

**CLASS SPECIFICATION**  
**SAN DIEGO CITY CIVIL SERVICE COMMISSION**  
**WELDER - 1985**

**DEFINITION:**

Under general supervision, to perform skilled acetylene, electric, and semi-automatic welding; to heat, cut, shape, and braze metal; and to perform related work.

**\* EXAMPLES OF DUTIES:**

- Performs skilled welding in fitting and repairing automotive equipment, bridges, metal fences, piping systems, pumps, sprocket assemblies, motor drive units, and similar equipment and components;
- Lays out, marks, and fabricates metal structures, parts, and similar special installations;
- Welds light and heavy gauge metals and piping;
- Operates a cutting torch to cut and shape metal to close specifications; brazes and silver solders copper piping and fittings;
- Rivets, forms, and fixes metal parts and assemblies;
- Performs general anvil and hammer work;
- Forges, dresses, tempers, and sharpens tools;
- Prepares and grinds weld bead for desired finish;
- Constructs and repairs vehicle and equipment frames;
- Rebuilds crawler tractor rails and tracks;
- Performs shielded arc welding; welds cast iron, aluminum, and stainless steel;
- Fabricates brackets, clamps, railings, eye bolts, and support beams;
- Operates hand and power metal working tools and machines;
- Designs and reads blueprints and schematics in laying out work;
- Prepares cost estimations;
- When directed, applies productivity time guidelines and other required data to work repair forms;
- Trains and leads the work of apprentices and assigned personnel.

**MINIMUM QUALIFICATIONS:**

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Announcement for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

Four years of full-time journey-level experience in all phases of work as a Welder/Fabricator. Qualifying experience must include combination welding (electric and acetylene) and the complete operation of all phases of Metal Inert Gas (MIG), Tungsten Inert

- \* **EXAMPLES OF DUTIES** performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.

Gas (TIG), and Oxy-Acetylene welding processes, including fabrication of parts; **OR** successful completion of a State accredited four-year Welder Apprenticeship Program in combination welding (electric and acetylene); **OR** an equivalent combination of the above experience and training equaling four years.