



## COURSE NUMBER

FHWA-NHI-130099



## COURSE TITLE

### Bridge Inspection Non-Destructive Evaluation Showcase (BINS)

The FHWA Office of Infrastructure R&D, in cooperation with the FHWA Office of Bridge Technology and the FHWA Resource Center, has identified that the need exists within state Departments of Transportation (DOT) for training on selected non-destructive evaluation (NDE) methods that can be used to assess existing conditions in highway bridge structures during routine inspections, supplementing visual inspections.

The Bridge Inspectors NDE Showcase (BINS) is an informal, one-day training course which provides bridge inspectors the ability to see the latest in commercially available nondestructive tools and systems for use on bridges. The workshop is presented through a series of lectures, instructional videos, and live demonstrations showing basic operation of the equipment.

This seminar is designed to provide bridge inspection staff the opportunity to view efficient and effective inspection tools and techniques, with the ultimate goal of achieving safer bridges through more reliable bridge inspections. The following technical inspection tools are featured: Eddy Current, Ultrasonic, Infrared Thermography, Impact Echo, and Ground Penetrating Radar.

Course instructors are qualified engineers experienced in using NDE equipment on bridges.

## OUTCOMES

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

- Summarize and demonstrate the basic principles and general operational procedures for five (5) hand-held nondestructive testing (NDT) systems used for inspection of bridge components, including:
  - Eddy Current Testing
  - Ultrasonic Testing
  - Infrared Thermography
  - Impact Echo (IE)
  - Ground Penetrating Radar (GPR)

## TARGET AUDIENCE

The primary audience for the Bridge Inspection Non-Destructive Evaluation Showcase (BINS) course is Federal, State, and local highway bridge inspectors, consultants, and bridge inspection staff.

**TRAINING LEVEL:** Basic

**FEE:** 2013: \$13000 Per Course; 2014: N/A

**LENGTH:** 1 DAYS (CEU: .6 UNITS)

**CLASS SIZE:** MINIMUM: 1; MAXIMUM: 100

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