

**COUNTY OF SOLANO
PUBLIC WORKS MAINTENANCE WORKER (SENIOR)**

Rev. 03/06
As amended 02/08/96

DEFINITION

Under direction of the Public Works Division within the Department of Resources Management; performs construction and maintenance work on Public Works projects acting primarily as heavy equipment operator; performs related duties as required.

DISTINGUISHING CHARACTERISTICS

This is an advanced level class in the Public Works Maintenance Worker Series. Incumbents are responsible for operating heavy equipment used in construction, repair, and maintenance of roads, flood control channels, and/or bridges. Positions in the class require skill in operating several types of construction equipment. Incumbents may also guide and/or otherwise lead the work of a small crew, but these functions are incidental to tasks performed as a member of the crew. Assignments may be regular and/or rotational to the various units and crews within Transportation. This class is distinguished from Public Works Road Maintenance Worker (Supervising) in that the latter has responsibility for a unit of the Roads Division and the tasks as a crew member are secondary to the supervisory tasks.

EXAMPLES OF DUTIES

Depending on assignment, duties may include but are not limited to the following:

1. Operates a variety of heavy and light construction equipment, turning valves to control air and water output and adjusts hand wheels and depresses pedals to drive machines and control attachments, such as blades, buckets, scrapers and swing booms; checks and performs minor maintenance on equipment.
2. Drains roadside water and clears fallen trees and tree limbs and other road hazards during winter storm months; clears and trims brush, trees, tree limbs and other material from the roadside, channels, channel roads, bridges or levees; operates shears, chain saws, clipper, and a variety of light and heavy mowers; sweeps intersections clear of debris and loose gravel. May participate in vegetation management using herbicides and rodent control.
3. Stencils traffic lettering and speed limits on roadway using stencils and spray paint equipment and maintains a stenciling log; helps stripe roads by finding the center of the roadway and marking the center using "cat pawing" techniques or by operating the lead car for the striper and filling the striper with paint and reflective beads.
4. Operates a dump truck and attached equipment to haul asphalt or other materials and spread material on roadways for chip sealing or dust coating; installs guardrails along County roads.

EXAMPLES OF DUTIES (Continued)

5. Installs and repairs road signs and sign posts at proper height and angle and regularly inspects all signs on an assigned route; washes all signs using a power washer as needed and maintains a traffic sign log book; fabricates road signs using various materials, color and lettering in accordance with highway regulations and current needs; operates a sign baking machine.
6. Assists in permanent patch, pothole patch, chip seal, dust coat, blade patch, crack sealing, and pavement removal and replacement on various road projects; applies oils, aggregates, and blacktop to roadways; uses level lute, and various manual and power rollers to spread, level and compact road materials; installs pipe culverts under roadways; may keep track of bottom dumps of road aggregates during road reconstruction and use calculator to compute amounts delivered.
7. Reconstructs damaged bridges, channels or levee and places rip rap; repairs access road washouts, fences, and access gates on wood and chain link fences by using small hand tools and welders as needed; repairs, installs or replaces culverts using backhoes and a variety of power equipment, replaces water channel flap gates.
8. May expedite and guide the work of a small crew, explaining tasks to new workers; may lead a small crew by making work assignments to crew, completing time and work production records during seasonal staffing adjustments and/or on special projects.

QUALIFICATION GUIDELINES

Education and/or Experience

Extensive construction and maintenance experience which demonstrates possession of and competency in requisite knowledge, skills and abilities. Typical qualifying experience would be:

Two years as a journey level public works maintenance worker, which includes familiarity with the operations of a grader, backhoe and/or loader.

Knowledge/Skills/Abilities

Considerable knowledge of methods, techniques and materials used in road work such as chip sealing, patching, dust coating and oiling activity; operation of equipment and tools commonly used in road construction, traffic signing and pavement marking, and channel/bridge maintenance; construction signing for safety of motorist and workers; procedures used in road repair and reconstruction; motor vehicle code as it relates to operation of construction

Knowledge/Skills/Abilities (Continued)

equipment; traffic sign construction/fabrication; traffic sign regulations and requirements; tree trimming methods and techniques; pavement marking and reflector button regulations and methods techniques; guardrail installation methods; use of herbicides and maintenance of spray equipment; carpentry tools and methods as they relate to concrete forms and fences; methods and techniques of lifting and cribbing bridges; pouring and finishing concrete; materials, compaction methods and placement of material for rip rapping, backfill, and run off protection around bridges, channel slopes, and levee slopes; safe work methods around heavy equipment in traffic, canals and streambeds; safe and efficient use of construction equipment and tools.

Skill in operating motor grader, backhoe, dump truck, crane and other such power construction equipment.

Ability to operate a variety of construction equipment in a safe and efficient manner; service and make minor adjustments and repairs to construction equipment; follow and understand verbal and written directions; detect uneven surfaces and level them out; establish and maintain cooperative working relationships; demonstrate tact and diplomacy in dealing with the people; work safely around vehicular traffic; proofread and/or edit for errors in spelling, grammar and punctuation on road signs; read and understand highway manuals regarding traffic signing and marking; operate hand and power pruning tools, power washers and spray painting and equipment; work at heights; make routine arithmetical calculations; determine the center of a roadway; determine proper sign placement and alignment; work around and mix paints, solvents, and glues; weld and construct fences and concrete forms; work with concrete; maintain balance in and around streams or working at 50-75 feet heights; expedite and guide the work of others.

SPECIAL REQUIREMENTS

Possession of a valid Class A California Driver's License with an X endorsement is required.

| Incumbents and candidates applying for positions in this class are subject to drug and alcohol testing as required under the Federal Omnibus Transportation Employee Testing Act of 1991. Testing includes post-accident and pre-employment, as well as random and reasonable suspicion testing as required by law.

Incumbents must be able to perform heavy manual labor associated with construction and maintenance tasks involving the full range of body movements involving reaching, bending, grasping and climbing, and may require lifting objects weighing between 50-100 pounds.

SPECIAL REQUIREMENTS

Incumbents must work outdoors in all type of weather conditions; may be required to work outside normal business hours.

Incumbents may be required to work with hot paving materials; (e.g., asphalt and/or work in high water streams, rivers and channels).

Director of Human Resources

CSC Date: March 8, 2006