



**Code: 4836**

Family: Construction, Maintenance, and Skilled Labor

Service: Operation and Construction

Group: Building Maintenance and Operation

Series: Structural Trades

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## **CLASS TITLE: FOREMAN OF BRIDGE AND STRUCTURAL IRON WORKERS**

### **CHARACTERISTICS OF THE CLASS**

Under general supervision, supervises journey-level Bridge and Structural Iron Workers engaged in the installation, repair, and maintenance of structural elements and framework on City bridges, viaducts, buildings, and other steel structures, and performs related duties as required

### **ESSENTIAL DUTIES**

- Studies blueprints, specifications, and work orders and inspects work sites to assess installation, repair work, and maintenance required, determine equipment and materials needed, and plan work processes
- Prepares cost estimates of labor, materials, equipment, and manpower needed to complete installation and repair jobs
- Plans, assigns, and schedules structural ironwork jobs based on established priorities and the availability of resources
- Orders materials, equipment, and supplies and coordinates their delivery to work sites
- Supervises work in progress to ensure efficiency, timeliness, and adherence to safety procedures
- Inspects completed jobs for compliance with specifications and established quality standards
- Assists in performing complex structural ironwork jobs
- Trains staff in work and safety procedures and evaluates their performance
- Works with other trades at job sites to ensure efficiency of operations
- Approves employee time records
- Maintains work records and prepares project status reports
- Tests new structural ironwork equipment and makes recommendations for possible acquisition 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 structural ironwork apprenticeship training program and journeyman status, plus two years of journey-level structural ironwork work experience; 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**

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

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- Exposure to hazardous conditions (e.g., construction sites, heavy machinery)
- 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)
- Personal protective equipment (e.g., hard hat, shoes, glasses, gloves, vest, pads)
- 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 used in structural ironwork (e.g., drills, pneumatic riveters, welding equipment)
- Jacks and hoists
- Ladders
- Two-way radio

**PHYSICAL REQUIREMENTS**

- Substantial lifting (up to 50 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 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
- Ability to tolerate heights while working

**KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS****Knowledge**

Considerable knowledge of:

- \*applicable hand and power tools, equipment, and materials specific to the structural ironwork trade
- \*use of safety equipment and protective gear
- \*applicable safety and code standards specific to the structural ironwork trade, including OSHA standards

Moderate knowledge of:

- \*bridge and structural iron repair, maintenance, and preventative maintenance methods, practices, and procedures
- applicable emergency operations

Some knowledge of:

- supervisory methods, practices, and procedures

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

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Other knowledge as required for successful performance in the Bridge and Structural Iron Worker class

**Skills**

- \*ACTIVE LISTENING - Give full attention to what other people are saying, taking 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 Bridge and Structural 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
- CONCENTRATE - Concentrate on a task over a period of time without being distracted
- REASON TO SOLVE PROBLEMS - Apply general rules to specific problems to produce answers that make sense
- RECOGNIZE SPACIAL ORIENTATION - Know one's location in relation to the environment or to know where other objects are in relation to one's self

Other abilities as required for successful performance in the Bridge and Structural Iron Worker class

**Other Work Requirements**

- INITIATIVE - Demonstrate willingness to take on job challenges
- STAMINA - Demonstrate energy and stamina to accomplish work tasks
- 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

Other characteristics as required for successful performance in the Bridge and Structural Iron Worker class

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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  
(Valtera Corporation)

Date: June, 2010