

Title: Water Utilities Pipefitter II
PG: 36
Status: Civil Service
Position Reports to: Water Utilities Pipefitter Foreman
Department: Water Utilities

Class Code: 7083
Date: 09/08

GENERAL DESCRIPTION OF CLASS:

This is journey level work in the installation and repair of water distribution and/or wastewater collection facilities and mechanisms. Work involves performing all phases of water distribution and/or wastewater collection system maintenance and installation. Duties may also involve independent, skilled water meter installation, removal and repair, and other skilled mechanical work involving knowledge of water system and/or wastewater system equipment. On most assignments, the employee has little supervision; however, work is regularly assigned and inspected by a foreman.

ESSENTIAL FUNCTIONS (water):

1. Lays water mains; installs hydrants, valves, fittings, clamps, and sleeves, and responsible for the more difficult repairs; flushes lines; backfills around pipes; landscapes upon completion.
2. May operate all necessary heavy equipment such as boring and jacking equipment, trencher, backhoe and other related equipment.
3. Reads water main blueprints to assist foreman in selecting proper fittings and materials for the project; measures for lengths of pipe necessary.
4. Performs maintenance on materials, tools, and equipment.
5. Yarns, pours and pounds lead; cuts and bevels pipes; threads pipes; caulks joints.
6. Performs helper/acting foreman duties for night time call out.
7. Performs all other associated duties in regards to the installation, maintenance of water lines/attributes and other associated services provide by the City.

ESSENTIAL FUNCTIONS (wastewater):

1. Constructs wastewater gravity mains; manholes; force mains; valve vaults; installs air release, valves, fittings, clamps, and sleeves, and responsible for the more difficult repairs; backfills around pipes; landscapes upon completion.
2. Constructs and upgrades wastewater pumping stations.
3. May operate all necessary heavy equipment such as dewatering equipment, trencher, combination vacuum/jetting truck, backhoe and other related equipment.
4. Reads wastewater blueprints to assist foreman in selecting proper fittings and materials for the project; measures for lengths of pipe necessary.
5. Performs maintenance on materials, tools, and equipment.
6. Pours and finishes concrete for driveways, sidewalks and roadways.
7. Constructs manhole inverts.
8. Cuts and bevels pipes; threads pipes.
9. Participates in divisional after hours stand-by and call out program.
10. Performs all other associated duties in regards to the installation, maintenance of wastewater lines/attributes and other associated services provided by the City.

ADDITIONAL RESPONSIBILITIES (water):

1. Performs emergency repairs on the water distribution system after normal working hours; subject to working overtime and participating in stand-by duty.
2. May perform acting foreman duties during normal and overtime hours of operation.
3. Performs related work as required.

ADDITIONAL RESPONSIBILITIES (wastewater):

1. Performs emergency repairs on the wastewater collection system after normal working hours; subject to working overtime and participating in stand-by duty.
2. May perform acting foreman duties during normal and overtime hours of operation.
3. Performs related work as required.

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KNOWLEDGE, SKILLS & ABILITIES (water):

1. Considerable knowledge of the methods, materials, practices and tools required for pipe, main, service and water meter installation, testing and repair.
2. Knowledge of the water distribution system including mains, hydrants, pressure reducing valves, water meters and other miscellaneous water distribution fixtures.
3. Skill in the use of pipefitting, caulking, plumbing, pneumatic tools, rod welder, acetylene torch and line locator equipment.
4. Ability to read and interpret water distribution maps and construction blue prints.
5. Ability to work independently without direct supervision.
6. Ability to troubleshoot such as testing faulty meters and locating leaks.
7. Ability to understand and follow oral and written instructions.
8. Ability to establish and maintain effective working relationships with co-workers, other City employees and the general public.
9. Ability to perform heavy physical manual tasks for extended periods, often in adverse climatic conditions.
10. Ability to prepare reports and daily paper work.
11. Ability to communicate to Water Distribution employees, internal and external customers via telephone, radio and other means of communications.
12. Ability of being a self starter, self motivated and detailed oriented.
13. Ability to direct the actions of fellow employees.

KNOWLEDGE, SKILLS & ABILITIES (wastewater):

1. Considerable knowledge of the methods, materials, practices and tools required for the extension, repair and maintenance of wastewater mains, services and valves.
2. Knowledge of the city wastewater collection system including gravity mains, services, ARVs, and force mains and other miscellaneous wastewater system components.
3. Skill in the use of pipefitting, plumbing, pneumatic tools and line locator equipment.
4. Ability to read and interpret wastewater collection maps and construction blue prints.
5. Ability to work independently without direct supervision.
6. Ability to troubleshoot cause of pipe failures and system interrupts.
7. Ability to understand and follow oral and written instructions.
8. Ability to establish and maintain effective working relationships with co-workers, other City employees and the general public.
9. Ability to perform heavy physical manual tasks for extended periods, often in adverse climatic conditions.
10. Ability to prepare reports and daily paper work.
11. Ability to communicate to Wastewater Collection employees, internal and external customers via telephone, radio and other means of communications.
12. Ability of being a self starter, self motivated and detailed oriented.
13. Ability to direct the actions of fellow employees.

WORKING ENVIRONMENT/CONDITIONS (All):

Requires manual work that involves walking or standing some of the time, and exerting up to 100 pounds of force on a recurring basis.

Occupation does require repetitive motion such as movement of the wrists, hands, legs and/or fingers.

The job risks exposure to some significant environmental hazards (entering confined spaces, chemical, electrical, mechanical, height, and heat), bright/dim light, inside and outside environmental conditions, noise levels.

The job requires normal visual acuity, and field of vision, hearing, speaking, color perception, sense of smell, depth perception, and texture perception.

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QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE) (water):

1. High school diploma or its equivalent.
2. Two (2) years of experience in the installation, repair and maintenance of water distribution systems.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements.

QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE) (wastewater):

1. High school diploma or its equivalent.
2. Two (2) years of experience in the installation, repair and maintenance of wastewater collection systems.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specific requirements.

SPECIAL REQUIREMENTS (All):

1. Must possess and maintain a valid state of Florida Class A CDL with appropriate endorsements as required by the employing department.
2. Must maintain a valid home telephone number.
3. Required to pass and maintain qualification for:
 - a. Respiratory Protection Physical.
 - b. Pulmonary Function.
 - c. Qualitative and Quantitative Fit Test(s).
4. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director