



Learning in Progress

October 2012

Improving the Performance of the Transportation Industry
Through Training

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OCTOBER TRAINING SESSIONS

Interested in taking an NHI training course in October?

There are more than 25 NHI courses currently scheduled across the country in the month of October. Visit the [NHI Web site](#) to see a list of this month's training sessions.

If you can't make it to any of NHI's in-person, Instructor-led trainings, you can always take a self-paced, Web-based training (WBT). NHI now offers more than 130 WBTs. Click [here](#) to see a complete list of NHI's WBTs.

Course Spotlights:

[130096 Cable-Stayed Bridge Seminar](#)

The National Highway Institute's (NHI) one-day Cable-Stayed Signature Bridge Seminar is intended to provide participants with an introduction to planning, design, and construction of long-span, cable-stayed bridges. The seminar provides an overview of the features of cable-stayed bridges; their construction and maintenance considerations; and analyses needed to design these highly redundant structures including special aerodynamic studies.

This seminar will engage participants through Instructor-led presentations, discussions, Q&A, group activities, and walk-through examples. Participants will review a case study to help them understand how the curriculum can be applied to making basic design decisions. Major topics covered include: bridge configurations, construction methodology, component details, analysis, aerodynamics, design methodology, construction engineering, and maintenance and inspection. As part of the seminar, participants will receive a copy of FHWA Design Guidelines for the Arch and Cable-Supported Signature Bridges.

As a result of the seminar, participants will become familiar with the features of, construction and maintenance considerations; and analyses needed to design cable-stayed bridges.

TRANSPORTATION IN THE NEWS

[DOT Secretary's Blog](#)

[AASHTO Journal](#)

[ASCE News](#)

QUESTIONS?

E-mail NHI Marketing at nhimarketing@dot.gov

[132014 Drilled Shafts](#)

Drilled shafts are an alternate type of deep foundation that may be more cost effective and perform better than other types of deep foundations in bridge piers at river crossings and in retrofit operations, high-mast lighting, earth retaining structures, single-column piers, and similar applications. This course provides participants with specific technical guidance on all aspects of designing, installing, and monitoring the construction of drilled shafts. The lessons address the following topics: applications, advantages, and disadvantages of drilled shafts for transportation structure foundations; general requirements for subsurface investigations; construction methods; construction case histories; construction specifications; principles of designing drilled shafts for axial and lateral loading; expansive soils, downdrag, and similar effects; load testing; inspection; integrity testing; repair and retrofit of defective shafts; and cost estimation. The participants will receive a comprehensive reference manual on drilled shaft construction and design used by engineers who perform detailed designs of drilled shafts, write construction specifications, and evaluate the performance of contractors through a comprehensive inspection program.

Please visit the [NHI Web site](#) to learn more about hosting or participating in these courses.

NHI: On the Road

On **October 7-11**, representatives from NHI will attend [The National Transportation Training Directors' \(NTTD\) Annual Conference in Seattle, WA](#). NHI will provide an update of its projects, initiatives, and training innovations, in addition to speaking on the subjects of Distance Learning Expansion, Training Challenges in an Ever-Changing Environment, and Growing Your Organization's Virtual Presence.

NHI will also attend the [Deep Foundations Institute's \(DFI\) 37th Annual Conference on Deep Foundations in Houston, TX, October 16-19](#). Attendees are encouraged to stop by our

booth to learn more about NHI's wide range of training opportunities and pick up valuable manuals from some of NHI's most popular Geotechnical courses.

NHI-Hosted Trainings at Arlington Facilities

In response to requests from the transportation community, NHI will host a series of NHI courses at our training facilities located in Arlington, VA. NHI will offer our most popular courses and others not widely offered in individual States.

NHI's modern facilities offer four training rooms that feature the tools and equipment necessary to ensure a productive and engaging learning environment. Additionally, we are housed within 15 minutes of the Nation's capital. We welcome the opportunity to host transportation professionals from across the country as well as from the DC metro area.

Upcoming Sessions:

[310119 Writing Effective Program Review Reports: Moving People to Action](#)

Nov 14-15, 2012

Soon to be Scheduled:

[142051 Highway Traffic Noise](#)

[152054 Introduction to Urban Travel Demand Forecasting](#)

[130053A Bridge Inspection Refresher Training](#)

[130091 Underwater Bridge Inspection](#)

[130091B Underwater Bridge Repair](#)

[Rehabilitation, and Countermeasures](#)

[130055 Safety Inspection of In-Service Bridges](#)

For more information about upcoming trainings at NHI's training facilities, be sure to [subscribe to NHI News and Updates](#).