

**CLASS SPECIFICATION****04-25-2024****UTILITY WELDER ASSOCIATE, 3625**

Summary of Duties: A Utility Welder Associate performs duties related to the fabrication, modification, installation, and construction of all types of structural members for water pipes, buildings, towers, racks, tanks, and frame works for structures within the infrastructure of the Department of Water and Power.

Class Characteristics: Utility Welder Associates are appointed to positions which are designated as temporary training positions in accordance with Section 5.30 of the Rules of the Board of Civil Service Commissioners. As trainees, employment is limited to 48 months, during which time they must successfully complete an intensive specialized course curriculum with a written and practical exam to qualify for promotion to a journey-level position with a six month probationary period.

Utility Welder Associates may work in hazardous conditions, such as high voltage stations, and in remote locations.

Examples of Duties:

- Lays out, cuts, bends, and fits material for welding;
- Welds items such as boiler tubing, pipe sections and fittings, brackets, tanks, transformers, high pressure turbine cases, transformer cases, fabricated metal parts, crankcases, radiators, frames, automotive bodies, high pressure process piping in generating stations and water trunk lines, while working with multiple types of alloys and hydraulic runners;
- Brazes metals;
- Hard faces special parts requiring a high degree of hardness, such as power shovel bucket teeth, grader blades, and cutting tools;
- Builds up worn and undersized machine parts;
- Inspects, approves, and rejects contract welding;
- Takes and directs the taking of samples of welding work;
- Inspects welds for porosity and degree of penetration;
- Makes and uses templates and jigs;
- Cleans and heats metals;
- Sets up, regulates, maintains, and makes minor repairs to welding equipment;
- Cleans, peens, and grinds completed welds;
- Keeps records of time and materials for various jobs;
- May repair leaks on water mains in service;
- May be required to operate a submerged arc or inert welding machines;
- May work in stress relieving or frame straightening on large automotive apparatus;

- May operate metal spraying and automated cutting equipment;
- May assist supervisors in designing modifications in equipment; and
- May occasionally be assigned to other duties for training purposes or to meet technological changes or emergencies.

Requirements:

1. One year of full-time paid experience assisting in the performance of metal or mechanical trades; or
2. One year of training in a metal trade at the high school or trade school level.

License:

- A valid California Driver's License is required.

Physical Requirements:

- Strength to perform average lifting up to 70 pounds;
- Arm, hand, and finger dexterity (with both hands) involved in activities such as reaching, handling, and feeling; and
- Good eyesight.

Persons with disabilities may be able to perform the essential duties of this class with reasonable accommodation. Such accommodation will be evaluated on a case by case basis and depend, in part, on the specific requirements for the job, the limitations related to the disability, and the ability of the hiring department to reasonably accommodate the limitations.

As indicated in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory, and not restrictive. It is not intended to declare what all of the duties and responsibilities of any position shall be.