

Learning in Progress

August 2010



Improving the Performance of the Transportation Industry through Training

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www.nhi.fhwa.dot.gov
www.nhi.fhwa.dot.gov/tccc
NHIMarketing@dot.gov

Web Site Redesign

NHI is updating its Web site to make it easier to find the resources you need. At the end of June, NHI launched several preview pages for site visitors to experience the new look and feel. These preview pages give visitors a sample of the changes that will be applied to the entire site over the next few months.

Still to come is a completely new Home Page design which will make site content more accessible and easier to read. In addition, a left-side navigation bar and site map will be added to make the Web site easier to navigate. Overall, the updates will make using the NHI Web site more enjoyable and efficient for everyone. The new design and functionality elements will be applied across the entire site in September 2010.

To check out the new design, please visit the [NHI Web site](#) and browse the preview pages.

New and Updated Courses

We have five exciting new Instructor-led Trainings: 130091A, 380103, 380109, and 130099 are all new classroom-based courses, while 130091 is an updated course. Please click on the titles below to learn more about these courses.

- [Alternative Intersections and Interchanges \(380109\)](#)
- [Bridge Inspection Non-Destructive Evaluation Showcase \(BINS\) \(130099\)](#)
- [Highway Safety Improvement Program Manual \(380103\)](#)
- [Underwater Bridge Inspection-Updated \(130091\)](#)
- [Underwater Bridge Repair, Rehabilitation, and Countermeasures \(130091A\)](#)

For the latest listing of all NHI courses, visit the [NHI Web site](#).

NHI Partners with DFI

In June, NHI participated in a ceremony to finalize a partnership agreement with the Deep Foundations Institute (DFI). This agreement, initiated by Silas Nichols, FHWA Senior Geotechnical Bridge Engineer, allows NHI to combine resources with DFI to offer selected courses from the Geotechnical Curriculum through DFI according to the needs of the organization's members. The primary goals of the cooperative partnership are to:

- Establish a framework for coordinated delivery of NHI geotechnical engineering training on multiple platforms through DFI
- Promote the coordinated effort to build the professional capacity of practitioners designing; constructing; and inspecting deep foundations for roadways, bridges, and other transportation structures
- Advance the common mission of FHWA and DFI through training and education for practicing engineers, technicians, contractors, service suppliers and manufacturers, and other ge-professionals



NHI Director of Training, Rick Barnaby (seated, left) and DFI President, Rudolph P. Frizzi (seated, right) signing the partnership agreement. (From back left) NHI Training Program Manager, Louisa Ward; FHWA Senior Bridge Engineer, Silas Nichols; and DFI Executive Director, Theresa Rappaport

We are excited about this partnership and look forward to educating a larger portion of the engineering community.

Upcoming Web Conferences

Over the last four months, the **NHI Real Solutions Seminar Series** has hosted many innovative presentations on the following topics: VDOT Design Build Project: Gilberts Corner

(April), Connection and Overlap Between Bridge Inspection and Construction Inspection: The MassHwy Story (May), SCAN 09-05 Best Practices for Roadway Tunnel Design, Construction, and Maintenance (Part II) (June), and Drilled Shaft Design, Construction, and Testing: The WSDOT Story (July).

The **NHI Innovations** series continued with the Highways for LIFE seminars Continuous Flight Auger Piles (May 20), High Friction Surface Treatments to Reduce Crashes at Curves (May 24), Culvert Repair Techniques (June), and Construction Analysis Software Tools (CAST) (July).

Did you know you can watch past seminars anytime? Check out the NHI Web site for recordings of previous seminars or to register for future [NHI Real Solutions Seminars](#) or [NHI Innovations](#) seminars.

Upcoming NHI Innovations Seminars:

- August 19, 2010, 2:30 - 4 pm EST, Fiber-Reinforced Polymer (FRP) Composites
- September 16, 2010, 2:30 - 4 pm EST, Work Zone Assessment, Data Collection, and Performance Measurement

Want to be notified when registration opens for any of these free Web conferences? E-mail nhimarketing@dot.gov.

