

JOB DESCRIPTION



ELECTRICAL ENGINEERING TECHNICIAN II

(Journey Level)

DEFINITION

Under general supervision, to perform a variety of subprofessional office and field engineering work in the planning, design, construction, operation, and maintenance of an electrical distribution system; to assist other engineering staff in the performance of office and field engineering work; and to perform related work as assigned.

The Electrical Engineering Technician II is the skilled class in this subprofessional engineering series. An increased level of experience, expertise and responsibility is required above the Electrical Engineering Technician I position which demonstrates a journey level of proficiency.

EXAMPLES OF DUTIES:

These examples are intended only as illustrations of the various types of work performed in positions allocated to this class. The examples of work performed are neither restricted to or all-encompassing of the duties to be performed under this job title. **(E) Essential Duty; (M) Major Portion of Time**

- Prepare detailed plans, specifications, and cost estimates in connection with the construction, maintenance, or removal of a variety of electrical facilities such as service drops, line extensions, transformers, meters, switch gear, and street lighting. (E-M)
- Determine proper wire sizes and metering equipment. (E)
- Determine transformer sizes and combinations for given loads on the distribution system. (E)
- Maintain electrical and traffic system maps and records. (E-M)
- Obtain easements for electric system facilities. (E)
- Inspect the installation of electrical substructures and equipment. (E-M)
- Respond to citizen complaints and questions.
- Coordinate electrical distribution system, traffic signal, and street lighting activities with other City departments and divisions, and with outside agencies. (E)
- Other duties as assigned.

QUALIFICATIONS

Knowledge of:

- Methods and materials used in the construction, operation, and maintenance of an electrical distribution system.
- Fundamentals of electrical engineering.
- Safety practices and regulations.
- Mathematics including algebra, geometry, and trigonometry.
- Methods and tools of drafting.
- Computer applications, including Computer Aided Drafting and Design (Autocad, Genericad).

Ability to:

- Review plans and documents for conformance to regulations.
- Gather data and make accurate engineering computations.
- Prepare plans and specifications, neatly and accurately.
- Prepare and carry out oral and written instructions with minimum of supervision.
- Establish and maintain cooperative relationships with those contacted in the course of work.
- Lift and carry twenty-five (25) pounds on occasion.
- Tolerate changes in outside temperature from winter to summer and tolerate dust, pollen, wind and rain.
- Sit or stand for long periods of time.
- Walk on uneven or steep ground.

Experience:

Minimum of four years of increasingly responsible experience in the construction, operation, and maintenance of an electrical distribution system.

Education:

- Completion of an Associate Degree, including or supplemented by courses in basic electricity, algebra, geometry, and trigonometry. A Bachelors degree in electrical engineering with an emphasis on power desirable.
- Employees in this classification shall have the individual choice whether or not to obtain the Rubber Glove training and certification to become eligible for 6% Qualified Rubber Glove Observer incentive pay.

Necessary Special Requirement:

Possession of a Class C California Driver's License.

Residency Requirement:

All members of the Electric Unit shall be expected, within six months of hire, to establish residence allowing response to the Electric Shop within 35 minutes of notification to report.

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