

CORROSION TECHNICIAN I

SUMMARY/PURPOSE:

To assist in the protection of above and underground metallic distribution systems. Employees at this level assist the Corrosion Technician II personnel while learning the City's distribution system operations and procedures.

ESSENTIAL DUTIES AND RESPONSIBILITIES (other duties may be assigned):

1. Collect, maintain, and analyze data on the condition of the City's distribution system.
2. Install systems to reduce and/or prevent corrosion and damage to the distribution system.
3. Maintain protective devices, systems, and pipeline markers.
4. Prepare and maintain maps and records of pipeline testing, protection, and condition.
5. Recommend the replacement or abandonment of pipe in the distribution system based on maintenance history and condition as determined by field testing and inspections.
6. Evaluate and recommend the purchase of materials and equipment used in distribution system protection.
7. Construct and maintain all records and reports as required.
8. Check and report the condition of all distribution system above grade pipeline crossings, structures, and pipeline markers.
9. Attend training sessions as deemed appropriate by supervisors.
10. Perform duties as assigned.

JOB REQUIREMENTS:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required

1. Education and Experience Requirements:
 - A. Possess two years post-secondary pre-engineering education or equivalent.
 - B. Possess a minimum of one year of full-time equivalent cathodic protection experience; or two years in the maintenance and protection of distribution systems.
2. License Requirements:
 - A. Ability to obtain a Cathodic Protection Tester (CP1) certification by the National Association of Corrosion Engineers (NACE) within one year of appointment.
 - B. Possession of a valid Minnesota Driver's License or equivalent.
3. Knowledge Requirements:
 - A. Knowledge of cathodic protection and testing techniques.
 - B. Knowledge of gas and water distribution systems.
 - C. Knowledge of pipeline design and layout.
 - D. Knowledge of electricity, especially as it pertains to cathodic protection.
 - E. Knowledge of the principles of mechanical design.
 - F. Knowledge of field survey techniques, especially as related to pipeline placement.
 - G. Knowledge of asset management systems.
 - H. Knowledge of algebra, geometry and trigonometry.
 - I. Knowledge of technical engineering principles and practices.
 - J. Knowledge of principles of technical writing.
 - K. Knowledge of principles of drafting.
 - L. Knowledge of anti-corrosive coatings for metallic piping.
4. Skill Requirements:
 - A. Skill in maintaining pipeline distribution systems.

- B. Skill in drafting and mapping.
5. Abilities Requirements:
- A. Ability to operate computer equipment and CAD systems.
 - B. Ability to gather, analyze, and interpret data, and make recommendations on that basis.
 - C. Ability to communicate, both orally and in writing.
 - D. Ability to understand and apply Department of Transportation regulations that pertain to the transportation and storage of gas.
 - E. Ability to understand and implement oral and written instructions.
 - F. Ability to establish and maintain effective working relationships with co-workers, supervisors and the general public.
 - G. Ability to work independently without direct supervision.
6. Physical Abilities Requirements:
- A. Ability to routinely lift and carry equipment weighing up to 25 pounds and occasionally lift and carry equipment up to 50 pounds.
 - B. Ability to work in confined spaces.
 - C. Ability to stand, walk, kneel, crouch and stoop, as needed to perform work activities.
 - D. Ability to attend work on a regular basis.

HR: TS	Union: Basic	EEOC: Technician	CSB: 20130305	Class No: 5409
WC: 7502	Pay: 29	EEOF: Utilities/Transportation	CC: 20130325	Resolution: 13-0131R