
TEST INFORMATION GUIDE

This test information guide provides a summary of concepts that are tested on the written examination for the **Highway Maintainer** job. This information can be reviewed in combination with the class specification and examination announcement to assist you in preparing for the examination.

I. TRUCK AND EQUIPMENT MAINTENANCE (10 Questions)

Employees in this job are responsible for keeping their vehicles and equipment clean, safe and in good working order. Therefore, employees in this position must have knowledge of maintenance practices related to vehicles and equipment. Test question topics include:

- Routine engine and vehicle preventive maintenance;
- Troubleshooting equipment problems;
- Knowledge of engine and vehicle systems and components.

II. TOOL USAGE (10 Questions)

Employees in this job must use various tools of the trade. The questions in this section test your knowledge of the proper use of various gasoline-powered, electric-powered and hand-powered tools used in the performance of Highway Maintainer job duties. Test question topics include:

- Identify a tool from a picture or description and its appropriate usage;
- Distinguish which tool would be most appropriate to complete a given task;
- Recognize the proper use of common tools or hardware.

III. MECHANICAL COMPREHENSION (8 Questions)

Employees in this job must have mechanical comprehension skills in order to safely operate equipment and effectively perform job tasks. This section tests your knowledge of the relationship of physical forces and mechanical elements in practical situations.

- Application of elementary physics principles to work situations;
- Function and operation of simple mechanical systems such as clamps, pulleys and gears.

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IV. SAFETY PRACTICES

(18 Questions)

Due to the nature of this job, Highway Maintainers are often exposed to potentially hazardous situations. Therefore, it is necessary for employees in this position to be especially aware of safety practices that may be used to prevent or decrease the possibility of injury. Test question topics include:

- Injury reporting;
- Responding to emergency situations;
- Responsible use of chemicals, equipment, tools, and vehicles;
- Issues related to public or workplace safety.

V. ROAD CONSTRUCTION, MAINTENANCE, AND REPAIR

(10 Questions)

Employees in this job perform construction, maintenance and repair of roads and bridges, and also perform mowing and tree/brush trimming and removal along roadways, and operate snow plows during snow and ice conditions. The questions in this section test your knowledge of various roadside construction, maintenance and repair tasks. Test question topics include:

- Use of graders;
- Back blading;
- Traffic control;
- Use of asphalt and concrete;
- Tree trimming;
- Snowplowing/ice removal operations.

VI. DEFENSIVE DRIVING

(14 Questions)

Employees in this job must operate vehicles in a safe and lawful manner. This exam section tests your knowledge of the "rules of the road" in the State of Illinois. Test question topics include:

- Responsibilities of drivers;
- Recognition of hazards and appropriate response;
- Prevention of and response to dangerous situations;
- Safe driving techniques.