

**COURSE NUMBER**

FHWA-NHI-130108

COURSE TITLE**Bridge Maintenance (ILT)**

Replacing the original Bridge Maintenance course (FHWA-NHI-134029), this entirely new Instructor-led Training (ILT) course will provide participants with knowledge regarding common deficiencies that occur in bridges, common defects in bridge elements, preventive maintenance techniques, and protective systems intended to prevent deterioration and deficiencies in bridges. With this knowledge, this course will enable participants to investigate proper bridge maintenance procedures using bridge maintenance resources and apply these practices on-the-job.

WEB-BASED TRAINING (WBT) PREREQUISITE: It is strongly recommended that participants take and complete FHWA-NHI-130107A Fundamentals of Bridge Maintenance WBT prerequisite prior to taking this 4-day ILT. This prerequisite WBT is being offered free of charge to participants.

OUTCOMES

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

- Identify key steps involved in the development and implementation efforts of a cost-effective preservation strategy for a group of bridges.
- Identify maintenance and/or repair needs and select the best remedial strategy.
- Discuss properties and preservation options involving common bridge materials such as concrete, steel and timber.
- Describe the step-by-step tasks required to accomplish proven preservation procedures on the various bridge elements.
- Identify critical members and avoid procedures that might result in damage such as field welding repairs on fracture critical tension members.
- Recognize problems that warrant specialized expertise, for example, soliciting the involvement of a qualified structural engineer when repairing structural damage.
- Apply effective management techniques (such as planning, scheduling, monitoring and reporting) during daily bridge maintenance operations.

TARGET AUDIENCE

This course is primarily for members of State and Local Departments of Transportation, as well as those contractors that perform work on behalf of these agencies. This training is primarily geared for individuals involved in on-site bridge maintenance and preservation activities and those that supervise and manage these activities. This training is appropriate for those with intermediate to advanced experience in bridge maintenance and repair activities. This training is also suitable for those with intermediate/advanced knowledge of general maintenance and repair activities that have successfully completed the prerequisite, FHWA-NHI-130107A Fundamentals of Bridge Maintenance WBT course. Those that are not involved in on-site bridge maintenance activities, such as designers and construction personnel, may also benefit from this training.

TRAINING LEVEL: Intermediate

FEE: 2021: \$430 Per Person; 2022: N/A

LENGTH: 4 DAYS (CEU: 2.3 UNITS)

CLASS SIZE: MINIMUM: 20; MAXIMUM: 30

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