CLASS TITLE: PLUMBER

CHARACTERISTICS OF THE CLASS

Under supervision, performs journey-level plumbing work in the installation, repair and maintenance of plumbing systems including municipal water distribution and sewer systems, and performs related duties as required.

ESSENTIAL DUTIES

• Reads blueprints, specifications, and work orders to assess work required and to determine installation and repair methods to use
• Removes and replaces damaged, defective, or obsolete piping and plumbing fixtures
• Ensures adequate supplies of tools, equipment, and materials needed to complete jobs at work sites
• Uses tools (e.g., saws, pipe cutters) to measure, cut, bend, and thread lengths of pipe needed for installation and repair work
• Repairs and replaces valves, water meters, buffalo boxes, hydrants, and related equipment found in water distribution and sewer systems
• Repairs broken water main and sewer pipes by locating leaks, replacing damaged pipe, and re-connecting length of pipe with appropriate fittings
• Installs new water and drainage lines in municipal buildings and connects to outside water/sewer lines, ensuring pipes are properly sized, anchored, and supported
• Maintains plumbing systems, opening and cleaning clogged drain pipes and traps, installing and replacing plumbing fixtures, and repairing broken pipes, valves, and water leaks
• Operates specialized equipment and tools including pipe threaders, rodders, pipe cutting machines, and cutting torches
• Prepares work activity reports
• Loads, transports, and unloads equipment and supplies as required
• Cleans equipment and work site after repairs 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

• A combination of education, training and experience suitable to obtain a plumber's license as issued by either the State of Illinois or the City of Chicago.

Licensure, Certification, or Other Qualifications

• A valid plumber's license issued by either the State of Illinois or the City of Chicago is required.

WORKING CONDITIONS

• Exposure to outdoor weather conditions
• Exposure to loud noise, fumes or dust, oily or wet environment
• Exposure to hazardous conditions (e.g., construction sites)
• Work performed in cramped or confined locations
• Work performed above or below ground level

EQUIPMENT
• Personal protective equipment (e.g., hard hat, shoes, glasses, gloves)
• Safety devices or equipment (e.g., cones, barricades, metal plates, scaffolding, ropes)
• Measuring tools (e.g., tape measure, ruler, calipers, measuring wheel)
• Standard tools and equipment of the plumbing trade (e.g., hammer, screwdriver, saw, pipe cutter, threader, welding equipment, rodding equipment, torches)
• Two-way radio

PHYSICAL REQUIREMENTS
• Heavy lifting (up to 75 pounds) is required
• Ability to walk and stand for extended periods of time
• Ability to quickly bend, stretch, twist, or reach out with one’s body, arms, and/or legs
• 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)
• Ability to operate applicable hand tools, power tools, and equipment

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS

Knowledge
Moderate knowledge of:
• *plumbing principles, theory, methods, and procedures
• *plumbing repair and maintenance procedures
• *plumbing equipment and properties and characteristics of plumbing materials
• *applicable hand and power tools
• *plumbing safety and code standards, including OSHA standards
• *applicable safety principals, methods, practices, and procedures
• *use of safety equipment and protective gear
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
• *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
• *CRITICAL THINKING - Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems
• EQUIPMENT SELECTION - Determine the kind of tools and equipment needed to do a job

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
• RECOGNIZE PROBLEMS - Tell when something is wrong or is likely to go wrong
• REASON TO SOLVE PROBLEMS - Apply general rules to specific problems to produce answers that make sense

Other Work Requirements
• PERSISTENCE - Persist in the face of obstacles on the job
• INITIATIVE - Demonstrate willingness to take on job challenges
• STAMINA - Demonstrate energy and stamina to accomplish work tasks
• 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.