

SAN BERNARDINO MUNICIPAL WATER DEPARTMENT CLASSIFICATION SPECIFICATION

TITLE: WELDER I

DATE: 07/01/2025

JOB CODE: 1290

FLSA STATUS: NON-EXEMPT

UNIT REPRESENTATION: GENERAL

Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are not intended to reflect all duties performed within the job.

DUTIES SUMMARY

Under general supervision, to perform welding and fabrication work in repairing, installing, and modifying Department facilities such as well and booster stations; perform fabrication tasks for light and heavy equipment maintenance; perform small tool fabrications; and perform related work as required.

DISTINGUISHING CHARACTERISTICS

The class of Water Utility Welder I is the entry/journey level in the welding series. Supervision is received from a Water Utility Supervisor, or as designated by the Director of Water Utility. Oversight and lead direction is received from a Welder II or Water Utility Lead Worker.

EXAMPLES OF DUTIES

The following duties are typical essential duties for positions in this classification. Any single position may not perform all of these duties and/or may perform similar related duties not listed here:

- Provide courteous and expeditious customer service to the general public and City and Department staff;
- Routinely adhere to and maintain a positive attitude toward City and Department goals;
- Operate acetylene and electrical welding equipment;
- Read blueprints to determine the layout of metal fabrications;
- Overhaul, rebuild, and service damaged fire hydrants; manufacture replacements for wearing parts;
- Operate light tractors and medium trucks;
- Use drill presses, grinders, metal saws, wrenches, jacks, chisels, vice grips, jigs, hydraulic presses and metal shears;

- Braze metals, matching metals to heat acceptance;
- May weld stainless steel;
- Fabricate pipe and meter locking devices;
- Fabricate templates from blueprints;
- May weld and fit pipe in the field;
- Ensure that safety precautions are observed in the shop and in the field;
- Drive a truck with welding equipment to the job site;
- Research new operational methods and techniques for application to assigned tasks;
- Required to wear respiratory protective equipment to include Self Contained Breathing Apparatus (SCBA);
- Keep labor and material records.

QUALIFICATIONS

Any combination of education, training, and experience that would likely provide the knowledge, skills, and abilities to successfully perform in the position is qualifying. A typical combination includes:

Knowledge of:

- Oxyacetylene gas welding procedures and methods;
- Electrical welding procedures and methods;
- Types of metal and their characteristics in welding;
- Effects of heat on metals;
- Gas-cutting techniques;
- Basic fabrication methods;
- Occupational hazards and safety precautions common in welding and pipeline construction;
- Welding processes;
- Electrodes and consumables;
- Welding metallurgy;
-

Ability to:

Perform the following in a training/learning capacity:

- Weld in all phases of MIG, TIG, and STICK welding of: Steel, stainless steel, and aluminum; Plasma cutting, welding, fabricating, and work with all types of metals;
- Weld various curved metals using gas or electric arc;
- Safely and effectively operate, repair, and maintain hand, power, and shop tools and equipment used in work performed;
- Plan and lay out work from sketches, blueprints, and job requisitions; identify measurements of items to be welded or fabricated; assess appropriate equipment and methods;
- Perform manual work, welding, and pipefitting practices under all weather conditions;
- Perform a range of arc and gas welding assignments and tasks, including pipe welding, Oxygen acetylene and plasma cutting; lift and well site fabrication and maintenance; locking devices and anti-theft deterrent components; fabrication of spools and flanges;
- Perform welding fabrication and repair of miscellaneous valve wrenches and meter tools; fabricate safety enclosures;
- Weld traffic plates; fabricate, erect, and repair fences and gates; use appropriate welding procedures to secure and repair pump stations and other buildings;
- Read and write at a level sufficient for job success;
- Understand and carry out oral and written instructions;
- Perform shop math related to the welding trade;
- Operate a vehicle observing legal and defensive driving practices;
- Establish and maintain effective relationships with those contacted in the course of work;
- Maintain a driving record which meets Vehicle Code Standards and is acceptable to the Department and its insurance carrier;
- Be physically capable of entering permit-required confined spaces and wearing Self Contained Breathing Apparatus (SCBA) equipment;
- Operate an atmospheric tester for entry into confined spaces;
- Wear protective respiratory equipment including SCBA and personal escape respirator.

MINIMUM QUALIFICATIONS

Education: Graduation from high school or GED/equivalent,
And

Experience: Two (2) years of journey level experience in gas and electric welding fabrication and repair on all metals.
And

Certificate:

Must obtain and maintain a valid California State Water Resources Control Board (SWRCB) Water Distribution Operator Grade 1 certificate six (6) months after appointment.

Obtaining and maintaining required certification is a condition of employment. Failure to obtain and maintain any required certifications noted within the stipulated timeframes shall be considered grounds for termination. The responsibility for obtaining and maintaining certifications is the sole responsibility of the employee.

NECESSARY SPECIAL REQUIREMENTS

Possession of a valid California Class "C" driver's license required upon application. Note: For out-of-state applicants, a valid driver's license is required and a valid California Class "C" driver's license must be obtained within ten (10) days of appointment (CA Vehicle Code 12505c).

Must be clean shaven or trimmed facial hair in order to properly use personal respirators. Must pass a respirator medical exam and be physically able to wear respirator equipment. Must be able to work in enclosed spaces while wearing protective clothing under extreme temperatures and hazardous environment.

PHYSICAL TASKS AND ENVIRONMENTAL CONDITIONS

Work involves exposure to potential physical harm, hazardous chemicals, and infectious disease including smoke, fumes, gas, treated water, high frequency noise, dirt, dust, grease, oil, chemicals, solvents and toxic agents. Incumbents need to be able to tolerate unpleasant odors, wet conditions, and uncomfortable climatic conditions. There is frequent need to stand, stoop, walk, crawl, climb, and perform other similar actions during the course of the workday.

Incumbents require sufficient mobility to work in a field setting in varying weather conditions, to operate hand tools and mechanical and motorized equipment, to transport materials and supplies weighing up to 75 pounds, and to travel to various locations. Must be able to see in the normal visual range with or without correction with vision sufficient to see color and read small print as well as distance. Must be able to hear in the normal audio range with or without correction. Employee accommodations for physical or mental disabilities will be considered on a case-by-case basis.

CAREER LADDER

From: Welder I

To: Welder II

Job Description:

BOWC Approved:

12/4/2001

Rev:

4/4/2006

11/21/2006

Board Approved: Title change from Welder/Pipefitter

7/1/2025

Testing Standards App Review/Supp App Review/Welding Performance (Dept.)