



Utility Service Worker III

Summary

Perform highly skilled duties in the installation, maintenance, and repair of water, stormwater, and sewer systems; operate a variety of heavy equipment in performance of maintenance duties and provide lead direction to an assistant or a small crew.

Class Characteristics

General Supervision is provided by a higher-level supervisor or manager; responsibilities may include the direct and indirect supervision support staff.

The advanced journey level classification of this series, incumbents are capable of independently performing highly skilled work in the installation, maintenance, and repair of water, sewer, and stormwater systems, including operating a variety of heavy equipment. In addition, responsibilities include providing direction to an assistant or to a small crew on a project or relief basis. This class is distinguished from Lead Utility Service Worker in that the latter routinely assigns, directs, and reviews the work of a small crew involved in water, sewer and stormwater system installation, maintenance and repair.

Essential Duties, Skills, and Demands of the Position

The duties, skills, and demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with a disability to perform the essential duties, skills, and demands.

Duties:

Perform highly skilled work in the installation, maintenance, and repair of water, stormwater and sewer systems.

Perform duties and oversees maintenance activities such as: install, tap, re-line, disinfect, test, and connect water mains and appurtenances; shutdown, repair, disinfect, and test broken water mains; flushing, cleaning, and pigging of existing water mains; standby emergency response duties for after hours distribution system operational emergencies.

Provide lead direction and training to an assistant or to a small crew on a project or relief basis; install, maintain, repair, and replace utility systems, including mains and services; measure, cut, join, and tap steel, cast iron, asbestos, cement, copper, and plastic water pipe; install meter boxes, vaults, and residential, industrial, and commercial meters.

Locate, mark, and record the location of hydrants, gate valves, water mains and services, recycled water, sanitary sewer, and stormwater lines.

Ensure proper safety precautions and that the work site is maintained in a safe and orderly condition; install shoring and set up traffic control to maintain a safe work site.

Read drawings and blueprints.

Maintains records and prepare reports on work performed.

Operate heavy equipment to dig and backfill trenches; place and remove pumps, valves, and other appurtenances; perform minor carpentry, welding, and fabrication tasks; lay and roll asphalt, etc.

Locate and repair leaks and line breaks in water, recycled water, stormwater, or sanitary sewer lines; operate camera van to locate broken or cracked sewer lines; dig out, cut, and replace pipe sections, fittings, and couplings on sewer lines; operate power routing and vacuum equipment to clear line blockages; disinfect and flush system after installation or repair.

Assist in installing or repairing production and transmission facilities and equipment.

Replace and repair concrete and asphalt after utility repairs are completed.

Use hand and power tools and equipment related to the trade, including compressors, concrete saws, and pavement breakers.

Perform related duties as assigned.

Skills/Abilities:

Perform highly skilled work in the installation, maintenance, and repair of mains, services, valves, meters, hydrants and other water, recycled water, and stormwater system equipment.

Perform highly skilled work in the installation, maintenance, and repair of sewer lines and related structures.

Operate special equipment to locate leaks in the water distribution or wastewater collection system.

Operate a variety of light and heavy equipment including as backhoes, tractors, rollers and loaders and trucks over 26,000 gross vehicle weight.

Read drawings and blueprints.

Maintain records of work performed.

Ensure the provision of a safe working environment.

Understand and follow oral and written directions.

Work independently or as a member of a crew.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective working relationships with those contacted in the course of the work.

Physical Demands and Work Environment:

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, or feel; reach with hands and arms; and talk or hear. The employee frequently is required to stand, walk, and sit. The employee is occasionally required to climb or balance; stoop, kneel, crouch, crawl; and smell. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus. The employee must be able to perform heavy physical labor, including having sufficient strength to lift and carry tools and materials weighing up to 90 pounds. While performing the duties of this job the employee is occasionally exposed to outside weather conditions, wet and/or humid conditions, moving mechanical parts, fumes or airborne particles, toxic or caustic chemicals, and vibration. The noise level in the work environment may be moderate to loud depending on working conditions. The employee will be required to work emergency overtime or off-shift hours as necessary.

Qualifications

Knowledge of:

Operations and maintenance of utility systems.

Operational characteristics of tools and vehicles used in utility maintenance.

Concepts of water distribution mathematics such as; water measurements, formulas (area and volume), units and conversion factors, and water pressure.

Concepts for utility system maintenance such as; purpose, configuration, and operation, pipe materials, water storage facilities, meters, hydrants, leak detection and repair, corrosion, flushing and cleaning, water meter testing, maintenance and repair, maintenance of pumps and electric motors.

Concepts for distribution system operation such as water quality, sources of supply, and safety and sanitation practices including disinfectants.

Operational characteristics of pumps, motors, and related equipment.

Equipment, tools, materials, and methods used in utility system installation, maintenance, and repair.

Methods and techniques of operating a variety of heavy equipment, including backhoes, loaders, rollers, trucks over 26,000 gross vehicle weight, and tractors.

Principles of leadership and related training

Principles and practices of safety pertaining to field and underground maintenance work.

Mathematic concepts.

Methods and techniques of maintaining records.

Education and Experience

Any combination equivalent to the education and experience likely to provide the required knowledge and abilities would be qualifying. A typical way to gain such knowledge and abilities would be:

Education:

Equivalent to graduation from high school.

Experience:

Three years of experience in installing, maintaining, and repairing underground water or sewer systems or related systems and facilities. Some experience in the operation of heavy equipment, including a backhoe, is desirable.

Certifications/Licenses:

Possession of a Department of Health Services Grade I Water Distribution Certificate issued by the State of California.

Must obtain California Department of Health Services Grade II Water Distribution Certificate prior to advancing to Step 3 of pay range.

Possession of a valid California Class B driver's license.

Desirable:

California Water Environment Association Grade I Certificate.

Other Requirements:

Positions in these classifications are subject to drug and alcohol testing (DOT) pursuant to Federal Law.

Established: 03/90

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