

## SENIOR WELDER

### DEFINITION

Occupants of this classification are in the classified service. The positions assigned to this classification lead and participate in the repair, fabrication, schematics, and welding of metal parts and equipment using routine and complex or advanced welding and fabrication by acetylene and electric arc methods. The incumbents of this classification, and maintain the welding and fabrication shop and all associated equipment and supplies.

### SUPERVISION RECEIVED AND EXERCISED

The positions assigned to this classification report to Fleet Services Equipment Maintenance Supervisor. Responsibilities may include supervision of Welders and Fleet Services Assistants~~Equipment Service Workers~~.

### ESSENTIAL JOB DUTIES

The following tasks are essential for this position. Incumbents in this classification may not perform all of these tasks, or may perform similar related tasks not listed here.

1. Leads, organizes, and participates in performing welding jobs for all City departments as requested. Makes welding repairs on City equipment, facilities, and ~~other~~ motorized vehicles.
2. Performs other metal fabricating, bending, cutting, shaping, and welding, to pipes, vessels, and hard surfacing services.
- 2-3. Removes, cleans and reinstalls necessary parts to complete welding and/or fabrication repairs.
- 3-4. Determines work procedures, may assigning duties, ~~training~~, assisting in solving work problems, enforcing City regulations and policies, and promoting work efficiency. Monitors the quality and quantity of the work produced by the welding and fabrication shop of subordinates.
- 4-5. Identifies better methods for meeting service demands and ensures work is performed in a safe and timely manner. Makes hazardous, confined areas safe and workable.
6. Creates work orders for the welding section and; generates related ~~writes~~ purchasing requisitions. Communicates with vendors to review welding material requirements; may talk with vendors; gathers cost information, creates and maintains vendor records, provides cost analysis and maintains, creates, and justification es data for purchase of equipment and/or materials as required
7. Orders parts, materials, metals, and reviews material needs with City vendors. Ensures product and material stock on hand are sufficient to complete welding repairs.
- 5-8. Performs assigned duties independently using the department's policies and procedures and industry standards as a guide.

**MINIMUM KNOWLEDGE, SKILLS AND ABILITY****Knowledge of:**

- ] ~~The o~~Operation, adjustment, care, and minor repair of oxy-acetylene and arc welding tools, supplies, gases, and equipment.
- ] Types of welds, joints, and welding materials ~~rods~~-used in welding operations.
- ] Proper preparation of metals and materials for welding.
- ] ~~Knowledge of w~~Welding, cleaning, cutting, and brazing practices and processes including metals, their properties, their composition, and methods of identifying and welding them.
- ~~] Methods of supervision.~~
- ~~] Basic mathematics.~~
- ~~] Welding industry and CalOSHA safety standards and procedures.~~

**Skill and Ability to:**

- ] Perform heavy and physically demanding work for lengthy and continuous periods of time.
- ] Operate and use hand tools and welding equipment such as lathe, brake press, iron worker, nibbler, ~~and~~-drill press, and plasma and milling machines.
- ] Set up and adjust oxy-acetylene, electric-arc, and other welding apparatus.
- ] Weld all types of joints.
- ~~] Maintain records, inventories of equipment, files and related materials.~~
- ~~] Communicate effectively both in written and verbal form.~~
- ] Read and work from sketches, schematics, and blueprint plans.
- ~~] Prepare various types of metal surfaces for painting.~~
- ~~] Paint metal surfaces using appropriate materials and equipment.~~
- ~~] Use spray paint equipment to paint metal containers, surfaces, objects, and parts.~~
- ~~] Perform basic mathematical calculations.~~
- ~~] Lead and participate the work of others, as assigned.~~

**LICENSE AND CERTIFICATES**

Possession of Structural Steel Welding Certificate is required and Light Gauge Steel, Aluminum, and/or Stainless Steel classifications are desirable. ~~and p~~Possession of a valid California Class C driver's license. Possession of a valid California Class B driver's license with a Passenger (P) Endorsement is desirable. ~~(a Class B permit will be acceptable for the first 90 days of appointment).~~

**OTHER REQUIREMENTS**

At time of appointment, must provide own tools of type and quantity necessary for journey-level welding.

**TRAINING AND EXPERIENCE**

Any combination equivalent to training and experience that could likely provide the required knowledge, skills, and abilities would be qualifying. A typical way to obtain the knowledge, skills, and abilities would be: completion of a welding apprenticeship and five ~~three~~-years of journey level welding and fabrication experience.

**PHYSICAL REQUIREMENTS AND WORKING CONDITIONS**

- ✓ Require mobility of arms to reach and dexterity of hands to grasp and manipulate small objects. ~~Lower body mobility may not be required.~~
- ✓ Require the ability to stand for long periods.
- ✓ Perform work which involves the ~~continuous~~frequent lifting, pushing and/or pulling of objects ~~frequently weighing up to 35 which may approximate 50~~ pounds and may occasionally weigh up to 100 pounds.
- ✓ May be required to work evenings, weekends, and holidays.
- ✓ May be required to work with harsh and toxic substances.
- ✓ May be required to wear protective apparel including goggles, face protectors, aprons, gloves, shoes and oxygen breathing apparatus.
- ✓ May be required to work within enclosed spaces or at heights above ground level.
- ✓ May be required to work around foul odors.
- ✓ May be exposed to extreme noise.
- ✓ May be required to work around moving mechanical parts. May be required to work around electrical current.
- ✓ Is subject to Federal Department of Transportation (DOT) regulations as a safety-sensitive classification.



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1. Leads, organizes, and participates in performing welding jobs for all City departments as requested. Makes welding repairs on City equipment, facilities, and motorized vehicles.
2. Performs other metal fabricating, bending, cutting, shaping, and welding to pipes, vessels, and hard surfaces.
3. Removes, cleans and reinstalls necessary parts to complete welding and/or fabrication repairs.
4. Determines work procedures, may assign duties, assist in solving work problems, enforce City regulations and policies, and promotes work efficiency. Monitors the quality and quantity of the work produced by the welding and fabrication shop.
5. Identifies better methods for meeting service demands and ensures work is performed in a safe and timely manner. Makes hazardous, confined areas safe and workable.
6. Creates work orders for the welding section and generates related purchasing requisitions. Communicates with vendors to review welding material requirements; gathers cost information, creates and maintains vendor records, provides cost analysis and justification for purchase of equipment and/or materials as required
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- ) Types of welds, joints, and welding materials used in welding operations.
- ) Proper preparation of metals and materials for welding.
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- ) Basic mathematics.
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- ) Prepare various types of metal surfaces for painting.
- ) Paint metal surfaces using appropriate materials and equipment.
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