

CITY OF ST. LOUIS CLASSIFICATION SPECIFICATION

CLASSIFICATION

TITLE: Water Plant Maintenance Mechanic

CLASS CODE: 3541

GENERAL DESCRIPTION OF DUTIES:

Incumbents repair and maintain water processing and distribution equipment.

DISTINGUISHING CHARACTERISTICS:

This is a journey-level trade classification in the Water System Maintenance Series – Water Plant Maintenance 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 skilled repair and maintenance duties to water plant equipment.

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.

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.)

Inspects, repairs and maintains water plant and distribution equipment and components such as pumps, motors, valves, intake screens, sluice gates, compressors, feed lines and others.

Repairs and maintains overhead cranes and boats.

Designs, fabricates and installs piping and structural steel.

Maintains regulators.

May occasionally use overhead cranes, rigging equipment, lifting equipment, and motor boats.

Utilizes Water Department equipment as needed.

Performs other duties as assigned.

KNOWLEDGE, SKILLS AND ABILITIES:

Data Utilization:

Requires the ability to process, calculate, compute, summate, and/or tabulate data and/or information. Includes the ability to perform subsequent action in relation to these computational operations.

Human Interaction:

Requires the ability to explain, demonstrate and clarify to others within well-established policies, procedures and standards. Ability to follow specific instructions and respond to simple requests from others.

Equipment, Machinery, Tools and Materials Use:

Requires the ability to operate equipment and machinery requiring monitoring multiple conditions and making multiple, complex and rapid adjustments, such as hand and power tools, drills, saws, grinders, pullers, threading/tapping equipment, wrenches, welders, cutting torches and motor vehicles. Ability to repair complex equipment and machinery.

Verbal Aptitude:

Requires the ability to utilize a wide variety of reference and descriptive data and information such as regulations, blueprints, equipment manuals, time sheets, tool catalogs, shop manuals and general operating manuals.

Mathematical Aptitude:

Requires the ability to perform addition, subtraction, multiplication and division; calculate percentages, fractions and decimals; perform mathematical operations involving basic 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 dirt, dust, wetness, humidity, rain, fumes, temperature and noise extremes, machinery, vibrations, electric currents.

Physical Requirements:

Tasks involve the regular and sustained performance of moderately physically demanding work, typically involving some combination of climbing and balancing, stooping, kneeling, crouching, crawling, and lifting, carrying, pushing, and pulling moderately heavy objects and materials, twenty (20) to fifty (50) pounds.

Sensory Requirements:

Requires the ability to recognize and identify similarities or differences between characteristics of colors and shapes to follow color coded diagrams and clearly distinguish objects, sounds to detect malfunctioning equipment and tools.

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.