

THE CITY OF LOS ANGELES



CIVIL SERVICE COMMISSION

CLASS SPECIFICATION**09-11-02****STRUCTURAL STEEL FABRICATOR, 3793
STRUCTURAL STEEL FABRICATOR SUPERVISOR, 3794**

SUMMARY OF DUTIES: Working from structural blueprints or sketches does skilled work in the fabrication, repair, alteration, and assembly of structural steel members and shapes; or supervises such work; and does related work.

DISTINGUISHING FEATURES: Structural Steel Fabricators work in the shop and field. Assignments are usually oral and accompanied by structural blueprints and sketches. However, the layout, fabrication, and assembly are the responsibility of the Structural Steel Fabricator. Considerable care must be exercised in the operation of heavy machinery and in handling heavy steel members to prevent accidents. The class of Structural Steel Fabricator is distinguished from the class of Ironworker by the fact that the former is normally responsible for the shop fabrication and preparation of steel members for field installation and by the fact that they must thus work to much closer tolerances. Incumbents in the class may install steel members by means of bolting or welding in the shop or field, and may assemble reinforcing steel components.

A Structural Steel Fabricator Supervisor is the first level supervisor of a structural steel shop. The primary responsibility of this class is for estimating the cost of shop work and for progressing work through the shop. Assignments are received in the form of blueprints, sketches, and verbal instructions. Structural Steel Fabricator Supervisors are responsible for keeping job costs as low as possible by employing proper methods and equipment without sacrificing quality for enforcing adequate safety precautions.

EXAMPLES OF DUTIES: A Structural Steel Fabricator:

- Fabricates, alters, repairs, and assembles structural steel members and shapes;
- Scribes and marks for subsequent fabrication the various members, shapes, and parts;
- Burns, welds, chips, grinds, shears, bends, drills, punches, and straightens plates, beams, channels, angles, tubes and bars;
- Fabricates, fits, and assembles steel trusses, columns, unloading devices, partition and door frames, stairways, fire escapes, railings, instrument panels, tower legs, and special pole and highline hardware, parts, and devices;
- Fabricates, assembles, and finishes truck frames, protective guards, steel booms, and special dollies;
- Repairs structural members of automotive equipment such as tow hooks and cables, pole derricks, and trailer tongues;
- Assists in maintenance, overhaul, and repair of generating plant equipment;
- Assists in dismantling, repairing, and reassembling large units;

- Performs necessary rigging, chipping, and grinding
- May act as lead supervisor over one or more journey level workers, helpers and apprentices;
- Removes and installs metal doors, frames, gates, fences, guards, and fans, blowers, and other rigging operations under direction of the supervisor on the job;
- Splices wire rope, cables, and slings;
- Anchors metal to wood, concrete, machinery, masonry, and plaster;
- May use power grinders, hand tools, and pneumatic tools to repair equipment and structural members;

A Structural Steel Fabricator Supervisor:

- Supervises a crew of Structural Steel Fabricators, allied craft workers, and helpers and apprentices engaged in the fabrication, repair, and assembly of structural steel members and shapes such as roof trusses, transmission towers, columns, beams, transformer racks, special truck body frames, and special transportation and construction equipment;
- Supervises the maintenance and lubrication of the machinery and equipment of a moderately large structural steel fabricating shop;
- Organizes the work of the shop to keep jobs in their correct time sequence;
- Makes work assignments by written or oral directions;
- Supervises the layout of material from plans and drawings;
- Instructs workers in the time records of subordinates;
- Checks machine setups and work in progress;
- Inspects fabricated shapes and members for accuracy of measurements, number of pieces, and quality of work;
- Inspects shop operations to insure safe practices and methods;
- Estimates the quantities of materials and hours of labor required for jobs;
- Cooperates with other shop supervisors in maintaining an even flow of work from shop to shop;
- Maintains morale and discipline;
- Makes reports of work completed and in progress;
- Orders material and makes field inspections and recommendations;
- May supervise craft workers in the repair of structures, crane ways, doors and gates or in the erection of scaffolding and rigging for heavy crane lifts or the inspections of fixed cranes and the installation of wire rope on cranes of over 25 ton capacity or in the dismantling, repairing and reassembling of large units;

All Classes: May occasionally be assigned to other duties for training purposes or to meet technological changes or emergencies.

Qualifications: A Structural Steel Fabricator must have the following knowledges and abilities:

A Knowledge of:

- Standard practices, materials, machines, tools, processes, and terminology of the structural steel trade, particularly related to fabrication and shop work;
- Use and operation of hydraulic presses, power punches, shears, power tools, grinders,

abrasive and hack saws, drill presses, pneumatic chipping hammers, welding applications, acetylene cutting torches, and various hand tools used in fabricating, altering, and assembling structural steel;

- Processes employed in shaping steel members by bending and rolling methods;
- Safety practices and first aid as applied to shop work and shop equipment;
- Rigging procedures and practices;

The ability to:

- Layout work accurately according to sketches and blueprints;
- Read and interpret shop drawings;

Qualifications: A Structural Steel Fabricator Supervisor must have the following knowledges and abilities:

A Knowledge of:

- Standard practices, materials, machines, tools, processes, and terminology of the structural steel trade, particularly related to fabrication and shop work;
- Use and operation of hydraulic presses, power punches, shears, power tools, grinders, abrasive and hack saws, drill presses, pneumatic chipping hammers, welding applications, acetylene cutting torches, and various hand tools used in fabricating, altering, and assembling structural steel;
- Processes employed in shaping steel members by bending and rolling methods;
- Safety practices and first aid as applied to shop work and shop equipment;
- Rigging procedures and practices;
- Steel fabrication and shop organization;
- Supervisory principles and practices;
- The provisions of Memoranda of Understanding as they relate to subordinates;
- The laws and regulations related to equal employment opportunity and affirmative action;
- City personnel rules and regulations;

The ability to:

- Layout work accurately according to sketches and blueprints;
- Read and interpret shop drawings;
- Make working sketches and give clear instructions;
- Estimate time and materials costs for structural steel fabrication and repair work;
- Prepare time, work, and material reports;
- Supervise the work of Structural Steel Fabricators and coordinates their work with that of other department units.

Minimum Requirements:

Four years of full time paid experience in work involving fabrication, welding, altering, and assembling structural steel members and shapes are required for Structural Steel Fabricator.

A Structural Steel Welding certificate issued by the Los Angeles City Department of Building and Safety is required for Structural Steel Fabricator.

Four years of full time paid experience as a Structural Steel Fabricator with the City of Los Angeles is required for Structural Steel Fabricator Supervisor.

Physical Requirements:

Structural Steel Fabricator: Strength to perform average lifting up to 70 pounds and occasionally over 70 pounds; body agility and equilibrium involved in climbing, balancing, and working under precarious conditions; and good eyesight.

Structural Steel Fabricator Supervisor: Strength to perform average lifting up to 15 pounds and occasionally over 25 pounds; good speaking and hearing ability.

Persons with disabilities may be able to perform the essential duties of this class with reasonable accommodation. Reasonable accommodation will be evaluated on an individual basis and depend, in part, on the specific requirements for the job, the limitations related to the disability, and the ability of the hiring department to accommodate the limitation.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what all the duties, responsibilities and required qualifications of any position shall be.