis. The remainder of the activity is labor.

Standing, Sitting and Walking is described to equal 100% of the work time for a given period such as a work shift. The following are various situations and percentages given to illustrate typical ranges of time spent sitting, standing and walking.

Lifting (Floor to bench to Floor) – Items up to 50lbs may be lifted (5%) of the time.

Carrying – Bagged/boxed material, which may weigh up to 50 pounds and be moved from storage areas to vehicles and from vehicles to job sites. These items may be moved on uneven terrain. Tools are moved a few feet to 100 yards and weigh a few ounces to 25 lbs. This may be done (5%) of the time.

Overhead reaching – Overhead work includes filing, material storage and removal. This may occur (2%) of the time.

Other Reaching – May include filing, using computer keyboard, or telephone. This may occur (50%) of the time.

Pushing/Pulling – May include filing, opening and closing of doors or drawers. This may occur (50%) of the time.

Twisting -- May include lifting, filing, using computer, or telephone. This may occur (50%) of the time.

Climbing/balancing – Climbing up and down banks, ladders, stairways, and in and out of equipment.

Bending/Crouching/Squatting/Crawling – May bend/crouch or squat while inspecting the work of his employees or the work of a contractor. This may occur (10%) of the time.

Simple Grasping – Writing, filling out paperwork, filing, opening or closing items and the use of a computer. These activities are necessary about (95%) of the time.

Fine Manipulation – Usually done while writing reports or manipulating the keyboard of a computer. This occurs (95%) of a day.

Importance of hearing and sight – These both are essential in order to work safely on the job because of how close this person will be working next to fast moving traffic or large equipment. It will be necessary for this employee to work nights from time to time and must have good night vision to be able to perform work safely.

Hearing should be adequate with or without a hearing aid to hear warning devices used for worker safety, i.e. look out alarm devices, including vehicle horns used to warn employees of eminent danger at the work site. As per Chapter 13 of the Caltrans Injury Illness Prevention program Safety Manual.

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