



**JULY 2012**  
**FLSA: NON-EXEMPT**

## **WELDER/FABRICATOR**

*This class specification indicates, in general terms, the type and level of work performed as well as the responsibilities of employees in this classification. The job functions described are not to be interpreted as being all-inclusive to any specific employee.*

### **DEFINITION**

Under general supervision, performs a variety of skilled welding functions in the field and in the shop; maintains, fabricates, modifies and repairs wastewater treatment plant equipment such as engines, compressors, pumps, gears, and mobile equipment using welding techniques; reads blueprints and schematics and draws rough sketches; and repairs and maintains maintenance tools and equipment.

### **SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the Rebuild Supervisor. Exercises no direct supervision of staff.

### **CLASS CHARACTERISTICS**

This is a journey-level class that performs the full range of skilled welding duties required to ensure that the District's wastewater treatment facilities, equipment, and systems are maintained in a safe and effective working condition and provide the highest level of safety. Responsibilities include inspecting and attending to assigned areas in a timely manner and performing a wide variety of tasks in the maintenance and repair of assigned wastewater treatment facilities, equipment, and systems. Incumbents are expected to work independently and exercise judgment and initiative. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

### **EXAMPLES OF ESSENTIAL JOB FUNCTIONS**

The following essential job functions are typical for this classification. Incumbents may not perform all of the listed job functions and/or may be required to perform additional or different job functions from those set forth below to address business needs and changing business practices.

- Plan assigned jobs by reviewing work orders, determining work to be performed; estimate time, materials and equipment for jobs; order materials and generate or design blueprints and schematics for jobs; coordinate work with other departments regarding equipment shutdowns and isolations.
- Maintain, fabricate, modify and repair wastewater treatment plant equipment such as engines, compressors, pumps, gears and mobile equipment by welding equipment in the maintenance shop and in the field; install and assemble equipment after welding is performed.
- Perform brazing, cutting and hard-facing on treatment plant equipment as necessary.
- Read blueprints and schematics and draw sketches to fabricate equipment, tools, brackets, tool boxes and other wastewater treatment plant equipment, tools and safety devices.
- Operate equipment and power tools, including electric welding and gas welding, gas cutting, plasma cutting, and carbon arc cutting equipment, grinders, sanders, and saws.
- Maintain record of work performed and materials used; may drive District vehicles.
- Ensure adherence to safe work practices and procedures.
- Perform related duties as required.

## **QUALIFICATIONS**

### **Knowledge of:**

- Methods and techniques used in the welding and fabrication of wastewater treatment plant equipment, such as MIG, TIG and SMAW.
- Operational characteristics of a variety of tools and equipment including power shear, press brake, band saw and iron worker.
- Principles and procedures of record keeping.
- Basic mathematical principles.
- Occupational hazards and standard safety practices.
- Basic computer software related to work.
- English usage, spelling, vocabulary, grammar, and punctuation.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and District staff.

### **Ability to:**

- Perform a variety of journey level skilled welding functions in the maintenance and upkeep of District equipment.
- Operate a variety of welding equipment in a safe and effective manner.
- Read and interpret blue prints and schematics.
- Complete appropriate records and documents.
- Repair and maintain a variety of equipment and tools.
- Work independently in the absence of supervision.
- Adhere to safe work practices and procedures.
- Understand and follow oral and written instructions.
- Organize own work, set priorities, and meet critical time deadlines.
- Follow department policies and procedures related to assigned duties.
- Use English effectively to communicate in person, over the telephone, and in writing.
- Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

### **Employment Standards:**

Any combination of education and experience that provides the required knowledge, skills, and abilities may be qualifying as determined by OCSD.

1. High school diploma or equivalent supplemented by specialized training in welding and fabricating; AND
2. Two (2) years of experience applying welding skills in the maintenance and repair of mechanical equipment.

### **License or Certificate:**

- Possession of a valid California class C driver's license.

### **Disaster Service Workers:**

All Orange County Sanitation District employees are designated Disaster Service Workers through state law (California Government Code Section 3100-3109). Employment with the Orange County Sanitation District requires the affirmation of a loyalty oath to this effect. Employees are required to complete all related training as assigned, and to return to work as ordered in the event of an emergency.

### **PHYSICAL DEMANDS**

Must possess mobility to work in a shop setting and wastewater treatment plants and related facilities; strength, stamina, and mobility to perform medium to heavy physical work, to work in confined spaces, around machines and to climb and descend ladders, and to operate varied hand and power tools and construction equipment; vision to read printed materials and a computer screen; color vision to read gauges and identify appurtenances; and hearing and speech to communicate in person and over the telephone or radio. The job involves fieldwork requiring frequent walking in operational areas to identify problems or hazards. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate above-mentioned tools and equipment. Positions in this classification bend, stoop, kneel, reach, and climb to perform work and inspect work sites. Employees must possess the ability to lift, carry, push, and pull materials and objects weighing a minimum of 40 pounds, or heavier weights with the use of proper equipment.

### **ENVIRONMENTAL ELEMENTS**

Employees work primarily indoors in a shop setting or in and around wastewater treatment facilities and are exposed to loud noise levels, cold and hot temperatures, vibration, confining workspace, chemicals, mechanical and/or electrical hazards, and hazardous physical substances, odors, and fumes. Employees may interact with upset staff and/or public and private representatives and contractors in interpreting and enforcing departmental policies and procedures.