

POSITION DUTY STATEMENT

PM-0924 (REV 03/2006)

CLASSIFICATION TITLE CALTRANS ELECTRICIAN II	OFFICE/BRANCH/SECTION 04/Maintenance/Specialty Region	
WORKING TITLE Caltrans Electrician II	POSITION NUMBER 904-760-6924-XXX	EFFECTIVE DATE 02/11/2014

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: (BRIEF SUMMARY OF THE MAIN PURPOSE AND FUNCTIONS OF THE POSITION. DESCRIBE THE SUPERVISORY RELATIONSHIPS (INCLUDING THE CLASSIFICATION OF THE SUPERVISOR OR MANAGER TO WHOM THE INCUMBENT REPORTS.) WHEN APPROPRIATE, IDENTIFY THE NEED FOR ANY CREDENTIAL OR LICENSE (SUCH AS A DRIVERS' LICENSE.)

This position is considered the full journey level for this class. Under direction of a Caltrans Electrical Supervisor incumbents are responsible for the installation, maintenance, troubleshooting and repair of electrical and electronic devices associated with state facilities. Incumbents may also perform lead work as required involving but not limited to, office duties, and lower level electrical positions. This position requires the operation of light trucks, personnel hoists, vans and automotive vehicles. Incumbent may drive heavy trucks, if properly licensed. With training and certification where necessary, incumbent may be required to operate equipment such as trenchers, forklifts, air quality monitors, hoists and cranes. Incumbents will be assigned to swing or night shift positions, and will work independently to perform the duties assigned this class. Employee will need to establish a safe work environment. Employee will be required to respond to emergency callouts before and after working hours, including holidays and weekends. Must possess a valid Class C driver's license, Class A or B highly desirable.

TYPICAL DUTIES: (BRIEF DESCRIPTION OF IMPORTANT DUTIES. RELATED DUTIES MAY BE GROUPED TOGETHER. USE ADDITIONAL SHEET IF NECESSARY.)

Percentage	Job Description
Essential (E)/Marginal (M) ¹	

60% (E) Incumbent may be required to construct, maintain, troubleshoot and repair traffic signal systems, changeable message signs, extinguishable message signs, ramp metering systems, traffic count equipment, video surveillance and detection equipment, highway advisory radio equipment, building electrical systems, pumping plants, stationary bridge systems, movable span bridge equipment, scale house systems, rest area systems, and highway lighting equipment. Incumbent may be required to work on and around high voltage equipment and switchgear up to 12,000 volts (high voltage equipment is disconnected from source and locked out prior to work being performed on systems). Work on stationary bridge systems may include, but not be limited to, toll collection equipment, highway call box systems, remote supervisory systems, storage battery systems, telephone systems, navigation air and warning systems, fog detection systems, airway navigation systems, HVAC, transformers, sub-station control centers, engine driven generators and carbon monoxide analyzers.

20% (E) Incumbent may be required to inspect and operate equipment utilized in the performance of electrical work associated with state facilities. Equipment will include, but not be limited to, light trucks, personnel hoists, trenchers, backhoes, forklift, pavement saws, pipe threading equipment, conduit benders, voltage meters, resistance meters, amperage meters, high potential tester, hit-sticks, power monitoring equipment, air quality monitoring equipment, manual digging tools, electrical hand tools and battery test equipment.

15% (E) Incumbent may be required to make materials acquisition requests, cost estimates and repair time projections. Incumbent may be required to attend meetings pertaining to state electrical facilities and provide concise, accurate reports regarding issues discussed. Incumbent may be required to act as a lead worker and train less experienced personnel in the duties required of a Caltrans Electrician. Incumbent may be required to maintain work logs, daily time keeping and maintenance records, and provide for input of it to computer databases. Incumbent may be required to attend state provided training classes, pertinent to the maintenance activities associated with state facilities and achieve certification status where necessary.

5% (M) Incumbent may be required to remove graffiti from light poles, cabinets and other electrical facilities. Incumbent may be required to clean and paint electrical facilities. Incumbent may be required to wash state owned vehicles. Incumbent may be required to independently load and unload materials and equipment into a state vehicle or building.

¹ ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned
MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others

SUPERVISION OR GUIDANCE EXERCISED OVER OTHERS

Incumbent may function in a lead worker capacity when assigned by the supervisor and when working with less experienced electrical personnel.

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KNOWLEDGE, ABILITIES AND ANALYTICAL REQUIREMENTS

Knowledge: Safety precautions and work procedures required in the maintenance and installation of traffic signal systems, stationary bridge systems, movable span systems, building code, highway information systems, highway lighting systems, pump plants and rest areas.

Abilities: Make rough sketches and drawings related to electrical work. Read and interpret standard plans, specifications, schematics, maintenance manuals and manufacturer requirements. Estimate, order and install materials and generate written work reports.

Troubleshoot and repair state facilities. Work independently, but be able to establish effective communication and cooperation with other personnel assigned to a project. Inspect and write detailed reports regarding electrical projects. Instruct unskilled and semi-skilled assistants. Act as a lead worker. Establish a safe work environment.

RESPONSIBILITY FOR DECISIONS AND CONSEQUENCES OF ERROR

Errors in judgment, decision making and troubleshooting skills could effect public safety or result in tort liability for the department. The work environment could also be rendered unsafe for employees involved in the project.

PUBLIC AND INTERNAL CONTACTS

Incumbent will routinely contact or interact with other Caltrans personnel, contractors, engineering consultants and the general public. These contacts may take the form of verbal or written communications relating to the assignment.

PHYSICAL, MENTAL, AND EMOTIONAL REQUIREMENTS

Physical: Incumbent must be physically capable of utilizing writing instruments, hand tools, manual digging tools and electric tools. Incumbent may be required to bend, stoop, twist, power grasp, use fine manipulation, stand, sit, squat, lift and pull during performance of their duties. Incumbent must have good balance for walking on uneven surfaces, climbing ladders, climbing scaffolding and working on other structures associated with state facilities. Incumbent should have visual and color acuity adequate for performing the essential functions of the job.

Mental: Incumbent must be capable of understanding and performing the essential functions of the job in a reasonable and prudent manner, using logic and deductive skill to provide an end product that is safe and usable.

Emotional: Incumbent must have capacity for stable and reasonable interaction with supervisors, fellow workers, and the general public during the performance of their duties.

WORK ENVIRONMENT

The Caltrans Electrician II may work under various climates and conditions. Work may be performed inside of climate controlled buildings, but most operations will take place alongside, over or upon state highways and right of way. The incumbent will be exposed to noise, inclement weather, dirt, odors, uneven surfaces, heights up to 550 ft above pavement or water, confined spaces, concrete products, cleaning solvents, high speed traffic conditions and moving construction equipment. The incumbent must be willing to work odd hours, weekends and be available for trouble calls outs.

I have read, understand and can perform the duties listed above. (If you believe you may require reasonable accommodation, please discuss this with your hiring supervisor. If you are unsure whether you require reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the Reasonable Accommodation Coordinator.)