

SAN BERNARDINO MUNICIPAL WATER DEPARTMENT CLASSIFICATION SPECIFICATION

TITLE: WELDER II

DATE: 07/01/2025

JOB CODE: 1291

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 lead, guide, and participate fully in the work of welding crews engaged in skilled welding, pipefitting and fabrication work in the repair, installation, and modification of Department facilities such as wells and booster stations. Perform fabrication tasks for equipment maintenance; perform work on distribution and transmission mains; read and interpret blueprints and schematics; lead a small work crew; and perform related work as required.

DISTINGUISHING CHARACTERISTICS

The class of Welder II is the advanced journey/lead level in the welding pipefitting series. Incumbents routinely assign specific tasks to crew members in the shop or in the field, train, instruct, and correct the work of assigned staff ensuring that accepted work and safety methods are practices. Supervision is received from a Water Utility Supervisor, or as designated by the Director of Water Utility.

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;
- Build, modify, and repair new and existing pump stations from sketches and blueprints or your judgment and initiative when sketches and blueprints are not available;
- Weld nozzles on existing pipelines; layout and fabricate various sizes of pipeline offsets; make tie-ins; install mainlines and well discharge pipe, including pipe supports, valves, and check valves, install and repair hydrants;
- Order parts, supplies, and materials; maintain inventory control over tools, equipment, and materials;

- Operate light tractors and medium trucks;
- Use drill presses, grinders, metal saws, wrenches, jacks, chisels, vice grips, jigs, hydraulic presses and metal shears;
- Brazes metal, matching metals to heat acceptance;
- May weld stainless steel;
- Fabricate pipe and meter locking devices;
- Fabricate templates from blueprints;
- May plan a project when more than one trade is involved;
- 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;
- May direct the work of assigned helpers;
- 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:

- Principles and practices for framing; speed and combination squares;
- 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 journeyman level fabrication methods;
- Occupational hazards and safety precautions common in welding and pipeline construction;
- Welding processes;
- Electrodes and consumables;

- Welding metallurgy;
- Joint design, material preparations, welding workshop and analysis;

Ability to:

- Plan and layout work from sketches, blueprints, job requisitions, or verbal instructions;
- Schedule and coordinate activities with other sections;
- Repair, modify, install, and/or rebuild metal fixtures, structural parts of buildings, machinery, and other structures utilizing welding and fabrication skills;
- Perform a range of arc and gas welding assignments and tasks including pipe welding, TIG welding, MIG welding, STICK welding, stainless steel welding, aluminum welding, oxygen/acetylene, and plasma cutting, well and booster site fabrications and maintenance. Locking devices and theft deterrent components, and fabrication of spools and manifolds;
- Perform a diverse range of welding tasks on active pressurized water distribution/transmission mains including wet and through water;
- Independently organize work, set priorities, meet critical deadlines, and follow up on assignments;
- Perform metal fabrication by cutting, shaping, drilling, and welding;
- Perform welding fabrication and repairs related to miscellaneous valve wrenches, meter readers, as well as electrical fabrication repair requests;
- 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;
- Maintain accurate logs, records, and basic written records of work performed; transfer data into computerized work order system;
- Operate a vehicle observing legal and defensive driving practices;
- Establish and maintain positive and 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 to include SCBA and personal escape respirator.

MINIMUM QUALIFICATIONS

Education: Graduation from high school or GED/equivalent,

And

Experience: Five (5) years of journey level welding experience with journey level knowledge of water distribution and transmission pipelines,

And

Certificate: Must have and maintain a valid California State Water Resources Control Board (SWRCB) Water Distribution Operator Grade 1 certificate at the time of application. Must submit a copy of the required certificate with application.

Must obtain and maintain an AWS 6G pipe welding certificate within 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 / Pipefitter

To: Water Utility Lead Worker
Water Utility Supervisor

Job Description:

Board Approved:

7/1/2025

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