

**CLASS SPECIFICATION**  
**SAN DIEGO CITY CIVIL SERVICE COMMISSION**  
**ASSISTANT ENGINEER – CORROSION – 1154**

**DEFINITION:**

Under general supervision, to perform journey-level corrosion control engineering work; to lead the work of outside corrosion control consultants; and to perform related work.

**DISTINGUISHING CHARACTERISTICS:**

This is the journey-level class in the corrosion engineering-series. Incumbents in this class are expected to perform their duties with only occasional instructions or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the department.

\* **EXAMPLES OF DUTIES:**

- Prepares engineering designs and specifications for corrosion control systems;
- Develops larger designs for corrosion control approaches;
- Creates and implements test protocols for existing corrosion control devices and coatings;
- Prepares technical engineering studies and bid documents;
- Performs design and repair projects to replace existing cathodic protection systems;
- Performs cathodic protection that is directly involved in the design and construction phase of projects;
- Assists in data analysis;
- Writes routine reports and specifications;
- Performs field investigations and inspections;
- Assists in performing in-depth corrosion studies and evaluations to determine the extent of corrosion and necessary mitigation;
- Prepares engineering calculations of the effects of various corrosion control processes;
- Inspects corrosion control coatings at off-site materials production plants for acceptance by the City;
- Assists in planning, developing, maintaining, and implementing a Citywide corrosion mitigation program for the City's water and wastewater facilities;
- Supervises and reviews the work of subordinate personnel;
- Performs related duties.

\* **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.

**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>.

Bachelor's Degree in Civil, Electrical, Mechanical Engineering, or a closely related engineering field; **OR** Engineer-in-Training (EIT) Certificate issued from a state licensing board; **OR** registration as a Professional Civil, Corrosion, Electrical, or Mechanical Engineer with a state licensing board, **AND** two years of full-time professional corrosion engineering experience which must include preparation of design drawings and development of specifications for cathodic protection systems and field inspection, testing, and troubleshooting of cathodic protection systems. Possession of a valid California Class C Driver's License.