

WATER AND SEWER MAINTENANCE TECHNICIAN

General Statement of Duties

Performs responsible semi-skilled and skilled work in the installation, replacement, repair and maintenance of water and sewer lines, and maintaining wells, utility plants, and lift stations.

Distinguishing Features of the Class

An employee in this class performs a variety of semi-skilled and skilled work as a member of a crew engaged in the construction, installation and repair of water and sewer lines. Work involves the operation of construction equipment in the installation, replacement, and repair of water and sewer pipes to specific grade and depth, and back-filling, and compacting the site. Work also includes making taps to water and sewer mains; meters, and valves; and making repairs to the water and sewer system. Work also involves maintaining wells, utility plants, and lift stations. Employees are subject to working in both inside and outside environments, in extreme hot and cold weather, and exposure to various hazards such as loud noises, vibration, moving mechanical parts, electrical current, chemicals, fumes, odors, dusts, mists, gases, poor ventilation, and oils. Work is also subject to the final standards of OSHA on bloodborne pathogens. Employees are also subject to on-call work for after-hours emergency repairs. Work is performed under regular supervision and is evaluated through observation and inspection for adherence to instructions and standard trade and safety practices.

Duties and Responsibilities

Essential Duties and Tasks

Makes regular visits to wells, utility plants, and lift stations to check operation and maintain; checks chlorine levels of water wells; makes visual inspection of pumps; smells area, checks boxes and gauges; looks for leaks and unusual noises; takes readings and makes notes on inspection; cleans area and makes minor repairs.

Participates in water and sewer line repairs; operates or assists with tapping machine to make water and sewer taps and service connections.

Lays water and sewer pipe; adjusts pipe to proper grade and depth and replaces sewer and water lines and related facilities.

Operates equipment such as backhoe, front end loader, dump trucks, jackhammers, tampers, pipe threading machines, tapping machines, trenchers, air compressors, and boring machines.

Installs hydrants, meters, valves, clamps, and related pipeline apparatus.

Installs vacuum pits and makes connections to collection main lines.

Unstops sewer lines with pressure machines, vacuum machines, rodding machines or hand tools.

Operates mobile pumps and generators.

Repairs landscaping after construction or maintenance work.

Establishes work zones with cones and signs; flags traffic for safe work zone.

Makes simple records of work activities; prepares drawings and measures to allow for updating of utility maps.

Additional Job Duties

May serve as back up Operator in Responsible Charge (ORC) for water distribution or wastewater collection system.

May read water meters and perform meter repair work.

Performs other related tasks as required.

Knowledge, Skills, and Abilities

Water and Sewer Maintenance Technician

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Knowledge of the tools, materials and equipment used in the installation, replacement, maintenance and repair of utility lines.

Knowledge of a variety of maintenance and manual methods and tasks involved in the installation, maintenance, repair and replacement of utility lines and appurtenances.

Knowledge of the general maintenance and repair of utility plant and lift stations.

Knowledge of the use of common hand and power tools used in the work.

Knowledge of the safe use and operation and preventive maintenance of common automotive and mechanical equipment.

Some knowledge of the municipal water and sewer service policies and procedures.

Skill in the operation of backhoes, loaders, track hoes, excavators, dump trucks, loaders and other construction equipment.

Ability to establish and maintain effective working relationships with supervisors, co-workers and the public.

Ability to read utility line maps and operation and service manuals and to understand and follow oral and written instructions.

Ability to prepare simple records of work activities.

Physical Requirements

Must be able to physically perform the basic life operational functions of climbing, balancing, stooping, kneeling, crouching, crawling, reaching, standing, walking, pushing, pulling, lifting, fingering, grasping, feeling, talking, hearing, and repetitive motions.

Must be able to perform very heavy work exerting up to 100 pounds of force occasionally; 50 pounds of force frequently; and 20 pounds constantly.

Must possess the visual acuity to operate heavy construction equipment in a safe manner to fit pipes and other parts, read gauges, prepare data, perform mechanical and skilled trade work, and make written records.

Desirable Education and Experience

Graduation from high school and experience in related construction or utility maintenance work including heavy equipment operations experience; or an equivalent combination of education and experience.

Special Requirements

Possession of valid North Carolina driver's license.

Possession of appropriate Collection, Distribution, and Well Operator certifications within timeframes specified by the Town.

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