



Code: 4805

Family: Construction, Maintenance, and Skilled Labor

Service: Operation and Construction

Group: Building Maintenance and Operation

Series: Structural Trades

CLASS TITLE: ARCHITECTURAL IRON WORKER

CHARACTERISTICS OF THE CLASS

Under supervision, performs journey-level architectural ironwork in the installation, repair, and maintenance of ornamental ironwork in municipal buildings, and performs related duties as required

ESSENTIAL DUTIES

- Reads blueprints, specifications, and work orders to assess work required and to plan layout of ornamental iron works
- Ensures adequate supplies of tools, equipment and materials are at work sites to complete jobs
- Cuts and dismantles metal units with hacksaws, burning torches or plasma cutters to remove damaged ironwork
- Fabricates and installs iron works that are not part of a structural framework such as guard and hand rails, window and curtain walls, stairs and fire escapes
- Measures and lays out installation lines and uses an electric hammer to attach metal work to surfaces
- Cuts and welds metal work to ensure proper fit of parts using hacksaws, welding torches and related tools
- Bolts, screws or rivets metal work to wood, metal and cement surfaces using an electric hammer, rivet gun and related tools
- Maintains tools and equipment to ensure their proper operation
- Inspects installed ironwork to ensure proper and safe attachment to surfaces
- 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

- Successful completion of a US Department of Labor registered architectural ironwork 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

WORKING CONDITIONS

- General office environment
- Exposure to outdoor weather conditions
- Exposure to loud noise, fumes or dust

- Exposure to hazardous conditions (e.g., construction sites, heavy machinery)

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)
- Personal protective equipment (e.g., hard hat, shoes, glasses, gloves, vest, pads)
- Safety devices or equipment (e.g., cones, barricades, metal plates, scaffolding, ropes)
- Standard tools and equipment used in architectural ironwork (e.g., rivet guns, burning and welding torches, drills)
- Measuring tools (e.g., tape measure, ruler, calipers, measuring wheel)
- Ladders
- Two-way radio

PHYSICAL REQUIREMENTS

- Heavy lifting (up to 75 pounds) is required
- Ability to walk and stand 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 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**

Moderate knowledge of:

- *equipment, tools, and materials specific to the architectural iron worker trade
- *repair and maintenance procedures applicable to architectural iron worker trade
- *applicable safety and code standards specific to the architectural iron worker trade, including OSHA standards
- *use of safety equipment and protective gear

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

Other knowledge as required for successful performance in the Architectural Iron Worker class

Skills

- *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
- MONITORING - Monitor and assess performance of one's self, other individuals, or organizations to make improvements or take corrective action

- *COORDINATION WITH OTHERS - Adjust actions in relation to others' actions
- INSTRUCTING - Teach others how to do something
- EQUIPMENT SELECTION - Determine the kind of tools and equipment needed to do a job

Other skills as required for successful performance in the Architectural Iron Worker class

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
- REASON TO SOLVE PROBLEMS - Apply general rules to specific problems to produce answers that make sense

Other abilities as required for successful performance in the Architectural Iron Worker class

Other Work Requirements

- INITIATIVE - Demonstrate willingness to take on job challenges
- STAMINA - Demonstrate energy and stamina to accomplish work tasks
- LEADERSHIP - Demonstrate willingness to lead, take charge, and offer opinions and direction
- COOPERATION - Be pleasant with others on the job and display a good-natured, cooperative attitude
- ADAPTABILITY/FLEXIBILITY - Be open to change (positive or negative) and to considerable variety in the workplace
- DEPENDABILITY - Demonstrate reliability, responsibility, and dependability and fulfill obligations
- ATTENTION TO DETAIL - Pay careful attention to detail and thoroughness in completing work tasks

Other characteristics as required for successful performance in the Architectural Iron Worker class

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: June, 2010