

Missouri Department of Transportation Job Description

Job Title: Senior Bridge Maintenance Worker

Title Code: R01107

Salary Grade: 5

Exemption Status: Non-Exempt

Supervisory Responsibilities: None

District/Division: Districts - Maintenance

Effective Date: 06-15-2025

Replaces (Effective Date): 12-16-2024

General Summary

The senior bridge maintenance worker guides and performs bridge maintenance activities including painting and routine and emergency repairs of bridges. Responsibilities are performed under moderate supervision.

Minimum/Required Qualifications

- High School Diploma or GED/HiSET
- Valid Class A Commercial Driver's License with tanker endorsement, no air brake restriction, and interstate status (either Excepted Interstate [EI] or Non-Excepted Interstate [NI]).
- Employee required to pass a cardiopulmonary function test yearly, attend training on the use of respirators, and pass a respirator fit test every six months.
- Requires overhead (4G) welding certification for 3/4" thickness.
- Licensed as a Lead Abatement Worker in the State of Missouri.
- Four years of experience in performing roadway, roadside, bridge, equipment or sign maintenance, pavement marking, or utility location responsibilities.
- Successful completion of a work simulation examination and a medical-physical examination.

Special Working Conditions/Job Characteristics

- Job requires significant physical stamina and endurance.
- Job requires exposure to physical hazards, health and safety risks, and/or adverse or otherwise undesirable characteristics in the environment.
- Job may require operation of vehicles to plow snow and spread ice control materials.

Examples of Work

1. Performs bridge repair operations, including installing bridgework platforms; welding bridge members; removing, mixing, placing, and finishing concrete; designing and constructing falsework; fabricating and heat strengthening steel and related materials; resetting bridge bearings; repairing expansion devices; replacing timber piling and caps; erecting structural steel beams; determining layout, drilling and connecting steel replacement members; and securing bridge decks.
2. Performs bridge painting activities such as painting of structural steel bridges, cleaning and preparing bridge surfaces for painting, mixing and applying paint using conventional or airless paint sprayers and related equipment, hanging scaffolding and safety lines, and setting up and constructing related structures to perform painting operations and contain paint residue.
3. Sets up traffic control devices such as signs, cones, flags and arrow boards; performs flagging responsibilities for traffic moving through work zones.
4. Operates vehicles and equipment to transport crew to work site and for traffic control; cleans, repairs, and performs preventive maintenance to vehicles and equipment or directs others in these tasks.
5. Organizes or directs the organization of supplies, materials, equipment and tools in preparation of assigned work; documents and records equipment and materials usage.
6. Assists other bridge maintenance crews as needed and assists routine maintenance with snow removal.
7. May perform lead worker responsibilities, which may include providing general instruction, assigning and reviewing work, coaching and training, providing guidance and instruction in the proper and most efficient methods of accomplishing tasks, and providing input to the direct supervisor on staffing decisions and performance management.
8. Performs other responsibilities as required or assigned.