

WELDER/FABRICATOR

DEFINITION

Under general supervision, performs a variety of welding and metal fabrication duties associated with domestic, reclaimed, and agricultural water and wastewater utility services; fabricates and installs special devices; repairs trailers, backhoes, tractors, and trucks; and performs related duties as assigned.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from assigned supervisory or management personnel. Exercises no direct supervision over staff.

CLASS CHARACTERISTICS

This classification is responsible for independently performing welding and metal fabrication duties in support of the District's domestic, reclaimed, and agricultural water and wastewater utility services programs. Positions at this level exercise judgment and initiative in their assigned tasks, receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the typical functions of the job.

- Performs a variety of welding duties in the field and in the shop associated with domestic, reclaimed, and agricultural water and wastewater utility services, including water lines, pump stations, and lift stations; fabricates and installs special devices; repairs trailers, backhoes, tractors, and trucks.
- Performs various welding activities associated with the cutting, fitting, laying, and repairing of domestic, reclaimed, and agricultural water and wastewater pipelines, and installation of meters, valves, and hydrants, and other appurtenant facilities.
- Performs other welding activities relating to repairs of heavy equipment such as backhoes, tractors, and trucks; fabricates special structures and devices.
- Reads blueprints and schematics and draws sketches to fabricate equipment and tools, prepares layouts, fabricates, and welds specialty projects related to pump stations, sewage lift stations, and other assigned projects.
- Operates a variety of maintenance and construction equipment, including vehicles, cranes, forklifts, hand and power tools used in welding, fabrication, domestic, reclaimed, and agricultural water and wastewater systems construction and maintenance work, such as arc welding and gas welding equipment, grinders, sanders, lathes and saws and related tools and equipment.
- Installs items that have been fabricated; as assigned, instructs, and oversees other District employees in the installation process of fabricated items.
- Fabricates and repairs fencing and security devices surrounding reservoirs and all other District owned property; designs security lock boxes for hatches and doors on reservoirs.
- Provides maintenance assistance, and coordinates work assignments across functional areas and with agency contractors and subcontractors, in assigned projects and tasks.

- Plans, estimates time, coordinates, requisitions materials, performs and prepares reports related to assigned tasks; completes and maintains records of work performed and materials used.
- Participates in the development of District Safety programs; observes and complies with all District and mandated safety rules, regulations, and protocols.
- Performs related duties as assigned.

QUALIFICATIONS

Knowledge of:

- Methods, techniques, tools, equipment, and supplies used in the welding and fabrication of domestic, reclaimed, and agricultural water and wastewater utility services.
- Welding properties of various metals and alloys.
- Operational characteristics of a variety of tools and equipment including band saw and iron worker.
- Basic metallurgy.
- Methods, materials, practices, equipment, and tools required for pipeline, hydrant service, and meter installation and repair.
- The use of power operated and hand tools and safety gear.
- Basic mathematical principles.
- Principles and procedures of record keeping.
- Occupational hazards and standard safety practices.
- Applicable federal, state, and local laws, codes, and ordinances relevant to area of responsibility.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors and District staff.
- The structure and content of the English language to effectively perform the work.
- Modern equipment and communication tools used for business functions and program, project, and task coordination, including computers and software programs relevant to work performed.

Ability to:

- Perform a variety of welding functions in the maintenance and upkeep of District equipment.
- Operate a variety of welding equipment in a safe and effective manner.
- Determine correct welding rod and procedure for work to be completed.
- Identify problems and make concise and correct decisions.
- Complete appropriate records and documents.
- Perform precision tolerance fit-ups and layout fabrication from blueprints.
- Respond to emergency call-out situations during working hours, after hours, and on weekends and holidays as assigned.
- Independently organize work, set priorities, meet critical deadlines and follow-up on assignments.
- Use tact, initiative, prudence and independent judgment within general policy and procedural guidelines.
- Effectively use computer systems, software applications relevant to work performed and modern business equipment to perform a variety of work tasks.
- Communicate clearly and concisely, both orally and in writing, using appropriate English grammar and syntax.
- Establish, maintain, and foster positive and effective working relationships with those

contacted in the course of work.

Education and Experience:

Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Education:

Equivalent to the completion of the twelfth (12th) grade supplemented by specialized training in welding and fabricating.

Experience:

- Three (3) years of experience performing welding duties in the maintenance and repair of mechanical equipment.

Licenses and Certifications:

- Possession of a valid A.W.S. D-1.1 Welding Certification.
- Possession of a valid ASME Sec. 9 Certification for Pipe Welding.
- Possession of a valid California Class C driver's license, to be maintained throughout employment.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT

The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

ENVIRONMENT

Shop environment working near moving mechanical parts; occasional field environment with some travel from site to site; exposure to noise, dust, grease, fumes, gases, electrical energy, potentially hazardous chemicals, vibrations, and inclement weather conditions; work on slippery surfaces; frequently works near moving mechanical parts; works in precarious places.

PHYSICAL

- Level Three
- Pulmonary

Incumbents require sufficient mobility to work in a field environment; walk, stand, and sit for prolonged periods of time; frequently stoop, bend, kneel, crouch, crawl, climb, reach, and twist; push, pull, lift, and/or carry moderate to heavy amounts of weights; operate assigned equipment and vehicles; ability to verbally communicate to exchange information.

VISION

See in the normal visual range with or without correction; vision sufficient to read computer screens and printed documents; and to operate assigned equipment.

HEARING

Hear in the normal audio range with or without correction.