

MERCED IRRIGATION DISTRICT
FABRICATOR/WELDER
FLSA STATUS – Non-Exempt
Bargaining Unit – IBEW, Local 1245
Classification Level – Per IBEW Wage Schedule

DEFINITION

Under general supervision, perform journeyman level welding and blacksmith work in the fabrication and repair of metal, metal equipment and tools and make minor mechanical repairs to gasoline and diesel driven automotive, construction and other related equipment. Perform other related work as required.

ESSENTIAL FUNCTIONS OF THE POSITION:

- Build, repair and/or modify gates, valves, frames or other irrigation structural parts including metal parts connected with maintenance of pumps. Makes metal repairs on machinery and metal appurtenant to buildings. Perform welding, cutting and fabrication in the field when required.
- Use acetylene and electrical equipment in the heating, welding, cutting, and brazing of metals in accordance with standard safety and trade practices.
- Operate a lathe in the fabrication of various metal appurtenances.
- Lay out and design work project and operate machine-shop type equipment.
- Cut, weld and resurface small and large castings, braze various non-ferrous metals; hard face special metal parts.
- Set up, regulate and make minor repair on welding equipment.
- Design and fabricate machinery, equipment and parts.
- Perform light mechanical repairs on gasoline and diesel powered automotive and construction equipment. Use various test equipment during engine repair work. Make a variety of emergency repairs out of shop.
- Requisition needed supplies and materials.
- Maintain work, time and material records.
- Abide by all District policies, guidelines and rules.
- Perform related work as required.

KNOWLEDGE AND ABILITIES

Knowledge of:

- Equipment, materials, preparation of materials and techniques employed in the blacksmith trade and welding, brazing, and hard facing and brushing and grinding welds, proper methods of joining metals.
- Occupational hazards of the trade and of appropriate precautionary measures and of proper safety procedures.
- Properties of various metals in relation to welding and brazing, such as their reaction to heat, fusing qualities, and the proper temperature for welding, cutting or brazing.
- Welding rods and their applications.
- Tools, equipment and procedures used in the minor repair and adjustment of automotive and related power driven equipment.
- Operating principles of gasoline and diesel engines and of minor mechanical repair of vehicles and equipment.

FABRICATOR/WELDER

Ability to:

- Perform journeyman level welding and blacksmith work.
- Maintain and make minor repairs in welding equipment.
- Use a variety of welding and shop equipment in the repair and fabrication of tools and equipment such as saws, hammers, chisels, brackets, electrical hot tools, and generator parts.
- Ability to fabricate simple parts; knowledge of and skill in using the methods, materials and equipment of the machinist, mechanic and welding trade.
- Design and fabricate tools, equipment, and parts.
- Perform sheet metal work and plumbing.
- Perform painting, sand blasting, and steam cleaning.
- Perform minor mechanical repair and adjustments on automotive and related power driven mechanical equipment.
- Follow oral and written instructions.
- Read blueprints and perform basic layout and design work.
- Estimate material requirements.
- Establish and maintain cooperative relationships with those contacted in the course of work.

SPECIAL REQUIREMENTS:

- Possession of an appropriate California Drivers License.
- A Department of Motor Vehicles "Driver Record Information" print-out will be required at time of hire and throughout employment. Must be enrolled in District's DMV pull-notice program.

MINIMUM QUALIFICATIONS

EDUCATION:

Any combination of education and experience equivalent to completion of high school.

EXPERIENCE:

Two (2) years' experience in metal work, including welding, cutting and lathe work;

TYPICAL PHYSICAL DEMANDS:

The physical and mental demands of this position are described below. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of the position.

- Work involves exposure to dust, lubricants, cleaning solutions and chemicals.
- Travels regularly by vehicle in inspecting District facilities and conducting field operations.
- Works in an outdoor environment.
- Stoops, kneels, crouches, crawls and climbs as required during performance of duties.
- Communicates orally with District management, co-workers and the public in face-to-face, one-on-one and group settings.
- Regularly uses a telephone and radio for communication.
- Uses office equipment such as computer terminals, copiers and FAX machines.
- Walks on uneven terrain, outdoors in all weather conditions.
- Hearing and vision within normal ranges.

FABRICATOR/WELDER

Sitting:	Remains in a seated position for up to eight (8) hours per day.
Standing:	Remains in a standing position for up to eight (8) hours per day.
Hands/Arms:	Operates vehicles and delivery gates for up to eight (8) hours per day
Lifting:	Raises and lowers supplies and equipment up to fifty (50) pounds.
Stooping:	Bends body downward and forward by bending at the knees or waist
Talking:	Expresses ideas and shares information by means of spoken work in person and by telephone.
Hearing:	Hears well enough to receive communications in person and by telephone.
Vision:	Operates vehicles and office equipment.

ENVIRONMENTAL FACTORS:

- Exposure to the sun: 50% or less work time spent outside a building and exposed to the sun.
- Irregular or extended work hours: Per the Memorandum of Understanding (MOU).
- Work performed in an outside environment with exposure to dust, dirt and significant temperature changes between heat and cold.

ESSENTIAL MENTAL ABILITIES:

- Exercise independent judgment.
- Self directing and organized.
- Reason objectively.
- Assess, project and plan work activities on a daily and weekly basis.
- Document concisely, accurately and timely.