



## COURSE NUMBER

FHWA-NHI-134062

## COURSE TITLE

### Bridge Evaluation for Rehabilitation Design Considerations 4.5 Day

The ultimate goal of this effort is the development of a nationally accepted program that will serve to improve quality, ensure uniformity, and establish a minimum standard for bridge rehabilitation. The course will present innovative and state-of-the-art bridge rehabilitation technologies and procedures for a broad array of structural elements including bridge decks, girders, piers, and abutments.

Core curriculum for the course is 4.5 days and covers the outcomes listed below.

## OUTCOMES

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

- Describe conditions that suggest the need for rehabilitation
- Identify the need for, and capacity of, destructive and/or non destructive testing (NDT) for assessment of existing conditions
- Prescribe analysis and load testing to determine the effect of existing conditions on the structure
- Distinguish root causes of distress and deterioration
- Formulate appropriate rehabilitation strategies
- Select procedures and materials for rehabilitation
- Develop effective rehabilitation construction documents
- Prepare and implement quality assurance for construction
- Monitor and resolve construction and material problems

## TARGET AUDIENCE

The target audience includes design engineers, field engineers, resident engineers, structural engineers, materials engineers, and other technical personnel involved in the construction and rehabilitation design of bridges. Participants with an engineering background are expected to constitute the target audience. People knowledgeable in new bridge design, but not necessarily bridge rehabilitation, should attend.

**TRAINING LEVEL:** Intermediate

**FEE:** 2017: \$1100 Per Person; 2018: N/A

**LENGTH:** 4.5 DAYS (CEU: 2.7 UNITS)

**CLASS SIZE:** MINIMUM: 20; MAXIMUM: 30

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