



Corrosion Control Technician I

DEFINITION

Under direct supervision, installs, maintains and inspects all components associated with the District's corrosion control program, and performs related work as required.

DISTINGUISHING CHARACTERISTICS

This is the entry level position in the Corrosion Control Technician series. Incumbents receive specific assignments and operate under supervision until their knowledge, abilities, and job skills become proficient in order to perform independently to complete job duties related to the installation and repair of corrosion control systems.

Positions in the Corrosion Control Technician class series are flexibly staffed; positions at the Corrosion Control Technician II level are normally filled by advancement from the Corrosion Control Technician I level; progression to the Corrosion Control Technician II level is dependent on (i) management affirmation that the position is performing the full range of duties assigned to the classification; (ii) satisfactory work performance; (iii) the incumbent meeting the minimum qualifications for the classification including any licenses and certifications; (iv) the incumbent satisfactorily meeting the internal promotional criteria; and (v) management approval for progression to the Corrosion Control Technician II level.

EXAMPLES OF DUTIES

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

- Assists in and/or conducts the inspection, installation of, maintenance and adjustments of cathodic protection systems to ensure proper level of operation;
- assists in and/or inspects protective coatings for water facilities such as tanks, pipes, and other distribution reservoirs;
- assists in and/or makes field and laboratory surveys of soil resistivity and physical characteristics for determining environmental corrosivity or interference with other buried structures;
- assists in and/or determines adequacy of electrical insulators and connections during construction and electrical continuity after construction;
- assists in evaluating protective coating conditions to determine corrective action and appropriate maintenance;
- prepares and maintains accurate logs, records and drawings of corrosion control and test data;
- maintains records and prepares reports;
- gathers information and physically locates underground pipes, cables and facilities;
- operates a computer to enter and retrieve data and to perform calculations;
- operates and maintains a variety of engineering field and office equipment;
- follows applicable safety rules and regulations with particular emphasis on confined space entry; and
- prepares routine memoranda, correspondence and reports.

QUALIFICATIONS FOR EMPLOYMENT

Knowledge of:

- Principles and uses of algebra;
- construction methods and materials used in water piping systems;
- instruments used in the location of pipes or other underground facilities;
- word processing, spreadsheet, and data base computer applications;
- methods and materials used in water piping systems;
- proper use of English grammar, punctuation and spelling; and
- relevant safety precautions and procedures.

Ability to:

- Understand and execute written and oral instructions;
- read and understand construction drawings, maps, plans and specifications;
- perform accurate mathematical calculations;
- operate a personal computer to enter and access information;
- prepare and maintain accurate reports, records, logs, and charts;
- safely and efficiently use laboratory, field equipment and materials;
- learn to operate and maintain a variety of mechanical and electrical equipment;
- communicate and work effectively with those contacted in the course of work;
- work safely on below-ground-level projects and in confined spaces;
- work safely at high elevations, on scaffolds, ladders, water storage tanks, vehicular traffic and buildings;
- work overtime as required;
- travel to alternative work locations and off-site meetings; and
- drive a vehicle.

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

- Completion of twelfth grade or its equivalent, and completion of course work in electronics, chemistry or other related field or recognized professional training in corrosion control.

Or

- Completion of the twelfth grade or its equivalent; one year of experience in operation and maintenance at a water, wastewater, gas, oil or equivalent industry.

INTERNAL PROMOTIONAL CRITERIA:

- For non-competitive internal promotional criteria, please refer to the Flex Criteria Matrix for the applicable classification series.

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."
- Possession of an appropriate California driver's license issued by the State Department of Motor Vehicles and satisfactory driving record.

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 D1 Distribution Operator certification issued by the California State Water Resources Control Board (SWRCB) is required to pass probation.
- Successful completion of the Cathodic Protection Tester (CP1) certification through the Association for Materials Protection and Performance (AMPP) is required to pass probation.

PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT

During the course of performing job duties the employee will need the mobility to work in a standard office setting, 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 which is often performed while sitting for extended periods of time. 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 fifty feet climbing ladders or stairs. The employee is occasionally required to lift and carry short distances objects such as reams of copier paper, office supplies, files, books, printed materials and other packages or equipment weighting up to 10 to 25 pounds. This position requires that the employee demonstrate adequate hearing and speech to converse in person and over the telephone, and vision to read printed materials and use a computer screen.

The noise level in the work environment is quiet to moderate noise. The employee is exposed to outdoor 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.
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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 accommodation 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: June 2012, November 2021, June 2026
Approved by: Human Resources Manager