



COURSE NUMBER

FHWA-NHI-130081P

COURSE TITLE

General Superstructure Design Considerations (Web-based)

This course, 130081P, serves as a WBT prerequisite to the following ILTs:

130081

130081A, and

130081B

This course provides training on the fundamentals for LRFD highway superstructure design. This includes a basic understanding of LRFD development and implementation, general design and location features related to superstructure design, and the primary loads and load combinations used for superstructure design. This course is a prerequisite to the Instructor-Led Training (ILT) Courses 130081 LRFD for Highway Bridge Superstructures - Steel and Concrete (4-Day ILT), 130081A LRFD for Highway Bridge Superstructures - Steel (2-Day ILT), and 130081B LRFD for Highway Bridge Superstructures - Concrete (2-Day ILT), and it covers only general sections of the LRFD Specifications.

OUTCOMES

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

- Describe the fundamentals of LRFD, the historical background of LRFD, and the basic components of LRFD for superstructure design
- Describe location features, basic design objectives, principles of bridge aesthetics, and constructability issues for superstructure design
- Describe the primary loads, load combinations, and load factors used for steel and concrete superstructure design

TARGET AUDIENCE

The target audience for this course is practicing public and private sector structural and bridge engineers with 0 to 20 years of experience. This includes agency and consultant structural designers, as well as project managers. Individuals taking this course 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. Additionally, participants wishing to take 130081, 130081A, or 130081B should have taken this WBT in advance of the first day of the ILT.

TRAINING LEVEL: Basic

FEE: 2016: \$0 Per Person; 2017: \$0 Per Person

LENGTH: 3 HOURS (CEU: .3 UNITS)

CLASS SIZE: MINIMUM: 20; MAXIMUM: 40

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