



## Job Description

*Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee for this job.*

|                  |                              |
|------------------|------------------------------|
| <b>Job title</b> | Corrosion Control Technician |
|------------------|------------------------------|

### **GENERAL PURPOSE**

Under general supervision, performs technical duties related to the District’s cathodic protection program; inspects and repairs cathodic protection systems; coordinates the work of contractors; gathers water levels for groundwater monitoring purposes; and performs related duties, as assigned.

### **DISTINGUISHING CHARACTERISTICS**

This is the fully qualified journey-level classification in the Corrosion Control Technician series. Positions at this level perform the full range of duties as assigned, working independently, and exercising judgment and initiative. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

### **SUPERVISION RECEIVED AND EXERCISED**

Receives direction from Water Operations Supervisor. Exercises no direct supervision over staff.

### **TYPICAL DUTIES AND RESPONSIBILITIES**

*The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to this position.*

- Performs a variety of skilled duties involved in the inspection, diagnosis, troubleshooting, and maintenance of the water distribution systems as they relate to cathodic protection.
- Initiates the interior recoating of District water storage reservoirs; performs and/or arranges for the interior, exterior, and structural inspection of all District water reservoirs.
- Organizes and monitors the installation of cathodic protection systems on water pipelines and reservoirs within the District.

- Organizes and conducts field testing procedures for all District cathodically protected structures, such as reservoirs and pipelines.
- Collects GPS coordinates of district appurtenances with the use of GNSS equipment.
- Coordinates activities with other sections and divisions or agencies.
- Collects water levels and records for groundwater monitoring.
- Submits requisitions for necessary tools, equipment, and supplies.
- Responds to emergency situations as necessary.
- Observes and complies with all District and mandated safety rules, regulations, and protocols.
- Performs related duties as assigned.

## **REQUIRED QUALIFICATIONS**

### Knowledge of:

- Methods and techniques used in cathodic protection and corrosion control.
- Pipeline operations and characteristics of materials transported.
- Diagnostic tools used in the inspection of water systems and pipelines.
- Mathematics including algebra, geometry, and trigonometry.
- Water hydraulics concepts.
- Basic electrical theory.
- Principles and practices of cost estimating.
- Principles, methods, techniques, tools, and equipment used in the installation, maintenance, and the operation of a large waterworks system.
- Basic principles of groundwater monitoring.
- Federal, state, and local laws, codes, and regulations in assigned areas of responsibility.
- District and mandated safety rules, regulations, and protocols.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and District staff.
- The structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.
- Modern equipment and communication tools used for business functions and program, project, and task coordination, including computers and software programs relevant to work performed.

Ability to:

- Inspect and assess cathodic protection needs.
- Utilize a diverse range of diagnostic equipment and tools.
- Evaluate coating conditions and take necessary actions.
- Read and interpret engineering drawings survey notes and mechanical specifications.
- Independently organize work, set priorities, meet critical deadlines, and follow-up on assignments.
- Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
- Effectively use computer systems, software applications relevant to work performed, and modern business equipment to perform a variety of work tasks.
- Communicate clearly and concisely, both orally and in writing, using appropriate English grammar and syntax.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

Experience:

*Any combination of experience and education that provides the required knowledge and abilities is qualifying, along with the specific licenses/certifications as outlined below:*

- Three (3) years of progressively responsible experience performing cathodic inspection and protection duties, preferably in a water system environment.

Education:

- Equivalent to completion of the twelfth (12<sup>th</sup>) grade.

Licenses/Certifications:

- A valid California driver's license and the ability to maintain insurability under the District's Vehicle Insurance Policy.
- A State of California Water Distribution Operator Certificate, Grade II.
- NACE CP Tester I Certificate must be obtained within 18-24 months of hire into this classification.

### **PHYSICAL DEMANDS**

*The physical demands described here are representative of those that must be met by employees to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Must possess mobility to work in standard water treatment plants and related facilities; strength, stamina, and mobility to perform medium to heavy physical work, to work in confining spaces, around machines and to climb and descend ladders, and to operate varied hand and power tools and equipment; vision to read printed materials, a computer screen, and to operate a motor vehicle and visit various District sites; color vision to read gauges and identify appurtenances; and hearing and speech to communicate in person and over the telephone or radio. The job involves frequent walking in operational areas to identify problems or hazards. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate above-mentioned tools and equipment. Positions in this classification bend, stoop, kneel, reach, and climb to perform work and inspect work sites. Employees must possess the ability to lift, carry, push, and pull materials and objects up to 50 pounds and heavier weights with the use of proper equipment.

### **WORK ENVIRONMENT**

*The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.*

Employees work partially indoors and partially outdoors and are exposed to loud noise levels, cold and hot temperatures, inclement weather conditions, vibration, confining workspace, chemicals, mechanical and/or electrical hazards, and hazardous physical substances, odors, and fumes. Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing departmental policies and procedures.

Employees are subject to weekend and/or rotating shifts and 24-hour call out.

Eastern Municipal Water District  
Job Title: Corrosion Control Technician  
Last Update: March 2020

This job description has been reviewed and approved by all levels of management in cooperation with the union (if applicable):

|                            |                           |
|----------------------------|---------------------------|
| <b>Approved by:</b>        | <i>Board of Directors</i> |
| <b>Date adopted:</b>       | <i>March 29, 2020</i>     |
| <b>Date modified:</b>      |                           |
| <b>FLSA determination:</b> | <i>Non-Exempt</i>         |

**Job Description Acknowledgment**

*I have received, reviewed, and fully understand the job description for Corrosion Control Technician. I further understand that I am responsible for the satisfactory execution of the essential functions described therein, under any and all conditions as described.*

*Employee Name (print):* \_\_\_\_\_ *Date:* \_\_\_\_\_

*Employee Number:* \_\_\_\_\_

*Employee Signature:* \_\_\_\_\_