



Bridge Carpenter

Class code: 438

Employee Group: SEIU

Salary Range: 17

I. Position Summary

Under general supervision, to build bridges and other structures; to inspect and note bridge defects; repair and replace bridges, forms and rails; and to perform general bridge maintenance work.

II. Distinguishing Features

This is the journey level class in the series. It is distinguished from the Senior Bridge Carpenter in that incumbents work within a framework of established procedures and are not expected to possess the same degree of technical or functional expertise. Incumbents are expected to perform a full range of duties with only occasional instruction or assistance. Work is normally reviewed only on completion and for overall results. Assigned duties require the exercise of judgment in applying a full range of technical and operational skills and knowledge.

III. Examples of Essential Position Duties

- Builds new bridges; modifies, widens and repairs existing wood and concrete bridges.
- Inspects wood members and note defects; removes rotten and broken parts of bridges including wood, caps, decking and posts.
- Prepares, maintains and submits a variety of records and reports; prepares inspection reports including findings, defects noted, and needed repairs; completes time entry and production reports.
- Constructs storm drain and culvert boxes.
- Installs rock retaining walls and gabions in stream beds.
- Demolishes existing wood structures and replaces with new concrete bridge.
- Performs regular bridge maintenance; cleans drains, removes debris from decks and sidewalks, expansion joints, cocker bearing and caps.
- Measures and builds concrete forms; tie re-bar.
- Pours concrete; constructs concrete block restrooms for parks.
- Operates heavy equipment including dump trucks, hydraulic jacks, crane and backhoe to carry and lift new bridge structures into place, dig ditches, delivers building materials and remove demolished structural materials.
- Patches and repairs damaged concrete on bridges and culvert boxes.
- Breaks up and cuts concrete using paving breaker and concrete saw.
- Paints wooden rails and posts.
- Repairs, replaces and installs guard rails.
- Removes flood debris, brush, trees and driftwood from around, on and under bridges.
- May serve as crew leader in absence of Senior Bridge Carpenter.
- May flag traffic at work sites.
- May operate small equipment or tools on a limited basis.
- Adheres to best management procedures that pertain to water quality and threatened and endangered species protection.

- Acts as a mentor and trainer for other department personnel.
- Adheres to County and departmental policies and procedures as well as safe work practices, policies and procedures.
- Develops and maintains effective working relationships with other staff, public officials, the general public and representatives of other agencies.
- Attends and participates in required trainings.
- Has regular and reliable attendance.
- Overtime may be required.
- Performs other related duties as assigned.

IV. Knowledge, Skills and Abilities

Requires extensive knowledge of concrete and heavy timber construction; knowledge of basic construction and maintenance techniques. Ability to use and operate a variety of heavy and small construction equipment, machines and hand tools including drills, saws, backhoe, compressor, generator, trowel, float, screed, pump, dump and boom trucks, paint gun, jackhammer, acetylene torch and stud and nail guns. Ability to read and understand blueprints and plans; inspect bridges for compliance with safety standards and operational requirements; plan and develop cost estimates and bids; instruct and provide work direction to others; prepare and maintain accurate records and reports; establish and maintain cooperative working relationships with those contacted in the course of work; use basic arithmetic to calculate square footage for concrete forms; prioritize work and meet established deadlines; and interpret and explain department policies and procedures as necessary.

V. Minimum Requirements (*Performance of the essential duties of this position includes the following requirements, physical demands and/or working conditions*)

Education and Experience

- A combination of education and experience equivalent to completion of the twelfth grade AND two years of related work experience; OR
- Any combination of education and experience which provides the applicant with the desired skills, knowledge, and ability required to perform the job.

Licenses, Certificates and Other

Possession of a current, Oregon Class "A" Commercial Driver's License with an acceptable driving record.

Physical Demands (*Performance of the essential duties of this position includes the following physical demands and/or working conditions*)

Requires the ability to exert a considerable amount of force frequently to lift, carry, push, pull, or otherwise move objects and to stoop, crouch, climb and lift in performance of manual labor; operate a variety of tools, equipment and vehicles used in performance of daily tasks; ability to perform assigned work in a safe manner; may be subject to uncomfortable working conditions including exposure to dust, noise, heat, cold or moisture.

Working Environments

Work duties involve exposure to inclement weather and may be performed on scaffolding, in high places or confined spaces, above water or while hanging from a sling. Positions require frequent walking, climbing, bending, kneeling and the ability to push, lift, pull and carry up to 100 pounds.

VI. Additional Information

This classification description is not intended to be an exhaustive list of duties, knowledge, skills, abilities, or requirements, as any one position in this classification may be assigned some or all of these duties, in addition to other duties not explicitly listed here. The various duties, responsibilities and/or assignments of this position may be unevenly balanced and change from time to time based upon matters such as, but not limited to, variations in the shift, work demands, seasons, service levels and management's decisions on how to best allocate department resources. Any shift, emphasis or rebalancing of these assigned duties, responsibilities and/or assignments does not constitute a change in the job classification.

Revised: 11/12