

County of Humboldt Job Specification
BRIDGE MAINTENANCE WORKER
Classification 0229
FLSA: Non-Exempt



DEFINITION

Under general supervision, performs skilled and semi-skilled work in the repair and construction of bridges, box culverts, guard rails, retaining walls and related structures; operates a variety of vehicles and hand power tools; operates and maintains a variety of motorized construction 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 skilled and semi-skilled maintenance, repair, and construction of County bridges and related road structures. 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 Bridge Maintenance Supervisor in that the latter is the full supervisory classification with responsibilities for the supervision and evaluation of assigned staff.

EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

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

- Performs carpentry work in the construction and repair of bridges, box culverts, guard rails, retaining walls and/or related structures; performs construction of various wooden structures such as storage sheds, utility buildings and/or other structures.
- Performs minor to advanced welding repairs and fabrication.
- Performs rough and finish concrete work including estimation; constructs wooden forms, form panels and bracing for various concrete structures; mixes, pours and finishes concrete.
- Maintains and repairs steel bridges by erecting and securing steel girders, stringers, guard rails and/or other components.
- Performs brush clearance, tree removal, and weed control work.
- Operates construction equipment such as hydraulic cranes, dump trucks, backhoes, flat beds, forklifts, and other vehicles; operates various hand and power tools associated with the construction and maintenance of bridges and related work.
- Performs general maintenance and safety checks on equipment and tools as outlined above, including fueling, greasing and checking the oil, water, lights and/or other appropriate vehicle components.
- Maintains accurate logs and records of work performed and materials and equipment used.

- Performs form stripping, painting and clean-up duties on bridges and related structures.
- Reads and interprets plans and blueprints.
- Maintains accurate logs and records of work performed and materials and equipment used.
- Checks job sites for potential hazards; determines precautions necessary for safe operations.
- Secures equipment upon completion of work.
- Performs related duties as assigned.

QUALIFICATIONS

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.

Knowledge of:

- Techniques, materials, tools and equipment used in the maintenance and repair of bridges, Cattle Guards and related buildings and structures.
- Operation and maintenance of a wide variety of hand and power tools and equipment common in bridge construction and maintenance work.
- Operational characteristics of specialized construction maintenance and the repair of equipment.
- Preventive maintenance and minor repair methods related to equipment.
- Applicable federal, state, and local laws, codes, and ordinances relevant to the area(s) of responsibility.
- Safe work methods and safety regulations pertaining to the work.
- Basic record keeping principles and practices.
- 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:

- Perform bridge construction, modification, maintenance and repair work.
- Operate construction equipment used in the repair and construction of bridges and related structures.
- Troubleshoot maintenance problems and determine materials and supplies required for repair.
- Safely and effectively use and operate hand tools, mechanical equipment, power tools, and light to heavy equipment including hydraulic cranes required for the work.
- Perform routine equipment maintenance.
- Read, interpret, and apply technical information from manuals, drawings, specifications, layouts, blueprints, and schematics.
- Make accurate arithmetic calculations.
- Understand and follow oral and written instructions.
- Maintain accurate logs, records, and basic written records of work performed.
- Understand, interpret, and apply all pertinent laws, codes, regulations, policies and procedures, and standards relevant to work performed.

- 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, using appropriate English grammar and syntax.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

Education and Experience:

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

and

Three (3) years of work experience in industrial or commercial construction including steel and concrete work.

Licenses and Certifications:

- Must possess a valid US driver's license upon date of application. Must obtain California Class C driver's license following hire date per California DMV regulations.
- Must possess a Class B driver's license with an endorsement to drive a tank vehicle within four (4) months of hire.
- Must possess a Crane Operator Certification within twelve (12) months of hire.

PHYSICAL DEMANDS

- Mobility to work 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 operate varied hand and power tools and heavy 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 materials and objects averaging a weight of 100 pounds or heavier weights, in all cases with the use of proper equipment and/or assistance from other staff.
- Vision to inspect and operate equipment.
- 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

- 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

Pre-employment screening measures are required before an offer of employment can be made for this position (i.e. background screening, physical examination, etc.).