New Course Spotlight: Underwater Bridge Repair, Rehabilitation, and Countermeasures (Instructor-led Training, 130091A)

This two-day course will provide training on techniques for selecting and executing repairs to below water bridge elements. The primary goal of this course is to enable design engineers to select, design, and specify appropriate and durable repairs to below water bridge elements. A secondary goal of the course is to train staff in effective construction inspection of below water repairs.

The course is intended for design engineers, construction inspectors, resident engineers, and inspection divers who may be engaged in the design, specifications, or inspection of repairs to bridge elements located in and below water. The course also may be of interest to contract administrators responsible for bridge repair or rehabilitation projects.

It is expected that participants will have a working knowledge of bridge terminology, construction materials, and traditional repair technologies. Participants may also have backgrounds in bridge maintenance, repair, or construction. The audience will include persons with a range of education and technical backgrounds.

Length: 2-day

CEU: 1.2 Units

Fee: \$420 per participant

To learn more about this training and to request to host, visit the [NHI Web site](#).

Transportation in the News

States Embrace Roundabouts for Intersections

USA Today

6/23/2010

Converting a traditional intersection to a roundabout led on average to a 35% drop in crashes and a 76% drop in fatal or serious injury crashes, according to a 2007 study of 55 sites by the National Cooperative Highway Research Program of the National Academies.

[See full article](#)

New Data Shows State DOTs Continue Using Recovery Investments to Create Jobs

AASHTO Journal

6/11/2010

The Federal Highway Administration released updated information this week about the American Recovery & Reinvestment Act showing it has approved 12,604 State highway projects totaling \$26.6 billion--100% of the total available highway funds provided by the Recovery Act. The Federal Transit Administration has approved 1,012 projects worth \$8.7 billion.

[See full article](#)

Obama Administration Moving Freight More Safely, Smoothly, and Sustainably

Fastlane: The Official Blog of the U.S. Secretary of Transportation

6/10/2010

It may seem that DOT spends a lot of energy on moving passengers. But I want to remind you that every step we take to improve mobility for people also improves mobility for the supplies and goods we want and need.

[See full article](#)

AASHTO's New Highway Safety Manual

The new Highway Safety Manual (HSM) was launched in mid-July and takes a science-based approach to safety analysis. Through the use of a science-based approach industry professionals are able to quantitatively measure crash frequency. These measurements can then be compared to other transportation performance measures including transportation impacts, environmental impacts, and construction costs to improve roadway safety. For example, the construction of a new intersection or addition of a turning lane in an existing intersection could dramatically impact the number of crashes in that area.

The new HSM provides concrete methods for creating and evaluating roadway safety programs. The goal of the new HSM is to provide States with the tools necessary to apply quantitative estimates of crash frequency and severity into planning, project analysis, and safety program development and evaluation. It also supports States in their efforts to reduce traffic fatalities and serious injuries.

For more information on the new HSM, please visit AASHTO's HSM [Web site](#).

