



Corrosion Control Technician II

DEFINITION

Under direction, performs field and laboratory work for general corrosion control; and performs related work as required.

DISTINGUISHING CHARACTERISTICS

This is the journey level position in the Corrosion Control Technician classification series. Incumbents are expected to troubleshoot and independently perform the tasks associated with the corrosion control program.

EXAMPLES OF DUTIES

Typical duties may include but are not limited to the following:

- Installs, inspects the installation of, maintains and adjusts cathodic protection systems to ensure proper level of operation.
- Gathers information and physically locates underground pipes, cables and facilities.
- Inspects protective coatings for water facilities such as tanks, pipes and other distribution reservoirs for maintenance and preventive maintenance.
- Evaluates protective coating conditions, determine corrective measures and make recommendations for appropriate maintenance and preventive maintenance.
- Makes field and laboratory surveys of soil resistivity and physical characteristics for determining environmental corrosivity or interference with other buried structures.
- Determines adequacy of electrical insulators and connections during construction and electrical continuity after construction.
- Prepares and maintains accurate logs, records and drawings of corrosion control and test data;
- advises field inspection personnel.
- Maintains accurate records and prepares reports.
- Follows applicable safety rules and regulations with particular emphasis on confined space entry.
- Monitors contract development and carries out duties to complete projects for corrosion control related programs.
- Participates in the training of other technicians or inspectors.

QUALIFICATIONS FOR EMPLOYMENT

Knowledge of:

- Fundamentals of corrosion control, including electrical measurements, alternating and direct current circuits;
- principles and usage of algebra;
- instruments used in the performance of corrosion control installation and maintenance;
- protective coating systems application and inspection techniques;
- conductivity or resistivity soils testing;

- construction methods and materials used in water piping system;
- word processing, basic spreadsheet and database computer applications; and
- proper use of English grammar, punctuation and spelling.

Ability to:

- Perform standard laboratory tests;
- read and understand construction drawings, maps, plans and specifications;
- perform accurate mathematical calculations;
- safely and efficiently use laboratory, field equipment and materials;
- conduct failure analyses related to corrosion control, and draw conclusions and make recommendation for corrective action;
- Operate a personal computer to enter and access information;
- prepare and maintain accurate records and reports;
- communicate and work effectively with those contacted in the course of work;
- understand and carry out written and oral instructions;
- work safely on below-ground-level projects and in confined spaces;
- work safely at high elevations, on scaffolds, ladders, storage tanks, vehicular and buildings;
- work in a variety of terrains and outdoors in all weather conditions;
- travel to alternative work locations and off-site meetings; and
- drive a vehicle.

Training and Experience: Any combination equivalent to experience and education that could likely provide the required knowledge and abilities would be qualifying. A typical way to obtain the knowledge and abilities would be:

Completion of the twelfth grade or its equivalent, and two years experience performing the duties and meeting the requirements equivalent to that of a Corrosion Control Technician I;

OR

Completion of the twelfth grade or its equivalent and completion of certified and acceptable college-level courses and/or recognized professional training in electronics, chemistry and electrical measurement or other related field, and one year of experience performing the duties equivalent to that of a Corrosion Control Technician I working in the maintenance and operations of water, waste water, oil, gas or similar system.

OTHER REQUIREMENTS

Per California Government Code, Title 1, Division 4, Chapter 8, Section 3100 "all public employees are hereby declared to be disaster service workers subject to such disaster service activities as may be assigned to them by their superiors or by law."

LICENSES AND/OR CERTIFICATIONS

- Possession of an appropriate California driver's license issued by the State Department of Motor Vehicles and satisfactory driving record.
- Possession of a valid CP1 – Cathodic Protection Tester certification issued by the National Association of Corrosion Engineers (NACE) is required.

- Possession of a valid D1 Distribution Operator certification issued by the California State Water Resources Control Board (SWRCB) is required to pass probation.
- Possession of a valid CP2 – Cathodic Protection Technician certification issued by the National Association of Corrosion Engineers (NACE) is required to pass probation.

PHYSICAL DEMANDS AND WORKING CONDITIONS

During the course of performing job duties the employee will perform heavy physical work and will need the mobility to operate equipment, which may include office and/or field equipment, or specialized instruments or tools requiring repetitive arm/hand movement and/or the coordinated movement of more than one limb simultaneously; enter and retrieve data from personal computers and terminals via keyboards. The employee frequently stands, walks, bends at neck and waists, twists at neck and waist, uses simple and power grasping with both hands, uses fine manipulation of both hands and fingers, and may require use of the arms above the shoulder, climb or balance; stoop, kneel or crouch. While working in the field the employee may walk on uneven or un-level ground surfaces such as hills, slopes, ditches or trenches, on or in tanks, and may work at heights up to ten to twelve feet climbing ladders or stairs. The employee is frequently required to lift and carry short distances objects such as materials or equipment weighing up to 10 to 50 pounds and occasionally lift 50 to 75 pounds. This position requires that the employee demonstrate adequate hearing to detect warning alarms and speech to converse in person and over the telephone or radio, and vision to read printed materials and detect color coded materials, and use a computer screen.

The noise level in the work environment is moderate to loud noise. The employee is exposed to moving vehicles and other moving equipment and machinery, excessive noise, extremes in temperature, humidity, wetness and dust. The position may require the ability to work overtime and weekends as needed.

Employees who drive on District business to carry out job-related duties must possess a California driver's license for the class of vehicle driven and meet automobile insurability requirements of the District including review of a recent DMV history. In order to drive, individuals must be physically capable of operating the vehicles and equipment safely.

ADDITIONAL PHYSICAL DEMANDS

- A self contained breathing apparatus must be worn when working in confined spaces and employee must be capable of obtaining and maintaining a proper facial seal for District respiratory equipment.
- Ability to swim 200 feet with the use of a floatation device.

To be successful in this job, an individual must be able to satisfactorily perform each of the listed duties. These duties are representative of the knowledge, skill and/or ability required for the position. Reasonable accommodations may be made to enable individuals with disabilities to perform the duties and functions of the position. Requests for reasonable accommodation should be directed to the Human Resources Manager.

Established: May 1990
Revised: October 2008, November 2021
Approved by: Human Resources Manager