COURSE NUMBER
FHWA-NHI-132069

COURSE TITLE
Driven Pile Foundation Inspection

This course provides Federal, State, and local inspectors with practical knowledge and standard industry practices for inspecting pile-driving operations at transportation construction sites.

To establish a national standard for transportation personnel, NHI developed the course based on a number of Federal and State sources: the course materials from the Florida Department of Transportation’s Pile Driving Inspector’s Qualification test, AASHTO’s 2000 Bridge Construction Specifications, and the NHI courses Driven Pile Foundations - Design and Construction (FHWA-NHI-132021) and Driven Pile Foundations - Construction Monitoring (FHWA-NHI-132022). However, the local specifications, inspection reports, and plan sheets available from the hosting agency also will be discussed. The course includes a 3-hour qualification examination.

OUTCOMES
Upon completion of the course, participants will be able to:
• Explain the inspector’s role, duties, and responsibilities
• Describe the pile-driving system components
• Recognize key inspection elements of the contract documents
• Identify proper communication and coordination with the engineer and contractor
• Identify the key elements of a pile installation plan
• Recognize and identify pile-driving system components and tools
• Verify tip elevations, cutoff elevations, pile penetration, and length driven for vertical and battered piles
• Perform inspection of pile-driving operations and verify compliance with construction tolerances
• Recognize when to stop driving based upon provided driving criteria, minimum tip or penetration, and refusal guidelines.
• Verify pile condition, labeling, and marking for compliance
• Recognize and explain the difference between test piles and production piles and the various types of pile testing
• Identify “driving” irregularities
• Identify and document pay quantities
• Interpret and apply applicable AASHTO specifications relating to foundation acceptance
• List potential problems and safety issues

TARGET AUDIENCE
The target audience for this course includes those who inspect pile-driving operations during construction of foundations and major structures. In addition, project management and construction engineers in charge of pile-driving construction inspections are encouraged to attend. Attendees should have completed courses in basic courses in reading construction plans as well as construction math and high school algebra.

TRAINING LEVEL: Intermediate

FEE: 2020: $400 Per Person; 2021: N/A
LENGTH: 2.5 DAYS (CEU: 1.5 UNITS)
CLASS SIZE: MINIMUM: 20; MAXIMUM: 35

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