



NHI Course No.130055

Safety Inspection of In-Service Bridges

Objectives

Upon completion of the course, participants will be able to:

- Evaluate a variety of bridges and determine the critical areas for inspection including common points of deterioration and/or distress.
- Review as-built plans and previous inspection reports and, based on this review, plan and conduct an effective safety inspection for common bridge types and bridge-length culverts.
- Recognize the various deficiencies that can exist on a bridge and discuss their causes.
- Provide documentation of defects in various materials and of bridge configurations.
- Assign NBIS component ratings or element level condition states.
- Recognize the need to inspect the underwater portions of bridge structures; describe the types of deficiencies to look for (e.g. scour); determine when an inspection is necessary; and identify the procedures and types of equipment available and the advantages and limitations of each.
- Evaluate the severity of material deterioration and member distress and assign ratings according to coding guidance as developed by FHWA and/or the State highway agency. Determine when it is necessary to close the bridge (or recommend closure) because of imminent danger.
- Recognize when further inspection, such as Non-Destructive Testing (NDT), is required beyond the usual visual and hand tool inspection and decide what type of further inspection should be conducted.
- Satisfy the NBIS requirements for individuals in charge of the organizational unit delegated bridge inspection responsibilities and for individuals in charge of a bridge inspection team.
- Successfully complete written examinations on the material presented.
- Discuss the equipment requirements for a complete inspection and demonstrate proficiency.
- Recognize the maintenance and repair activities needed to preserve the structural integrity of the bridges.

- Course Number: NHI 130055
- Course Title: Safety Inspection of In-Service Bridges
- Duration: 10 Days
- Class Size: 30 - 35 Persons
- Location: Jeddah, KSA
- Date: 4 - 15 December, 2010

Description

This course is based on the new "Bridge Inspector's Reference Manual", providing training on the safety inspection of in-service highway bridges. Satisfactory completion of this course will fulfill the training requirements of the National Bridge Inspection Standards (NBIS) for a comprehensive training course.

Mid-term and final examinations based on course content will be administered to participants. All engineers should pass their exams to be certified.

Target Audience

Transportation, municipality engineers and employees involved in inspecting bridges or in charge of a bridge inspection unit.

Baker



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