

**CLASS SPECIFICATION**

**SAN DIEGO CITY CIVIL SERVICE COMMISSION**

**PRINCIPAL CORROSION ENGINEERING AIDE - 1812**

**DEFINITION:**

Under general supervision, to perform a variety of subprofessional corrosion engineering work of average difficulty; to supervise the inspection, installation, and problem solving for corrosion engineering work; to supervise the preparation of a variety of corrosion engineering documents and records; and to perform related work.

**\* EXAMPLES OF DUTIES:**

- Performs a variety of corrosion engineering work in connection with cathodic protection system monitoring, inspection, data acquisition, and interpretation;
- Prepares reports to summarize field activities, project updates, and field test results;
- Prepares and implements maintenance and operative schedules for cathodic protection systems for the City's infrastructure;
- Compiles, collects, and interprets corrosion data; records, analyzes, and interprets test data such as pipe-to-soil potentials, anode current outputs, stray currents, and soil resistivity;
- Investigates corrosion causes and mechanisms;
- Assists professional engineers with facility and construction corrosion control inspections, failure analysis, and cathodic protection system troubleshooting;
- Provides technical assistance on electrical problems and protective coating issues;
- Assists in the development of specifications and drawings for the operation and maintenance of cathodic protection systems and process equipment for corrosion control purposes;
- Assists with the maintenance of corrosion control equipment;
- Leads and/or trains subordinate staff;
- Coordinates, reviews, and evaluates laboratory test analysis of field test samples.

**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 Announcement for updated minimum qualifications.

Completion of a minimum of 30 semester/45 quarter college-level units in engineering, chemistry or physics, **OR** a National Association of Corrosion Engineers (NACE) CP-1 (CP-Tester) or higher certification; **AND** three years of full-time corrosion engineering experience in cathodic protection. Possession of a valid California Class C Driver License.

- \* **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.