

Class Definition

Under general supervision, performs work in the fabrication and repair of a variety of ferrous and non-ferrous metal parts using acetylene or electric welding apparatus. Operates a variety of hand and electric tools in performing metal fabrication, welding and brazing.

Distinguishing Characteristics

These positions are both located in the Public Works Department. They are distinguished from each other by the level of expertise required and the requirement for Welding Certification at the II level.

Typical Tasks

Welds with acetylene and arc welding equipment; selects proper welding heat, type and size of welding rods for correct penetration and strength of welded metals.

Preheats and cleans metals, lays out, cuts and fits materials for welding.

Straightens and repairs bent and damaged equipment and tools.

Fabricates bumpers, tow bars, ladder racks, tool boxes, and pipe railings.

Fabricates parts from drawings and sketches.

Performs blacksmithing, such as fabricating eye bolts, braces, angle brackets; adds metal to tools and parts.

Performs related work as required.

Knowledge, Abilities, and Skills

Knowledge of the standard practices, methods, tools and materials used in welding.

Knowledge of the properties of ferrous and non-ferrous metal encountered in welding work.

Knowledge of the occupational hazards and safety precautions common in welding.

Ability to fabricate new parts using old parts as patterns.

Ability to understand and follow oral and written instructions and to read and work from sketches and drawings.

Ability to read engineering drawings and do shop-type math problems.

Skill in the use and care of tools and equipment common to welding.

Minimum Requirements

Sufficient education, training, and experience to demonstrate the knowledge, skills and abilities listed above. These would normally be acquired by graduation from high school or accredited trade school; completion of a recognized apprenticeship in the welder's trade; or any equivalent combination of training and experience which provides the required Knowledge, Skills, and Abilities.

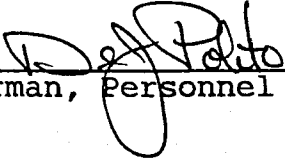
For the II Level

A minimum of five years Journey Level Welding experience and State Welding Certification.

Special License

Both positions require a valid California Driver's License.

APPROVED

  
Chairman, Personnel Board

DATE

12/18/90

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