



Code: 7775

Family: Operational Engineering
Service: Operation and Construction
Group: Steam and Operation Engineering
Series: Stationary Plant Operation

CLASS TITLE: STATIONARY FIREMAN

CHARACTERISTICS OF THE CLASS

Under supervision, fires and maintains high and low pressure boilers found in heating and ventilation systems, water treatment systems, and pumping stations, and performs related duties as required

ESSENTIAL DUTIES

- Starts and stops boilers as directed by a licensed Operating Engineer
- Monitors the operation of boilers to ensure that efficient fuel consumption rates are maintained
- Manually records daily boiler room readings and conditions in operating logs
- Checks monitoring instruments to identify problems with boilers and related equipment
- Takes water samples to test the pH of the water entering boilers and adds chemicals as needed to maintain the correct range of pH
- Checks levels and adds salt as required to water softener units
- Inspects water levels in boilers and regulates as necessary
- Cleans flues and boiler tubes to prevent the build-up of residue
- Performs preventive maintenance work including oiling and lubricating pumps and auxiliary equipment
- Maintains general cleanliness and neatness of the boiler room
- Assists in the operation of boilers and related equipment, as required

NOTE: *The list of essential duties is not intended to be inclusive; there may be other duties that are essential to particular positions within the class.*

MINIMUM QUALIFICATIONS

Education, Training, and Experience

- One year of experience working with boilers and related equipment including feed water pumps and chemical tanks; or an equivalent combination of education, training, and experience

Licensure, Certification, or Other Qualifications

- None

WORKING CONDITIONS

- Exposure to loud noise
- Exposure to extreme temperatures
- Exposure to fumes or dust
- Exposure to oily or wet environment

EQUIPMENT

- Standard office equipment (e.g., telephone, printer, photocopier, fax machine, calculator)
- Tools used in the maintenance of boilers

- Personal protective equipment (e.g., hard hat, shoes, glasses, gloves, vest, pads)

PHYSICAL REQUIREMENTS

- Substantial lifting (up to 80 pounds) is required
- Ability to stand and walk for extended or continuous periods of time
- Ability to quickly bend, stretch, twist, or reach out with one's body, arms, and/or legs
- Ability to move one's hands and arms to grasp or manipulate objects
- Ability to climb staircases, ladders, and/or step stools
- Ability to operate applicable hand tools, power tools, and equipment

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS

Knowledge

Some knowledge of:

- safety principles, methods, practices, and procedures
- routine testing and inspection activities related to boiler operations
- *use of steam, electric heating, and cooling equipment
- tools, instruments, and techniques used in repairing heating and cooling equipment
- operation of switches, circuit breakers, motors, and pumps

Knowledge of applicable City and department policies, procedures, rules, and regulations

Skills

- *ACTIVE LEARNING - Understand the implications of new information for both current and future problem-solving and decision-making
- *ACTIVE LISTENING - Give full attention to what other people are saying, take time to understand the points being made, ask questions as appropriate, and not interrupt at inappropriate times
- EQUIPMENT MAINTENANCE - Perform routine maintenance on equipment and determine when and what kind of maintenance is needed
- *OPERATION MONITORING - Watch gauges, dials, or other indicators to make sure a machine is working properly
- TROUBLESHOOTING - Determine causes of operating errors and decide what to do about it

Abilities

- COMPREHEND ORAL INFORMATION - Listen to and understand information and ideas presented through spoken words and sentences
- SPEAK - Communicate information and ideas in speaking so others will understand
- COMPREHEND WRITTEN INFORMATION - Read and understand information and ideas presented in writing
- WRITE - Communicate information and ideas in writing so others will understand
- RECOGNIZE PROBLEMS - Tell when something is wrong or is likely to go wrong

Other Work Requirements

- INITIATIVE - Demonstrate willingness to take on job challenges
 - DEPENDABILITY - Demonstrate reliability, responsibility, and dependability and fulfill obligations
 - ATTENTION TO DETAIL - Pay careful attention to detail and thoroughness in completing work tasks
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All employees of the City of Chicago must demonstrate commitment to and compliance with applicable state and federal laws, and City ordinances and rules; the City's Ethics standards; and other City policies and procedures.

The City of Chicago will consider equivalent foreign degrees, accreditations, and credentials in evaluating qualifications.

* May be required at entry.

City of Chicago
Department of Human Resources

Date: August, 2010

Physical Requirements Modified: March, 2014