

SAN BERNARDINO MUNICIPAL WATER DEPARTMENT CLASSIFICATION SPECIFICATION

TITLE: WELDER / PIPEFITTER

DATE: 01/09/07

JOB CODE: 21780

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 skilled welding and pipefitting work in a variety of water system construction and maintenance activities; to lead a small work crew; and to do related work as required.

DISTINGUISHING CHARACTERISTICS

The class of Water Utility Welder/Pipefitter is the journey level in the welding pipefitting series. Supervision is received from a Water Utility Lead Worker, 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:

- Provides courteous and expeditious customer service to the general public and City Department staff;
- Routinely adheres to and maintains a positive attitude towards City and department goals;
- Operated acetylene and electrical welding equipment;
- Installs water lines and constructs pipe angles and fittings as required;
- Reads blueprints to determine the layout of metal fabrications;
- Welds steel pipe and damaged fire hydrants;
- Requisitions materials as needed;
- Operates light tractors and medium trucks;
- Uses drill presses, grinders, metal saws, wrenches, jacks, chisels, vice grips, jigs, hydraulic presses and metal shears;

- Brazes metals, matching metals to heat acceptance;
- May weld stainless steel;
- Fabricates pipe and meter locking devices;
- Fabricates templates from blueprints;
- May plan a project when more than one trade is involved;
- Welds and fits pipe in the field;
- Ensures that safety precautions are observed in the shop and in the field;
- Drives a truck with welding equipment to the job site;
- May direct the work of assigned helpers;
- Required to wear respiratory protective equipment to include Self Contained Breathing Apparatus (SCBA);
- Keeps 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;
- Joint design, material preparations, welding workshop and analysis;

Ability to:

- Weld in all phases of MIG, TIG, and STICK welding of: Steel, stainless steel, and aluminum; Plasma cutting, welding, fabricating, and basically working with all types of metals;
- Weld various curved metals using gas or electric arc;
- Lay a continuous bead on a pipe seam weld;
- Tack weld selecting appropriate rods;
- Join pipes of various sizes and metals by welding;
- Perform manual work, welding, and pipefitting practices under all weather conditions;
- Work from blueprints, drawings, sketches, specifications and technical manuals;
- 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 contact 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 G.E.D. equivalent,

And

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

And

Certificate: 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).

NECESSARY SPECIAL REQUIREMENTS

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:

BOWC Approved:	11/21/2006
CSB Approved:	01/09/2007

Testing Standards:

Open/City Promotional/Civil Service Oral/ Welding Performance by Dept:	04/11/2006
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