

County of Humboldt Job Specification
Fabricator-Technician
Classification 0235



DEFINITION

Under general supervision, fabricates and repairs a wide variety of metal parts using oxyacetylene or electric arc welding apparatus; diagnoses and makes mechanical repairs to vehicles and related equipment; and performs related duties as assigned.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from assigned supervisory or management personnel. Exercises no direct supervision over staff.

CLASS CHARACTERISTICS

This journey-level classification is responsible for independently performing design, fabrication, and installation of metal parts used for the repair of vehicles, equipment, and tools. Positions at this level exercise judgment and initiative in their assigned tasks, 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. This class is distinguished from the Heavy Equipment Technician I/II by the performance of skilled fabrication work in addition to performing mechanical maintenance and repair work.

EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignment of different positions.

- Performs welding work, both in the shop and in the field, to repair a wide variety of vehicles, equipment and tools.
- Performs machine work involving the use of drill press, grinders, power saws, and lathes according to manufacturer procedures; operates a wide variety of hand and power tools and oxyacetylene and electric arc welding equipment.
- Performs preventative maintenance on County equipment, including replacing fluids, making adjustments, and inspecting equipment for safety and wear; makes skilled mechanical repairs to vehicles and equipment.
- Designs, fabricates, installs and rebuilds metal parts and fittings for a wide variety of equipment applications including plow blades, booms, carriers, headboards, buckets, boxes, and tanks.
- Designs, fabricates, repairs, and installs custom and specialized tools, parts, and components such as bushing and bearing drivers, sweeper fittings, crusher chutes, conveyors, deflectors and hoppers, rails, safety guards, and cattle guards; fabricates and installs bumpers, tow bars, ladder racks, toolboxes, and pipe railing.
- Relines and repairs with wear alloys crusher components, dump beds, hinges and buckets, etc.

- Straightens and repairs bent and damaged vehicles, equipment and tools.
- Reads and interprets blueprints, pencil sketches, and other rough drawings; lays out jobs and workplans.
- Maintains tools and equipment in safe operating condition; maintains an inventory of steel and welding supplies and orders supplies.
- Keeps records of work performed; prepares estimates, work orders, timecards, requisitions, vehicle inspection reports, and other written records.
- Performs other related duties as assigned.

The requirements listed below are representative of the knowledge and ability required. Reasonable accommodations may be made to enable qualified individuals with disabilities to perform the essential functions.

QUALIFICATIONS

Knowledge of:

- Use and operation of oxyacetylene and electric arc welding equipment and materials.
- Practices and procedures of shop and field welding.
- Welding properties of various metals and alloys.
- Methods, techniques, parts, tools and materials used in the repair and maintenance of automobiles and equipment.
- Operation and maintenance of a wide variety of hand, power and shop tools related to the work.
- Safety practices, procedures and regulations pertaining to the work.
- Basic mathematical principles
- Applicable federal, state, and local laws, codes, and ordinances relevant to the area(s) of responsibility.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and County staff.
- The structure and content of the English language to effectively perform the work.
- Modern equipment and communication tools used for business functions and program, project, and task coordination, including computers and software programs relevant to work performed.

Ability to:

- Design, fabricate and repair a wide variety of metal parts, tools and equipment.
- Read and interpret blueprints and shop drawings.
- Operate and maintain a variety of hand, power and shop tools and welding equipment.
- Perform mechanical repair and maintenance on a variety of vehicles and equipment.
- Understand and follow oral and written instructions.
- Exercise independent judgment and initiative without close supervision.
- Prepare basic records and reports.
- Estimate materials and equipment required to complete assignments.
- Effectively use computer systems, software applications relevant to work performed, and modern business equipment to perform a variety of work tasks.
- Communicate clearly and concisely, both orally and in writing.

- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

Minimum Qualifications:

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

Equivalent to completion of the twelfth (12th) grade supplemented by specialized training in welding or equipment mechanical repair

and

Two (2) years of journey-level welding experience supplemented by two (2) years of experience in equipment mechanical repair and maintenance.

Licenses and Certifications:

- Must possess a valid US driver's license upon date of application. Must obtain California driver's license following hire date per California DMV regulations.
- Must obtain a Class B driver's license within four (4) months of employment.

PHYSICAL DEMANDS

- Mobility to work in a shop environment and in the field; to sit, stand, and walk on level, uneven, or slippery surfaces; frequently reach, twist, turn, kneel, bend, stoop, squat, crouch, grasp and make repetitive hand movement in the performance of daily duties; to climb and descend ladders; to operate varied hand and power tools and construction equipment, and to operate a motor vehicle and visit various County sites.
- Strength and stamina to perform medium to heavy physical work; to lift, carry, push, and pull parts, materials, weighing up to 100 pounds, in all cases with the use of proper equipment and/or assistance from other staff.
- Vision to inspect and operate equipment; color vision to differentiate between wiring colors.
- Fieldwork requiring frequent walking in operational areas to identify problems or hazards.
- Finger dexterity to operate and repair tools and equipment.
- Wear and use proper Personal Protective Equipment (PPE).

ENVIRONMENTAL CONDITIONS

- Employees work partly in a shop environment; some field work with exposure to loud noise levels, cold and hot temperatures, inclement weather conditions, road hazards, vibration, chemicals, mechanical and/or electrical hazards, hazardous physical substances and fumes, dust and air contaminants.
- Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing departmental policies and procedures.

ADDITIONAL REQUIREMENTS

- Some departments may require pre-employment screening measures before an offer of employment can be made (i.e. background screening, physical examination, etc.).
- This is a DOT (Department of Transportation) covered classification and is subject to random drug and/or alcohol screening.