

New York State Department of Civil Service
Division of Classification & Compensation

Tentative Classification Standard

Occ. Code 7120190

Trades Specialist (Steel Fabrication), Grade 12

Brief Description of Class

Trades Specialists (Steel Fabrication) fabricate and repair a variety of items from structural steel and other metals and alloys from drawings, blueprints, written instructions and oral instructions using equipment such as drill presses, riveters, bending brakes, rolls, forges, lathes and welders.

Distinguishing Characteristics

Trades Specialist (Steel Fabrication): non-competitive; performs welding work on a variety of metals and alloys, using arc and gas welding equipment in an assigned area or facility. Incumbents plan and lay out work as specified by diagram, blueprint, work order, or instructions.

A Trades Specialist (Steel Fabrication) may supervise others in this work including semiskilled and unskilled workers.

Related Classes

Trades Generalists may perform journey-level steel fabrication activities. However, such positions are classified only where the incumbents perform skilled and semiskilled activities in a combination of trades.

Trades Specialists (Sheet Metal) perform journey-level sheet metal work including the fabrication of a variety of articles from sheet metal such as steel tables, special laboratory equipment, cabinets and sinks using specialized tools and equipment. The work may also require that the incumbent weld, solder, and braze.

Trades Specialists (Plumber & Steamfitter) perform journey-level plumbing and steamfitting work in the installation, alteration and repair of pipes, fittings, and fixtures of heating, ventilating, heating control, water, and drainage systems. This work may occasionally require the incumbent to weld, solder, and braze.

Illustrative Tasks

Fabricates and repairs lock gates and valves to ensure integrity of locks.

Repairs boilers and canal vessels by inserting patches and stay bolts and by retubing boiler coils.

Fabricates tapered pipes to connect rectangular and round openings and smokestacks for canal vessels.

Manufactures and repairs A-frames for derricks by riveting and welding parts together and welding cracks.

Fabricates shore pipe and pontoons used in dredging operations.

May fabricate steel structural members for bridges.

Independence of Operation

Trades Specialists (Steel Fabrication) are supervised by higher-level trades positions such as Trades Supervisor (various parentheses), Maintenance Supervisor 1, 2 or 3, or Canal Maintenance Supervisors 2. Generally, work priorities are prescribed, material is furnished, the nature and extent of the work to be performed is given, and detailed plans, diagrams, and specifications are provided. In the absence of such direction, the Trades Specialist (Steel Fabrication) sets priorities, requisitions materials, determines the work that has to be done, and lays out the work.

Although the work of Trades Specialists (Steel Fabrication) is periodically inspected by a supervisor, incumbents are expected to work with considerable independence that is typical of the skilled tradesperson.

Communication

The nature of a Trades Specialist's (Steel Fabrication) activities generally restricts relationships to employees working within the same organizational unit, including skilled tradespersons in other trades. However, incumbents may be expected to orally communicate with administrators and others in an agency or facility on the reasons why work is being accomplished in the manner selected.

Trade Specialists (Steel Fabrication) may supervise maintenance staff. Such relationships are characterized by frequent oral communications in assigning work and providing instructions. Written and oral communications with the general public are not typical of this class. The tasks of this class are predominantly thing-oriented and involvement with others is not a factor in determining its classification.

Supervision Exercised

A Trades Specialist (Steel Fabrication) may supervise a subordinate maintenance staff and/or individuals for whom the State has custody or responsibility by making assignments, giving instructions and observing and inspecting work performed to ensure that instructions have been followed and that the quality of the work is satisfactory.

Minimum Qualifications

Non-competitive: Four years of full-time experience in steel fabrication under a skilled tradesperson which would provide training equivalent to that given in a training, apprenticeship, or equivalent program; or an equivalent combination of experience and training gained by completion of technical courses in steel fabrication at a school, institute, or branch of the Armed Services.

When required to operate motor vehicles, candidates must possess a valid New York State driver's license appropriate for the type of vehicle to be operated.

Note: Classification Standards illustrate the nature, extent and scope of duties and responsibilities of the classes they describe. Standards cannot and do not include all of the work that might be appropriately performed by a class. The minimum qualifications above are those which were required for appointment at the time the Classification Standard was written. Please contact the Division of Staffing Services for current information on minimum qualification requirements for appointment or examination.

09/2026

MK