

**CLASS SPECIFICATION**  
**SAN DIEGO CITY CIVIL SERVICE COMMISSION**  
**ASSISTANT ENGINEER – ELECTRICAL - 1157**

**DEFINITION:**

Under general supervision, to perform journey-level professional electrical engineering, design, and inspection work; to check complex building plans for electrical design; and to perform related work.

**\* EXAMPLES OF DUTIES:**

- Performs journey-level electrical or electronic engineering designs and calculations;
- Prepares plans, estimates, and specifications for electrical or electronic contract work involving traffic signals, telemetering, radio communications systems, street lighting, parking lot and recreation field lighting, pumping plants, and structures;
- Administers and inspects the construction of electrical upgrade projects, traffic signals, and street lighting to ensure compliance with plans, specifications, and contract requirements;
- Consults with department representatives and other agencies on electrical or electronic engineering problems;
- Checks plans and specifications developed by consultants;
- Performs project site visits;
- Performs construction material evaluation/testing;
- Inspects major electrical or electronic contract work; checks material lists to ensure conformance with specifications; makes field investigations and surveys;
- Prepares calculations for photometrics, power, and energy studies and load characteristics;
- Utilizes Geographic Information System (GIS) applications;
- Utilizing Splash, Sharq, SAP, and other software to post and update project information and schedules and managing financial aspects of an engineering project;
- May supervise and check the work of subordinate engineers and drafting personnel;
- Checks complex building plans for conformance to applicable electrical regulations and calculates electrical adequacy;
- Prepares reports and written recommendations, and updates project files;
- Prepares sketches, layouts, material lists, and cost estimates;
- Coordinates construction activities with other agencies and citizen groups.

**MINIMUM QUALIFICATIONS:**

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

- \* EXAMPLES OF DUTIES performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.**

College graduation with a Bachelor's Degree in Electrical Engineering or a closely related engineering field, **OR** certification as an Engineer-in-Training, **OR** registration as a professional Electrical Engineer with a State licensing board; **AND** two years of full-time professional electrical engineering experience in at least two of the following as a primary job function: 1) energy management; 2) building, construction, energy, or control systems design and preparation of design specifications; 3) managing electrical, energy, or control systems engineering projects to design public works projects, industrial or commercial systems, and/or wastewater treatment systems; and/or 4) field engineering to inspect and solve complex electrical engineering or public works project problems.