

## **WELDER**

### **DEFINITION**

Under general supervision, to perform a variety of skilled welding in the maintenance, construction, and repair of bridges, roads, automotive equipment, and construction equipment; to fabricate parts; to design and build equipment; and to do related work as required.

### **DISTINGUISHING CHARACTERISTICS**

This is a specialized class for incumbents assigned to perform skilled welding work.

### **REPORTS TO**

Equipment Maintenance Supervisor.

### **CLASSIFICATIONS DIRECTLY SUPERVISED**

None.

## **EXAMPLES OF DUTIES**

- Performs skilled welding work in the maintenance and repair of bridges, roads, automotive equipment and construction equipment.
- Repairs, hard faces, tempers, and rebuilds tools and road equipment parts such as ripper teeth, dozer corner bits, grader blades, mounts, braces, and hitches.
- Builds up worn parts by electric and gas welding of high carbon steels, cast iron additions, and brass additions.
- Lays-out, fabricates, and installs special metal equipment, such as gear boxes, fuel tanks, water tanks, trailer hitches, extra heavy duty bumpers, and truck beds.
- Performs a variety of special design and lay out work for welding jobs.
- Keeps snow removal equipment running.
- Performs a variety of assistance on public works maintenance and construction jobs.

## **TYPICAL PHYSICAL REQUIREMENTS**

Occasionally sits; frequently stand, walk, stoop, kneel, and crouch; walk on slippery and uneven surfaces; physical ability to lift and carry objects weighing up to 50 pounds unassisted; normal manual dexterity and eye-hand coordination; corrected hearing and vision to normal range; verbal communication; use of equipment including hand and power tools, gas and electrical welding equipment, and telephones.

## **TYPICAL WORKING CONDITIONS**

Work is performed in shop and outside environments; exposure to smoke, gasses, and fumes; exposure to hazards such as moving machine parts and electrical current; continuous contact with staff.

## **DESIRABLE QUALIFICATIONS**

### **Knowledge of:**

- Methods, materials, tools, and equipment used in gas and electrical welding work.
- Properties and characteristics of metal.
- Design and fabrication of parts and equipment.
- Public works maintenance and construction work.
- Safe work practices and Federal and State safety regulations.

### **Ability to:**

- Perform a wide variety of skilled gas and electrical welding work.
- Judge temperatures and the quality of welded joints.
- Design and lay out material from basic sketches.
- Design and fabricate parts and equipment from metal.
- Estimate time and material required for welding jobs.
- Read and interpret specifications, diagrams, schematics, and blueprints.
- Skillfully use a variety of hand and power tools.
- Prepare, clear, concise and accurate records and reports.
- Establish and maintain cooperative working relationships.

**Training and Experience:** Any combination of training and experience which would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Two (2) years of experience in performing skilled gas and electrical welding work.

**Special Requirements:** Possession of a valid and appropriate California Driver's License issued by the Department of Motor Vehicles.

Possession of a Structural Welding Certificated is desirable.