

TENTATIVE

Occ. Code 7120175

TRADES SPECIALIST (WELDER), GRADE 12

New York State Department of Civil Service

Classification Standard

BRIEF DESCRIPTION OF CLASS

Trades Specialists (Welder) lay out and fabricate a variety of metals including steel, iron, brass and aluminum and frequently supervise others in the construction, repair and maintenance of structures and equipment using electric arc and gas welding equipment in accordance with approved trade practices.

DISTINGUISHING CHARACTERISTICS

A Trades Specialist (Welder) is responsible for all welding work on a variety of metals and alloys using arc and gas welding equipment in an assigned area, on an assigned project, or for an entire facility. Incumbents plan and lay out work as specified by diagram, blueprint, work order, or oral instructions. All positions are in the non-competitive jurisdictional class.

A Trades Specialist (Welder) frequently supervises others in this work including semiskilled and unskilled workers.

RELATED CLASSES

Positions of Facility Operations Assistant 1 assigned to a Trades Specialist (Welder) assist by performing manual tasks involving elementary skills as directed while learning the practical techniques of the trade.

Trades Generalists may perform journey-level welding 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 DUTIES

Incumbents weld, braze, and cut metals and alloys according to written or oral instructions and previous experience, utilizing appropriate welding equipment and techniques and following approved trade practices. Illustrative activities include the following:

- Maintains repairs and fabricates metal equipment such as deckplate, furniture, bridge frames, kitchen and laundry equipment, steam lines, and tanks by the welding and cutting of steel plate, sheet metal, pipe, and other metal articles.
- Welds cracked and broken metal parts of passenger vehicles, trucks, snowplows, cranes, graders, and other automotive and construction equipment.
- Welds cracks in heavy casting including heat treatment as required, on engine blocks, bulldozer "A" frames, and power shovel main body castings.
- Performs oxyacetylene burning and carbon and steel electrode arc cutting of various types of metals.

COMMUNICATION

The nature of a Trades Specialist's (Welder) activities generally restricts relationships to employees working within the same organizational unit. As

assigned, a Trades Specialist (Welder) supervises various maintenance positions in a welding operation. Such relationships are characterized by frequent verbal communications in assigning work and providing instructions.

INDEPENDENCE OF OPERATION

Trades Specialists (Welder) are supervised by higher-level trades positions such as Trades Supervisor (Plumber & Steamfitter), Maintenance Supervisor (Motor Equipment) 1 or Maintenance Supervisor (Motor Equipment) 2, Maintenance Supervisor 2 or Maintenance Supervisor 3, or Canal Maintenance Shop Supervisors 2, who determine work priorities and the nature and extent of the work to be performed and furnish the materials and equipment. In the absence of such direction, a Trades Specialist (Welder) may set priorities, requisition needed materials and determine the work that has to be done.

Although the work of a Trades Specialist (Welder) is inspected periodically, incumbents are expected to work with considerable independence as is typical of a craftsman.

SUPERVISION EXERCISED

A Trades Specialist (Welder) frequently supervises subordinate maintenance positions in 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 under a journey-level welder which provided training equivalent to that given in an apprenticeship program. Apprentice training in welding gained by completion of technical courses in welding in a school, institute or branch of the Armed Services may be substituted for the above training and experience on a year-for-year basis.

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.