

**COURSE NUMBER**

FHWA-NHI-130111

**COURSE TITLE****Nondestructive Evaluation Fundamentals for Bridge Inspection (Web-based)**

130111 Nondestructive Evaluation (NDE) Fundamentals for Bridge Inspection is an introductory course that exposes bridge inspectors to NDE technologies. This course defines and describes the progression of nondestructive evaluation bridge inspection, overview explanations of NDE techniques, and descriptions of the NDE approaches in terms of their applicability to the primary bridge materials of concrete, steel, and timber. The goal of 130111 Nondestructive Evaluation Fundamentals for Bridge Inspection is to provide learners with the necessary background to identify the primary NDE technologies to supplement bridge inspection, and the materials for which they are best suited. A secondary goal of this course is to provide a foundation for more in-depth study of the NDE topics covered in the WBT Course Series, Practical Applications of Nondestructive Evaluation for Bridge Inspection, which includes 130112A NDE for Concrete Bridge Elements, 130112B NDE for Steel Bridge Elements, and 130112C NDE for Timber and Other Bridge Elements.

OUTCOMES

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

- Describe the application of NDE technology to corrosion and related flaws.
- Describe the application of NDE technology to construction flaws including honeycombing, voids, and inadequate rebar cover
- Explain NDE investigation techniques of concrete bridge elements

TARGET AUDIENCE

The target audience for course 130111 includes public and private sector bridge inspectors, supervisors, project engineers, and others responsible for field inspection of in-service bridges. This will include personnel who may be engineers or technicians in positions such as bridge inspection program manager, bridge inspection project manager, bridge inspection team leader, bridge inspection team member, and FHWA Structural/Bridge Engineers.

TRAINING LEVEL: Basic

FEE: 2020: \$0 Per Person; 2021: N/A

LENGTH: 6 HOURS (CEU: .6 UNITS)

CLASS SIZE: MINIMUM: 0; MAXIMUM: 0

NHI Customer Service: (877) 558-6873 • nhicustomerservice@dot.gov