



For the future of every student

## **CLASS TITLE: METAL WORKER-WELDER**

### **BASIC FUNCTION:**

Under the direction of an assigned supervisor, perform a variety of skilled sheet metal tasks and operations involved in the maintenance, repair, alteration and basic construction of District buildings, equipment, and facilities; perform or assist in the performance of skilled and semi-skilled work in other building trade areas as assigned.

### **REPRESENTATIVE DUTIES:**

#### **ESSENTIAL DUTIES:**

Perform skilled sheet metal work related to the maintenance and repair of District facilities, buildings and equipment.

Perform skilled and semi-skilled work in other building trade areas as assigned.

Repair lockers; straighten doors or replace frame; repair or replace bumper boxes, latches, handles, and other equipment; spot paint lockers to match color.

Repair or rebuild gates, fences, furniture, kitchen and playground equipment; cut, shape, assemble and weld steel parts.

Construct or fabricate iron and steel parts.

Repair and maintain iron and steel machines and parts.

Perform repairs on heaters and air conditioners.

Install, repair and troubleshoot various systems and components such as ductwork, plumbing, electrical, pool and heating systems.

Perform electrical and acetylene welding various types of metals.

Weld sections of pipe and pipe fittings.

Perform welding work in conformance with building, health and safety standards.

Receive work orders and determine equipment, supplies and materials needed to perform repairs.

Order and maintain appropriate stock levels of supplies and materials needed for repairs.

Operate, maintain and repair a variety of standard and specialized equipment and tools used in the performance of required duties; drive a vehicle to conduct work.

Maintain various logs and records related to assigned activities.

Lay out work; read, interpret and prepare blueprints, plans, specifications, sketches and diagrams.

**OTHER DUTIES:**

Perform related duties as assigned.

**KNOWLEDGE AND ABILITIES:**

**KNOWLEDGE OF:**

Methods, procedures, equipment and tools of the building trades related to welding.

Alloys acetylene and arc welding, brazing and soldering.

Sheet metal layout and fabrication

Safety rules and regulations applied to the building trades.

Types and working properties of metals.

Operation and maintenance of tools and equipment used in the welding trade.

Technical aspects of field of specialty.

Shop math applicable to welding.

Appropriate safety precautions and procedures.

Basic record-keeping techniques.

Oral and written communication skills.

**ABILITY TO:**

Perform journey-level sheet metal work and skilled and semi-skilled level work in other building trades areas as assigned.

Perform welding jobs in a safe and effective manner.

Read and interpret blueprints, sketches and diagrams.

Prepare accurate time and material estimates for assigned projects.

Maintain accurate work logs and records

Understand and carry out a variety of complex instructions in an independent manner.

Use and operate a variety of hand tools, power tools and equipment used for building maintenance purposes in a safe manner.

Diagnose and resolve basic maintenance and repair problems and take appropriate action.

Identify asbestos-containing building material.

Communicate effectively both orally and in writing.

Work cooperatively with others.

Observe health and safety regulations.

Perform mathematical calculations using addition, subtraction, multiplication, and division.

Work safely and effectively on ladders, scaffolding, rigging, and roofs of varying heights

Establish and maintain cooperative and effective working relationships with others.

Maintain regular and consistent attendance.

**EDUCATION AND EXPERIENCE:**

Any combination equivalent to sufficient experience, training and/or education to demonstrate the knowledge and abilities listed above. Typically, this would be gained through: graduation from high school supplemented by completion of an approved apprenticeship program in the welding trade and three years journey-level welding experience.

**LICENSES AND OTHER REQUIREMENTS:**

Valid California driver's license.

**WORKING CONDITIONS:**

**ENVIRONMENT:**

Indoor and outdoor work environment.

Driving a vehicle to conduct work.  
Noise from equipment operation.  
Regular exposure to fumes, dust and odors.

**PHYSICAL DEMANDS:**

Dexterity of hands and fingers to operate welding tools and equipment.  
Standing for extended periods of time.  
Lifting, carrying, pushing or pulling heavy objects as assigned by position.  
Reaching overhead, above the shoulders and horizontally.  
Bending at the waist, kneeling or crouching.  
Seeing to perform welding duties.  
Climbing ladders.

**HAZARDS:**

Working around and with machinery having moving parts.  
Working at heights.  
Sparks, hot ashes and hot metals from welding and fabrication.

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*Approved by Personnel Commission: 09/19/2007*