

Activity 160 Bridge Maintenance

Description

Activity 160 involves performing routine, preventive maintenance to assure proper operation of, or to control or prevent further structural deterioration on, a bridge, major culvert, tunnel, or other structure classed as a bridge. This work can be classified as general upkeep.

General Instructions

A major culvert is a culvert, pipe, box culvert, or other drainage structure that is 6 feet or more in width or diameter.

Refer to Activity 121 for cleaning culverts, box culverts, or other drainage structures that are less than 6 feet (1.8 meters) in width or diameter.

Refer to Activity 123 for repairing culverts, box culverts, or other drainage structures that are less than 6 feet (1.8 meters) in width or diameter.

Refer to Activity 162 for repairs to bridges and major structures.

Refer to Activity 165 for work related to operation of moveable bridges.

Refer to Activity 305 when assisting with elements of the bridge inspection program (including diving or sounding work).

Refer to discussion in the preceding General Instructions section in this section of this Guide.

Develop a schedule for and perform all needed or identified routine, preventive maintenance activities. As discussed in the General Instructions, use information from the Bridge Inspection Reports to help identify other needed work and the relative priority of all work.

Refer to the:

- “As Constructed” plans for each structure, including incorporated materials.
- *Oregon Standard Specifications for Construction.*
- *Qualified Products List.*

Controlling Erosion, Sedimentation, and Pollutants or Contaminants

Plan and implement methods to control erosion, sedimentation, and pollutants or contaminants, including those discussed in the Control of Erosion, Sedimentation, and Pollutants or Contaminants section of this Guide and the ODOT *Routine Road Maintenance Water Quality and Habitat Guide Best Management Practices.*

As appropriate, implement and maintain devices and processes including those described in the *Field Manual for Erosion and Sediment Control*.

Also implement appropriate practices to control or contain waste material from the maintenance operation, from cleanup of tools or equipment, or from other operations.

Temporary Protection and Direction of Traffic

Plan, implement, and maintain traffic control as addressed in the *Traffic Control on State Highways for Short Term Work Zones* handbook.

Equipment

Select equipment suitable for the work and situation.

Materials

Select materials needed to perform the work. Use products from the ODOT *Qualified Products List* or seek Bridge Maintenance Engineer approval to try new products.

Work Method

1. Identify the work to be performed and obtain needed resources.
2. Implement appropriate traffic control.
3. Implement appropriate methods to control erosion, sedimentation, pollutants or contaminants, and removed or waste products.
4. Perform the maintenance operation.
5. Remove traffic control.
6. Dispose of waste or excess material at an appropriate location.

Measurement of Accomplishment, Expenditure Account, and Charge Activity

If another entity, such as the States of Washington or Idaho for structures over the Columbia or Snake Rivers, must be billed for some incurred costs, record information as required for the agreement related to the structure.

Measurement is number of worker hours involved. Expenditure account type is Bridge EA (use a sub-job of 020) or Highway EA when performing work on many structures daily. Designate a sub-job of 800, or 820 for a bridge crew, if the work involves bicycle path facilities.

- Do not charge any costs to TEAMS Activity 160.
- Charge TEAMS Activity 346 for removing brush or trees near a structure or in the waterway underneath to maintain channel flow, provide access to the structure, and to prevent structural deterioration.
- Charge TEAMS Activity 347 for removing drift and ice floes from bridge supports and waterways to prevent structural damage.
- Charge TEAMS Activity 358 for performing routine bridge or waterway maintenance to preserve or restore fish passage.
- Charge TEAMS Activity 615 for cleaning debris from caps or sills to prevent structural deterioration.

- Charge TEAMS Activity 616 for cleaning concrete superstructure members to prevent structural deterioration.
- Charge TEAMS Activity 617 for cleaning steel superstructure members to prevent structural deterioration.
- Charge TEAMS Activity 618 for sweeping, removing debris from, and spot patching the concrete deck to prevent structural deterioration.
- Charge TEAMS Activity 619 for cleaning wood, steel, or concrete curbs, rail, or felloe guards to preserve their proper function.
- Charge TEAMS Activity 620 for cleaning concrete piling and posts to prevent structural deterioration.
- Charge TEAMS Activity 621 for cleaning steel piling and posts to prevent structural deterioration.
- Charge TEAMS Activity 622 for spot patching or performing other minor maintenance at the abutment or bridge end panel.
- Charge TEAMS Activity 623 for cleaning deck joints to preserve the proper function and range of movement of each joint.
- Charge TEAMS Activity 624 for cleaning bearings and seats to ensure the proper movement of structural members.
- Charge TEAMS Activity 625 for cleaning dirt and debris from a structure's storm water drainage system to preserve or restore the proper function.
- Charge TEAMS Activity 626 for cleaning dirt and debris from a major culvert to preserve or restore its proper function.