

**COURSE NUMBER**

FHWA-NHI-130081D

**COURSE TITLE****LRFD Steel I-Girder Details Design**

This course was recently updated to reflect the current AASHTO LRFD Bridge Design Specifications, 9th Edition. This course provides training to apply the key LRFD limit state verifications for specific details associated with steel girders. It includes a description of the LRFD design requirements for stiffeners, shear connectors, cross-frames, diaphragms, welded connections, and bolted field splices.

**OUTCOMES**

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

- Describe the function, behavior, and LRFD design requirements for transverse and bearing stiffeners and shear connectors
- Describe the function, behavior, and LRFD design requirements for cross-frames, diaphragms, and both bolted and welded connections
- Describe the function, behavior, and LRFD design requirements for bolted field splices

**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:** 4 HOURS (CEU: .4 UNITS)

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

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