

Activity 160 Bridge Maintenance

Description

Activity 160 involves performing routine, preventive maintenance to ensure 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 Information

Refer to discussion in the General Instructions section preceding Activity 160 in this section of the *Maintenance Guide* for additional information including environmental and traffic control recommendations and other important considerations.

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 in width or diameter.

Refer to Activity 123 for repairing culverts, box culverts, or other drainage structures that are less than 6 feet 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).

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*.

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 Preservation 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, sediment, 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 must be billed for some incurred costs, record information as required for the agreement related to the structure, for example the states of Washington or Idaho for structures over the Columbia or Snake Rivers.

Measurement is number of worker hours involved. Expenditure account type is Bridge EA or Highway EA when performing work on many structures daily; use a sub job appropriate for the crew performing the work.

Use a sub job within the 800 series if the work involves bicycle path facilities. These sub jobs are assigned by the Maintenance Management System (MMS) Unit based on the type of work performed.

- Charge work to Activity 160 in MMS
- Use the following activities in TEAMS as applicable:
 - Charge 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 Activity 347 for removing drift and ice floes from bridge supports and waterways to prevent structural damage.
 - Charge Activity 615 for cleaning debris from caps or sills to prevent structural deterioration.
 - Charge Activity 616 for cleaning concrete superstructure members to prevent structural deterioration.
 - Charge Activity 617 for cleaning steel superstructure members to prevent structural deterioration.
 - Charge Activity 618 for sweeping, removing debris from, and spot patching the concrete deck to prevent structural deterioration.
 - Charge Activity 619 for cleaning wood, steel, or concrete curbs, rail, or felloe guards to preserve their proper function.
 - Charge Activity 620 for cleaning concrete piling and posts to prevent structural deterioration.
 - Charge Activity 621 for cleaning steel piling and posts to prevent structural deterioration.
 - Charge Activity 622 for spot patching or performing other minor maintenance at the abutment or bridge end panel.

- Charge Activity 623 for cleaning deck joints to preserve the proper function and range of movement of each joint.
- Charge Activity 624 for cleaning bearings and seats to ensure the proper movement of structural members.
- Charge Activity 625 for cleaning dirt and debris from a structure's storm water drainage system to preserve or restore the proper function.
- Charge Activity 626 for cleaning dirt and debris from a major culvert to preserve or restore its proper function.