

The Maryland-National Capital Park and Planning Commission

TITLE: Senior Welder
SERIES: Building Trades

GRADE: T04 CODE: 5172
DATE: 3/28/02
FLSA: Non-Exempt

Class Definition

Under general supervision, performs the full range of difficult skilled welding work involving considerable responsibility, complexity, and variety. Performs fabrication, modification, and repair of various types of metal and alloy parts, equipment, and systems at Commission buildings, structures, and property. Operates a variety of welding equipment in completing difficult welding assignments (e.g., close tolerances, high strength requirements). May direct activities of other Welders, Trades Trainees, and Park/General Maintenance Workers who support skilled trades workers. Work is checked by Inspectors, Trades Shop Supervisors, and Lead Welders. Performs other related duties as assigned.

Examples of Important Duties:

1. Plans work. Receives work orders for welding projects. Reads and interprets building plans, blueprints, sketches, and mechanical drawings to determine equipment, materials, and methods. Inspects and troubleshoots buildings, assemblies, structures, and equipment for problems, damages or necessary repairs. Recommends corrective action and prepares estimates. Contacts inspectors to schedule inspections of projects.
2. Performs difficult welding work. Uses a variety of tools and equipment to manufacture, modify, assemble, and repair various steel and aluminum assemblies, structures, and equipment. Performs a variety of gas welding torch and arc welding processes. Performs related trade procedures such as measuring, brazing, soldering, surface hardening, annealing, metal spraying, metal painting, and flame and arc-cutting, incidental to welding work.
3. Devises special jigs and fixtures to hold parts to be welded, and uses techniques such as preheating, heat sinks, and stress relieving to maintain specified dimensions and to prevent distortion or burning of the parts to be welded.
4. Completes required administrative paperwork and recordkeeping.
5. Assigns and maintains inventory of power equipment, tools, safety equipment, and vehicles assigned to crew.
6. Drives vehicles to carry workers and haul tools, equipment, materials, and supplies to job sites. Loads and unloads tools, equipment, supplies, and materials. Sets up tools and equipment at work sites. Provides routine maintenance of vehicles and equipment. Takes assigned vehicles to garage for maintenance and repairs.
7. Assigns and checks work of other Welders, Trades Trainees, and Park/General Maintenance Workers who support skilled trades workers. Provides instructions and assists with training on proper procedures, methods, and safety.

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Important Worker Characteristics:

Considerable knowledge of: (1) standard welding practices and methods; (2) OSHA, MOSH, building, and fire codes; (3) Commission policies and procedures;* and (4) hazardous materials.

Skill in operation of: (1) Tig, Mig, gas welding and electric arc welding equipment; (2) various hand and power tools; (3) shop metal-working equipment; (4) motor vehicles; (5) light construction equipment (e.g. forklift); and (6) appropriate office equipment.

Ability to: (1) understand and apply principles to solve practical problems; (2) calculate fractions, decimals, and percentages; (3) read and understand manuals, blueprints, sketches, and drawings; (4) complete work orders and other work related paperwork; (5) distinguish different colors; (6) lift up to 100 pounds; (7) acquire CPR and first aid certification; and (8) work at heights.

* Developed primarily after employment.

Minimum Qualifications:

1. H.S. Diploma or GED; and
2. Completion of an approved welding apprentice program or four years of progressively responsible experience; and
3. Two years of experience at the journey level; or
4. An equivalent combination of education and experience totaling six years.
5. Valid driver's license.
6. Valid Commercial Driver's License (CDL) with appropriate endorsements may be required.
7. Pass Commission medical examination.

Working Conditions

Indoor/outdoor, exposure to varied weather conditions, confined spaces, heights, dirt, sparks, flames, explosive gases, and chemical odors. Must be available to work during emergencies.