



## COURSE NUMBER

FHWA-NHI-130081C

## COURSE TITLE

### LRFD Design of Common Bridge Elements: Decks and Bearings

This course was recently updated to reflect the current AASHTO LRFD Bridge Design Specifications, 9th Edition. This course provides training to explain the design considerations for decks and bearings. It provides a summary of general deck design procedures, including an introduction to different types of bridge bearings, and provides specific design steps for the design of elastomeric bearings and High-Load Multi-Rotational Bearings (HLMRBs).

## OUTCOMES

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

- Summarize deck design procedures, including the strip width and empirical design methods, and deck overhang design
- Identify different types of bridge bearings and their primary applications
- Identify elastomeric bearing components and list the steps required for their design
- Identify High-Load Multi-Rotational Bearing (or HLMRB) components and list the steps required for their design

## TARGET AUDIENCE

The target audience for this course includes practicing public and private sector structural and bridge engineers with 0 to more than 20 years of experience. This includes agency and consultant structural designers, as well as project managers. Individuals taking these courses should have a minimum Bachelor of Science in Civil Engineering (BSCE) or equivalent degree. This course is intended for engineers that require experience with AASHTO bridge design provisions and updates.

**TRAINING LEVEL:** Basic

**FEE:** 2021: \$0 Per Person; 2022: N/A

**LENGTH:** 3 HOURS (CEU: .3 UNITS)

**CLASS SIZE:** MINIMUM: 0; MAXIMUM: 0

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