

UNDERWATER BRIDGE INSPECTION Instructor-Led

The latest update to the National Bridge Inspection Standards (NBIS), which became effective January 13, 2005, requires bridge inspection training for all divers conducting underwater inspections. One method of meeting this requirement is the completion of an FHWA approved underwater diver bridge inspection training course. Satisfactory completion of this course will fulfill the NBIS requirement. A final examination based on course content will be administered to participants.

This course also provides an overview of diving operations that will be useful to agency personnel responsible for managing underwater bridge inspections.

Course topics include methods of underwater inspection, underwater material deterioration mechanisms and inspection techniques, scour inspection techniques, and underwater element level rating.

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

- Explain the need for and benefits of inspecting the underwater portions of bridge structures
- Describe typical underwater defects and deterioration, and identify conditions contributing to rates of deterioration
- Identify the types of inspection equipment available and the advantages and limitations of each
- Identify procedures for planning and performing thorough and safe underwater bridge inspections
- Assign component and element level condition ratings for underwater components in accordance with the National Bridge Inspection Standards (NBIS) and agency requirements

TARGET AUDIENCE: Experienced divers who require a knowledge base of underwater bridge inspection and evaluation techniques in order to meet the educational requirements of the NBIS for underwater bridge inspection training. The course will also be of interest to bridge inspection program managers, structural engineers, and non-diver bridge inspectors from the public and private sector.

LENGTH: 3 days

CEU: 1.8 Units

FEE: \$400 per participant

CLASS SIZE: Minimum: 20; Maximum: 30

REGISTRATION: To host a session of an NHI course, complete the "On-Site Course Request" form (FHWA 1530) and submit to NHI via <http://www.nhi.fhwa.dot.gov>. After the form is received, an instructor will contact the local coordinator to schedule the session. Requested dates may be shown on the form; however, scheduling is subject to instructor availability. All confirmed sessions are listed on the NHI Web site by date and course number.

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Need more bridge inspection courses? NHI offers a number of bridge inspection courses, including the following:



FHWA-NHI-130053 Bridge Inspector Refresher Training
FHWA-NHI-130054 Engineering Concepts for Bridge Inspectors
FHWA-NHI-130055 Safety Inspection of In-Service Bridges

Visit our Web site at www.nhi.fhwa.dot.gov for a complete listing.



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