



TRANSPORTATION MAINTENANCE SPECIALIST 2

4152

GENERAL DESCRIPTION OF CLASS

The TRANSPORTATION MAINTENANCE SPECIALIST 2 repairs, renovates, and reconstructs roadbeds, surfaces, structures, and facilities that are part of the State's transportation system. Work includes equipment operation, skilled and manual labor.

DISTINGUISHING FEATURES

This is the second of a two level series. The Transportation Maintenance Specialist 2 is the journey-level maintenance specialist, required to do a variety of maintenance activities, including the proficient operation of highway maintenance equipment. In general, employees working in the Transportation Maintenance Specialist 2 class have high public exposure, are often the first on the scene of accidents and emergencies, and will provide traffic control and may provide first aid. It is distinguished from the Transportation Maintenance Specialist 1 by the lack of landscape maintenance and/or entry level transportation maintenance work done under close supervision.

DUTIES AND RESPONSIBILITIES

The duties listed below are not inclusive but characteristic of the type and level of work associated with this class series. Individual positions may do any combination of the duties listed below as well as other related duties.

1. Roadway/Highway Maintenance

Maintain, repair and rebuild roadway surfaces, sub-layers or shoulders on roadway/highway section areas. Dig and clean ditches; clear brush or trees; remove land and snow slides; clear roads of hazardous materials; clean catch basins and related clogged drainage systems. Mow grass in median and right-of-way areas. Repair or replace fences, guardrails and roadway delineators. Repair bike paths. Set up traffic control signs and detours. Pick up and dispose of debris and litter, including animal carcasses, found on the roadway and in adjacent right-of-ways. Respond to weather-related emergencies including winter operations (e.g., sanding, snow removal, de-icing). Oversee the work of contractors hired to do maintenance and improvement projects. Work with and oversee the work of Correctional inmates and community service individuals.

2. Bridge Maintenance

Maintain, repair, reconstruct and strengthen wooden, steel and concrete bridges, box culverts and related structures on state highway systems. Read and interpret plans and specifications on project plans. Weld and fabricate. Frame out forms, pour and finish concrete. Sand blast and paint. Replace bridge elements (e.g., pilings, bearings, and caps). Replace culverts. Repair guardrails. Pressure wash tunnels. Maintain fish ladders and tidal gates, buildings and facilities, and concrete sections on state highways. Assist in weather-related emergencies.

3. Sign Maintenance

Maintain, install and replace signs and sign posts. Use Manual on Uniform Traffic Control Devices, construction manuals, straight-line charts, drawings, letters and prints to ensure proper placement of new installations and changes in existing signs. Inspect signs for repair or replacement. Shoot

elevations with transit and/or level to decide sign placement. Order signs, parts/supplies and sign support stock. Record work performed and materials used. Inventory signs and equipment. Repair and install breakaway sign supports. Cut brush or trees. Set traffic control.

4. Drawbridge Maintenance

Operate electrically controlled drawbridges to allow passage for marine vessels. Maintain the mechanical and electrical elements and components of bridges (e.g., cables, navigation light). Maintain bridge structures (e.g., painting, welding, carpentry, pressure washing). Maintain turf areas. Monitor and operate marine radio channels. Install and maintain delineators, milepost markers and mail box posts along state highways. Respond to emergency lift situations including handling backup process and equipment.

5. Special Operations (seasonal)

Winter Operations: Respond to weather-related emergencies: assess if they require snow removal, de-icing or sanding and do those activities.

Striping/Traffic Line Operations: Apply, maintain or replace roadway/highway striping or legends. Remove existing paint using sand blasting or grinding equipment. Read and use plans and layouts for projects. Operate and maintain striping equipment and vehicles. Work with hazardous materials such as epoxy/paints, water based paints, thermo-plastics, thinners, acetone, etc.

Spray Operations: Apply pesticide/herbicide sprays on vegetation along state right-of-ways, medians, and rest areas. Review nature of landscape material, adjacent environment and decide types and quantity mixes of pesticide and herbicide.

Paving Operations: Repair, replace or maintain roadway surfaces, sub-layers or shoulders on state highways or facilities. Perform tonnage calculations and estimate cost of repairs.

RELATIONSHIPS WITH OTHERS

Employees in this series have frequent contact with the traveling public to provide information, respond to inquiries, and solve problems as they arise. Employees are subject to high public exposure because they are often the first on the scene of accidents and emergencies. They control traffic and may give first aid. Employees have frequent contact, in person or by radio, with other maintenance units in the district, region, and other government jurisdictions to coordinate projects, materials, and equipment. Employees occasionally contact material suppliers and equipment repair shops to exchange information, pick up supplies, and schedule equipment maintenance.

SUPERVISION RECEIVED

Employees in this series receive general supervision from a maintenance coordinator or supervisor who assigns work daily and reviews work upon completion for quality, quantity, and adherence to agency standards. Employees work independently while in the field.

Guidelines used by employees in this class include equipment operation and service manuals, safety rules and regulations, basic first aid, manufacturers' instructions for use of chemicals, manual on uniform traffic control devices, maintenance signing guidelines, emergency response guidebook, and motor vehicles laws.

GENERAL INFORMATION

Positions in this classification are located throughout the State and require prolonged and strenuous physical labor, in all weather conditions, with exposure to heavy traffic, spills, slides, ice, working at heights, and around heavy machinery. Specific duties vary depending on season, region, and type of crew to which each individual position is assigned. All positions in this series require agility in stooping, bending, lifting over 50 pounds, sitting, standing; finger, hand, arm, shoulder, foot, and leg dexterity.

KNOWLEDGE AND SKILLS (KS)**Knowledge:**

General knowledge of safety practices and precautions in transportation maintenance work.
General knowledge of proper traffic control procedures including highway signing, flagging, and coning to perform work safely and efficiently on busy highways under quantity production schedules.
General knowledge of emergency procedures for directing traffic due to motor vehicle accidents, spills, and slides including lane closures and detours.
General knowledge of operation, maintenance, and repair of a wide variety of transportation maintenance equipment, including proper methods and procedures for the type of material on which and activity in which the equipment is being operated.
General knowledge of methods and materials used in repairing, renovating, and reconstructing highway roadbeds, surfaces, structures, and facilities, including asphalt, concrete, steel, and wood work.

Skills:

Skill in operation and maintenance of a variety of highway maintenance equipment.
Skill in working cooperatively with a wide variety of people.
Skill in following oral and written instructions and keeping written records of work.
Skill in leading other workers.

Some positions require:

General knowledge of materials, methods, and equipment used in installation, renovation, and repair of highway signs and related structures.
General knowledge of State and Federal highway signing rules, regulations, and procedures.

Special Qualifications:

Some positions may require welding certification to weld structures and other specialized bridge maintenance operations.
Some positions must be able to obtain a limited maintenance electrical license within 6 months of hire.
All positions will require a valid driver's license.
Must be able to obtain a Commercial Driver's License - Class A within six months of hire.

NOTE: The KNOWLEDGE and SKILLS are required for initial consideration. Some duties performed by positions in this class may require different KS's. No attempt is made to describe every KS required for **all** positions in this class. Additional KS requirements will be explained on the recruiting announcement.

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