

EL DORADO IRRIGATION DISTRICT
Class Specification

CLASS TITLE: Senior Layout and Fabrication Welder

DEFINITION

Under direction organizes, assigns and reviews the work of assigned personnel engaged in layout and related design and fabrication of metal components on various vehicles and construction equipment and system-wide mechanical facilities; performs duties requiring specialized knowledge; and provides administrative support to assigned supervisor.

DISTINGUISHING CHARACTERISTICS

This is the advanced journey level in the Layout and Fabrication Welder series. Positions at this level are distinguished from other classes within the series by the level of responsibility assumed, complexity of duties assigned, independence of action taken, by the amount of time spent performing the duties, and by the nature of the public contact made. Employees perform the most difficult and responsible types of duties assigned to classes within this series, including providing technical and functional supervision over assigned personnel and perform difficult and complex layout, design, metal fabrication, and welding work. Employees at this level are required to be fully trained in all procedures related to assigned areas of responsibility.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from a higher level supervisor or manager. Exercises technical and functional supervision over assigned technical personnel.

EXAMPLES OF ESSENTIAL DUTIES: *the duties specified below are representative of the range of duties assigned to the class and are not intended to be an inclusive list.*

Plans, prioritizes, and reviews the work of staff assigned to a variety of layout, design, metal fabrication, and welding activities.

Develops schedules and methods to accomplish assignments ensuring work is completed in a timely and efficient manner.

Participates in evaluating the activities of staff, recommending improvements and modifications.

Provides and coordinates staff training; works with employees to correct deficiencies.

Assists District personnel regarding project work and selection of appropriate materials and alloys; plans work to complete projects/assignments and performs related layout and design activities; reviews proposed project drawings relative to fabrication and welding requirements.

Designs and fabricates cab and chassis structure requirements on a variety of vehicles and light, medium, and heavy equipment; fabricates material handling structures, tooling requirements, and operator safety items.

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Designs, fabricates, and installs mechanical equipment related to the operation of pump stations, regulator stations, booster stations, and pipe galleries; responds to system distribution failures and makes required repairs.

Fabricates and installs securing structures to various tanks, building structures, and hydroelectric spillways; designs, fabricates, and installs metal walkways, staircases, safety railings, and access covers.

Repairs equipment and vehicle parts, tooling, buildings, fences, and security gates; installs finished projects for water, wastewater, system maintenance, hydroelectric and recreational areas at on-site locations; performs pipeline taps and field welding for construction and maintenance crews.

Maintains fabrication facility records, including project schedules, designs, bid responses, and materials and staffing requirements.

Prepares cost estimates for budget recommendations; submits justifications for equipment; and monitors and controls department cost expenditures

Performs the most difficult work related to layout, design, metal fabrication, welding, and installation of a variety of District facilities and equipment.

Builds and maintains positive working relationships with co-workers, other District employees and the public using principles of good customer service.

Performs related duties as assigned.

QUALIFICATIONS

Knowledge of:

Principles and practices of technical and functional supervision and training. Methods, practices, tools and equipment used in the oxyacetylene, MIG, TIG, plasma cutter and electric arc welding trade. Properties and characteristics of various metals; structural integrity of metals in various shapes and applications in the design, fabrication, and welding of water utility projects. State, Federal and local safety regulations related to access areas, handrails, walkways, and ladders.

Skill/Ability to:

Provide technical and functional supervision over assigned staff; effectively train staff. Perform the most complex duties related to layout, design, fabrication, welding, and installation of metal components and equipment. Use and maintain a variety of welding, hand, power, and shop tools. Estimate cost and availability of materials, equipment, and personnel needed to complete assignments. Maintain records and reports. Read and interpret manuals, specifications, drawings,

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and blueprints. Use shop mathematics to make calculations. Establish and maintain effective working relationships with those contacted in the course of work. Communicate clearly and concisely, both orally and in writing. On a continuous basis, know and understand operations, and observe safety rules; intermittently analyze problem equipment; identify and locate equipment; interpret work orders; remember equipment location; and explain jobs to others. Intermittently, sit while studying or preparing reports; bend, squat, climb, kneel and twist when performing installation/repair of equipment; perform simple and power grasping, pushing, pulling, and fine manipulation; and lift or carry weight of pounds or less.

Experience and/or Education:

Any combination of experience and training that would provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Experience:

Two years of responsible journey experience similar to Layout and Fabrication Welder with the El Dorado Irrigation District.

Education:

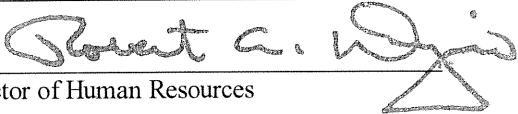

Equivalent to the completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:

Possession of, or ability to obtain, a valid California driver's license at the time of appointment. Individuals who do not meet this requirement due to physical disability will be reviewed on a case-by-case basis.

Possession of a Welding Certificate for Shield Metal Arc Weld Base Metal A53-B.

	
Director of Human Resources	Date
Established: 08/18/2009	
Revised: 05/26/2010	
FLSA: Non-Exempt	
Unit: Safety	