



**Code: 4754**

Family: Construction, Maintenance, and Skilled Labor  
Service: Operation and Construction  
Group: Building Maintenance and Operation  
Series: Steamfitter and Plumbing Trades

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## **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

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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.

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City of Chicago  
Department of Human Resources

Date: August, 2010