

CLASS SPECIFICATION

SAN DIEGO CITY CIVIL SERVICE COMMISSION

SENIOR CORROSION ENGINEERING AIDE - 1813

DEFINITION:

Under general supervision, to perform subprofessional corrosion engineering investigations, inspections, troubleshooting, and problem solving; and to perform related work.

*** EXAMPLES OF DUTIES:**

- Conducts routine field investigations and survey data analysis to ensure City objectives and design standards are met for City projects and facilities;
- Analyzes corrosion failures and solves problems;
- Performs routine pipe and soil surveys on pipelines and underground structures;
- Troubleshoots and performs minor repairs to cathodic protection systems;
- Selects methods and/or materials for projects; conducts proper material selection for new or replacement materials;
- Liaisons with City departments, contractors, vendors, and other agencies to coordinate projects and share information;
- Review and update corrosion control related City specifications and Green Book Standards;
- Determines use of material coating and paint;
- Design review of new structures, installs and inspects cathodic protection equipment;
- Computes quantities, prepares estimates, and compiles, collects, and compares data for reports;
- Enters and retrieves data using computer terminals and databases;
- Reviews and maintains records of raw field monitoring data;
- Installs and inspects cathodic protection equipment and protective coating;
- Evaluates soil corrosivity factors;
- Assists with the inspecting, installing, and testing of cathodic protection systems;
- Prepares routine reports, drawings, graphs, charts, and field tests.

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>.

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) certificate at any level; **AND** two years of full-time corrosion engineering experience in cathodic protection.

*** 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.