



Code: 2105
Family: Construction, Maintenance, and Skilled Labor
Service: Health and Welfare
Group: Inspectional
Series: Building Inspection

CLASS TITLE: BOILER INSPECTOR

CHARACTERISTICS OF THE CLASS

Under supervision, inspects and tests boiler systems to ensure boilers and water and steam pipe connections are in compliance with applicable provisions of the municipal building code and industry standards, and performs related duties as required

ESSENTIAL DUTIES

- Conducts inspections of high and low pressure boilers and unfired pressure vessels to ensure that the installation and repair of boiler systems adhere to approved permit plans and specifications
- Checks water and steam connection pipes for leaks and defective parts and recommends repairs in compliance with building code requirements and industry standards
- Performs standard tests (e.g., hammer, accumulation, hydrostatic) and inspects safety valve operation, regulators and brace, and rivet tension to assess condition and operation of boiler equipment
- Uses testing devices including carbon monoxide detectors to measure and check the air flow of boiler systems and assess whether the system sufficiently heats the desired space
- Prepares inspection reports documenting findings
- Interprets and explains provisions of the building code pertaining to the operation, installation, and repair of boiler systems to contractors, residents, and building owners
- Issues citations for code violations found during inspections
- Conducts follow-up inspections to ensure that repairs have been made and that code violations have been corrected
- Testifies at administrative hearings regarding violations identified during inspections and corresponding citations issued
- Prepares work reports on inspection activities
- Inspects job sites for proper boiler system permits

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

- Successful completion of a US Department of Labor registered boiler maker apprenticeship training program and journeyman status; or an equivalent combination of education, training, and experience

Licensure, Certification, or Other Qualifications

- A valid State of Illinois driver's license is required
- Must have the permanent use of an automobile that is properly insured, including a clause specifically insuring the City of Chicago from accident liability

WORKING CONDITIONS

- General office environment
- Exposure to loud noise, fumes or dust, oily or wet environment
- Exposure to extreme temperatures
- Exposure to hazardous conditions (e.g., high pressure, steam)
- Work performed in cramped or confined locations
- Work performed above or below ground level
- Work performed using scaffolds and ladders

EQUIPMENT

- Standard office equipment (e.g., telephone, printer, photocopier, fax machine, calculator)
- Computers and peripheral equipment (e.g., personal computer, computer terminals, hand-held computer, modems)
- Communication equipment (e.g., two-way radio, dispatch communications equipment, multi-channel communication system)
- Personal protective equipment (e.g., hard hat, shoes, glasses, gloves)
- Flashlight
- Carbon monoxide detectors and testing equipment

PHYSICAL REQUIREMENTS

- Ability to walk and stand for extended or continuous periods of time
- Ability to move one's hands and arms to grasp or manipulate objects
- Ability to climb staircases, ladders, and/or step stools
- Ability to access difficult to enter spaces (e.g., roofs, basements, tanks, field equipment, cramped quarters, etc.)
- Ability to tolerate heights while working

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS

Knowledge

Moderate knowledge of:

- *principles, theory, methods, and procedures applicable to the boiler maker trade
- *safety and code standards specific to boiler inspection (e.g., Municipal Building Code, American Society of Mechanical Engineers Boiler and Pressure Vessel Code, OSHA standards)
- use of safety equipment and protective gear

Some knowledge of:

- *repair, maintenance, and preventative maintenance procedures applicable to the boiler maker trade
- boiler mechanical and electronic systems
- geographical locations within the City and applicable facilities
- *hand and power tools and test instruments required for boiler inspections

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

Skills

- *ACTIVE LEARNING - Understand the implications of new information for both current and future problem-solving and decision-making
- MONITORING - Monitor and assess performance of one's self, other individuals, or organizations to make improvements or take corrective action
- *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
- MAKE SENSE OF INFORMATION - Quickly make sense of, combine, and organize information into meaningful patterns

Other Work Requirements

- INITIATIVE - Demonstrate willingness to take on job challenges
- COOPERATION - Be pleasant with others on the job and display a good-natured, cooperative attitude
- DEPENDABILITY - Demonstrate reliability, responsibility, and dependability and fulfill obligations
- ATTENTION TO DETAIL - Pay careful attention to detail and thoroughness in completing work tasks

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
(Valtera Corporation)

Date: June, 2010