

CITY OF ST. LOUIS CLASSIFICATION SPECIFICATION

CLASSIFICATION

TITLE: Stationary Engineer

CLASS CODE: 3423

GENERAL DESCRIPTION OF DUTIES:

Incumbents in this classification operate, maintain and repair stationary engines and mechanical equipment in order to provide utilities or power for buildings and industrial processes.

DISTINGUISHING CHARACTERISTICS:

This is a journey-level technical classification in the Maintenance Series – Stationary Engineer Group job family within the City of St. Louis. Incumbents within this classification perform moderately complex duties with a variety of related tasks. The distinguishing characteristics of this classification within the series include operating and maintaining engines and stationary 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.

This is an individual contributor class, meaning the incumbent may be 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.)

Operates and maintains stationary engines and mechanical equipment such as: high pressure boilers, chillers, diesel generators, air compressors, pumps, air handling units, and related devices.

Visually inspects equipment to detect malfunctions or repair needs such as cleaning, tightening or replacing parts.

Repairs HVAC equipment.

May operate and/or monitor computerized systems such as SCADA and related systems.

Monitors temperature and equipment status in order to keep equipment in good working order; adjusts controls to keep equipment in prescribed operating ranges.

Adds chemicals to maintain appropriate chemical/water ratios for boilers and cooling towers.

Performs equipment testing; tests water samples.

Records operations and maintenance actions taken during shift.

Performs other duties as assigned.

KNOWLEDGE, SKILLS AND ABILITIES:

Data Utilization:

Requires the ability to perform mid-level data analysis including the ability to audit, deduce, assess, conclude and appraise. Requires discretion in determining and referencing such to established criteria to define consequences and develop alternatives.

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 a personal computer, HVAC systems, piping and air compressors. Ability to repair complex equipment and machinery.

Verbal Aptitude:

Requires the ability to utilize a variety of reference, descriptive and advisory data and information such as log book, boiler charts, blueprints, equipment diagrams and non-routine correspondence.

Mathematical Aptitude:

Requires the ability to perform addition, subtraction, multiplication and division; requires the ability to 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 sensory, judgmental and/or subjective criteria, as opposed to criteria that are clearly measurable or verifiable.

Environmental Factors:

Tasks may risk exposure to adverse environmental conditions, such as dirt, dust, odors, wetness, humidity, fumes, noise extremes, machinery, vibrations, electric currents, toxic/poisonous agents, or pathogenic substances.

Physical Requirements:

Requires the ability to lift, carry, push, and pull moderately heavy objects and materials, twenty (20) to fifty (50) pounds, such as working on heavy machinery.

Tasks involve the regular and, at times, sustained performance of moderately physically demanding work, typically involving some combination of climbing and balancing, stooping, kneeling, crouching and crawling in order to perform maintenance duties.

Sensory Requirements:

Requires the ability to recognize and identify degrees of similarities or differences between characteristics of colors, sounds, odors and textures associated with job-related objects, materials and tasks, such as assessing problems in machinery.

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.