

## **WATER DISTRIBUTION SYSTEM MECHANIC**

**DISTINGUISHING FEATURES OF THE CLASS:** This is skilled work involving responsibility for the more difficult, technical and complex tasks related to the installation, maintenance, reconditioning, and repair of water distribution system fixtures such as major mains, valves, pumps, pressure regulators and related water services. Incumbents in this class perform the duties on an independent basis utilizing the standard practices and procedures of the trade, but must be available for emergency repairs to the system as required by the department. Projects are received from and priorities are set by the Water Maintenance Supervisor, or a high level administrator. Employees of this class may review the work of outside contractors as assigned. Supervision is not normally a regular responsibility of this class.

### **TYPICAL WORK ACTIVITIES:** (Illustrative only)

- Performs the more difficult and complex work related to the installation, maintenance, reconditioning and repair of water distribution system fixtures and equipment, such as mains, valves, pumps, drilling machines, pipe cutters, and tapping machines, etc.;
- Installs and repairs larger water valves and water mains, both under or without pressure, using specialized tools and hand tools;
- Tears down and refurbishes older valves and pumps and oversees or makes parts for the valves that cannot be readily obtained from manufacturers;
- Performs preventive maintenance tasks to all the fixtures in the distribution system and maintains records of work performed;
- Monitors the pressure regulators in the system and recommends when they should be replaced or rebuilt;
- Cleans and maintains all assigned equipment;
- Directs or shuts off the appropriate valves to redirect and maintain pressure in the water system when major breaks occur;
- Reads blueprints, technical manuals and schematics to ensure understanding of operation of valves, pumps, regulators, etc. prior to taking them apart for repair;
- Oversees or participates in laying major water lines and attaching valves;
- Relays to appropriate personnel specifications of new fixtures, such as valves and regulators, so that appropriate blueprints and drawings can be prepared;
- Files daily reports pertaining work performed, time spent on job, and material used;
- Responds to emergency calls on major repairs, when necessary;
- Operates pneumatic drills for breaking ground, welding equipment, hydrolic tools and machine shop equipment;
- May review installation work of private contractors for conformity with specifications and reports findings to supervisors;
- Performs related work as required.

**FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES, AND PERSONAL CHARACTERISTICS:**

- Thorough knowledge of the installation, repair and maintenance of water distribution fixtures and equipment;
- Thorough knowledge of the component structures and fixtures of water distribution system;
- Good knowledge of the common practices, tools, terminology and principles of the trade;
- Good knowledge of the hazards and safety precautions involved in the work;
- Skill in the use of hand and power tools, welding equipment, tapping machines, drills, pipe cutters, valve inserting, repair machines and water pumps;
- Ability to read and interpret blueprints, plans and maps as they relate to a water distribution system;
- Ability to make comprehensive evaluations of project assignments;
- Ability to follow oral and written instructions;
- Ability to prepare simple records;
- Willingness to perform difficult physical labor outdoors in all types of weather and under all conditions;
- Willingness to respond to emergencies when they occur;
- Mechanical aptitude;
- Manual dexterity;
- Reliability, initiative and resourcefulness;
- Physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:** Either:

- A. Graduation from high school or possession of a high school equivalency diploma and four (4) years of full-time paid experience in the installation, maintenance and repair of a water distribution system; OR
- B Two (2) years of permanent status as a Water Maintenance Repair Worker; OR
- C Any equivalent combination of training and experience as defined by the limits of (A) and (B) above.

**SPECIAL REQUIREMENT:** Eligibility for appropriate class license issued by the New York State Motor Vehicle Department. Possession of the license is required at the time of appointment and throughout the employment.

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