

CITY OF ST. LOUIS CLASSIFICATION SPECIFICATION

CLASSIFICATION

TITLE: Pipefitter

CLASS CODE: 3254

GENERAL DESCRIPTION OF DUTIES:

Incumbents install and repair pipes that carry water, steam, air, chemicals, or gases. May install heating and cooling equipment and mechanical control systems.

DISTINGUISHING CHARACTERISTICS:

This is a journey-level trade classification in the Trades Series – Plumbing Group job family within the City of St. Louis. Incumbents perform a variety of moderately complex to complex duties. The distinguishing characteristics of this classification within the series include responsibility for performing installation and repair of pipes.

Incumbents work under general supervision. While workers require some supervision in most assignments, they are free to develop their own work sequences within established procedures, methods and policies. They are generally subject to periodic supervisory checks.

Incumbents may perform individual contributor class functions, meaning the incumbent is responsible for his/her own work including output, quality and timeliness. Incumbents may, however, explain work processes and train others, such as new employees, in the same or similar job title. The individual contributor may serve as a resource or guide by advising others on how to use processes within a system or as a member of a collaborative problem-solving team.

EXAMPLES OF WORK (Illustrative Only):

(The list of duties is intended to be representative of the duties performed in positions within this classification. It does not include all the duties that may be assigned to a position and is not necessarily descriptive of any one position in this class.)

Plans pipe system layout, installs or repairs according to specifications.

Inspects, examines, or tests installed systems or pipe lines, using pressure gauge, hydrostatic testing, observation, or other methods.

Measures and marks pipes for cutting or threading.

Assembles or secures pipes, fittings, or related equipment, according to specifications, by brazing, soldering, or threading joints.

Attaches pipes to walls, structures, or fixtures, such as radiators or tanks, using brackets, clamps, tools, or welding equipment.

Turns valves to shut off steam, water, gases or other liquids from pipe sections, using valve keys or wrenches.

Cuts or threads pipes to specifications using tools such as saws, cutting torches, pipe threaders, flaring tool, or pipe benders.

Installs valves, threaded, flanged, and mechanical couplings used to control flow of pipe systems. Removes and replaces worn components.

May maintain pumps, motors, and related systems.

May pour and finish concrete.

May maintain equipment and systems for heating, ventilating, air conditioning and plumbing; performs preventive maintenance to equipment. May check the operation, lubricates moving parts, changes belts and filters.

May install equipment such as boilers, air handlers, exhaust fans, plumbing fixtures, motors, pumps, filter tanks, radiators, chillers, compressors, valves, piping, fittings, and sewer systems.

Performs other duties as assigned.

KNOWLEDGE, SKILLS AND ABILITIES:

Data Utilization:

Requires the ability to perform basic level of data analysis including the ability to review, classify, categorize, prioritize and/or reference data, statutes and/or guidelines and/or group, rank, investigate and diagnose. Requires discretion in determining and referencing such to established standards to recognize interactive effects and relationships.

Human Interaction:

Requires the ability to provide guidance, assistance and/or interpretation to others, such as co-workers, on how to apply policies, procedures and standards to specific situations.

Equipment, Machinery, Tools and Materials Use:

Requires the ability to operate, calibrate, tune and synchronize, and perform complex rapid adjustment on equipment, machinery and tools such as tractor, trucks, overhead crane, shop bench tools, hand power tools, carpenter's tools, plumber's tools, welder, cutting torch, soldering iron, saws, pressure gauge, pipe threader, pipe cutters, pipe-bender, masonry tools, tape measure and/or related materials used in performing essential functions.

Verbal Aptitude:

Requires the ability to utilize a wide variety of reference and descriptive data and information such as regulations, blueprints, diagrams, schematics, work orders, schedules, materials slips, correspondence and general operating manuals.

Mathematical Aptitude:

Requires the ability to perform addition, subtraction, multiplication and division; calculate surface area, volume, percentages, fractions and decimals; perform mathematical operations involving basic algebra and geometry.

Functional Reasoning:

Requires the ability to apply principles of rational systems. Ability to interpret instructions furnished in written, oral, diagrammatic or schedule form. Ability to exercise independent judgment to adopt or modify methods and standards to meet variations in assigned objective.

Situational Reasoning:

Requires the ability to exercise the judgment, decisiveness and creativity required in situations involving the evaluation of information against measurable or verifiable criteria.

Environmental Factors:

Tasks may risk exposure to adverse environmental conditions, such as wetness, humidity, rain, fumes, temperature and noise extremes, machinery, vibrations, electric currents, toxic/poisonous agents.

Physical Requirements:

Tasks involve the ability to exert regular and sustained heavy physical effort including the ability to climb, balance, stoop, kneel, crouch, crawl, and regularly lift, carry, push and pull moderately heavy objects and materials, twenty (20) to fifty (50) pounds, and occasionally involve objects and materials up to one hundred (100) pounds.

Sensory Requirements:

Requires the ability to recognize and identify similarities or differences between characteristics of colors and shapes to clearly distinguish objects, sounds to detect malfunctioning equipment, odors to detect overheating equipment and textures to distinguish finishes.

EDUCATION AND EXPERIENCE STATEMENT:

Completion of a Pipefitter's apprenticeship program or a comparable training program; or five (5) years experience in installing and repairing pipes and piping systems; or an equivalent combination of education, training and experience.

SPECIAL REQUIREMENTS:

Possess and maintain a valid Missouri driver's license while employed by the City of St. Louis.

The City of St. Louis is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City of St. Louis will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the City.