Courses of Excellence: March - June 2010

Course	Course Title	Training Type	Average
420018A	Instructor Development Course (4.5-Day)	ILT	4.91
135041A	HEC-RAS, River Analysis System (3.5-Day)	ILT	4.88
132070	Drilled Shaft Foundation Inspection	ILT	4.83
141029	Basic Relocation under the Uniform Act	ILT	4.82
310109	Federal-Aid 101 (FHWA Employee Session)	ILT	4.80
135056	Culvert Design	ILT	4.79
380073	Fundamentals of Planning, Design and Approval of Interchange Improvements to the Interstate System	ILT	4.75
420018	Instructor Development Course (3.5-Day)	ILT	4.75
134065	Risk Management	ILT	4.75
380074	Designing and Operating Intersections for Safety	ILT	4.73
133099	Managing Travel for Planned Special Events (2-Day)	ILT	4.72
380085	Guardrail Installation Training	ILT	4.68
380069	Road Safety Audits/Assessments	ILT	4.67
380003	Design and Operation of Work Zone Traffic Control (1-Day)	ILT	4.67
135027	Urban Drainage Design (3-Day)	ILT	4.66
380109	Alternative Intersections and Interchanges	ILT	4.65
130092	Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures	ILT	4.65
380060	Work Zone Traffic Control for Maintenance Operations (Short Term)	ILT	4.64
141030	Advanced Relocation under the Uniform Act	ILT	4.59
142005	NEPA and Transportation Decisionmaking	ILT	4.57
380032A	Roadside Safety Design (3-Day)	ILT	4.55
130078	Fracture Critical Inspection Techniques for Steel Bridges	ILT	4.54
130053	Bridge Inspection Refresher Training	ILT	4.54
130055	Safety Inspection of In-Service Bridges	ILT	4.54
133078	Access Management, Location and Design	ILT	4.54
132042	Design of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes	ILT	4.53
380072	Advanced Work Zone Management and Design	ILT	4.53
132014	Drilled Shafts	ILT	4.52
310110	Federal-Aid Highways - 101 (State Version)	ILT	4.51

In May, NHI attended and exhibited at the 2010 Intelligent Transportation Society of America (ITSA) Annual Meeting and Exhibition. The conference gave Intelligent Transportation System professionals an opportunity to discuss and share new technologies and strategies that address today's transportation challenges. ITSA invited industry leaders to attend the conference and talk about various topics; such as, cost-effective approaches to reduce traffic crashes and congestion; finance infrastructure projects; and managing system performance. The conference also hosted an onsite hearing of the Texas Senate Committee on Transportation and Homeland Security. In addition, DOT Secretary Ray LaHood was the featured speaker of the closing session; he commented on his vision of the future of our Nation's transportation system.

Over the next few months NHI will be attending the following conferences:

- ITE's 2010 Annual Meeting and Exhibit, August 8-11 in Vancouver, Canada
- APWA's 2010 International Public Works Congress and Exposition, August 15-18 in Boston, MA
- M-TRAC's Conference, August 17-18 in St. Louis, MO
- The U.S. Department of Transportation's TransExpo Conference, August 19 in Washington, DC
- APTA's Annual Meeting, October 3-6 in San Antonio, TX
- DFI's 35th Annual Conference, October 12-15 in Hollywood, CA

TCCC Corner



TCCC (Transportation Curriculum Coordination Council) along with NHI have seen record high enrollments for Web-based trainings--we had more than 1,700 TCCC training participants from March to May.

We now have 55 WBTs available on the [NHI Web site](#) and many new training resources have been added to the [NTTR database](#). Based on your feedback we have updated TCCC Plan Reading (134108) and TCCC Math Module (134072).

As always, we want to make sure that all TCCC trainings are easy to use and informative.

Also, we would like to welcome Maryland and Michigan to our TCCC Training Sharing Program. This program has allowed us to train another 8,800 participants at the State level who use State specific LMSs or have trouble accessing the NHI Web site.

The TCCC Training Sharing Program along with the NHI Web site has allowed us to reach more than 17,000 participants since February 2008. Keep watching for new and exciting things from TCCC!

New Trainings Available

[TCCC CDL Series - Air Brakes \(381005\)](#)

[TCCC CDL Series - General Knowledge \(381004\)](#)

[TCCC CDL Series - Pre-Trip Inspection \(381006\)](#)

[TCCC HMA Paving Inspection \(131129\)](#)

[TCCC Maintenance Series - Recognizing Roadside Weeds \(134107\)](#)

[TCCC Maintenance Series - Safe Use of Basic Carpentry Tools \(381003\)](#)

[TCCC Maintenance Series - Safe Use of Hand and Power Tools \(381002\)](#)

Updated Trainings Available

[TCCC Plan Reading \(134108\)](#)

[TCCC Math Module \(134072\)](#)

WBTs Coming Soon!

TCCC Pipe Inspection (134105)

TCCC Flagger Training (380107)

TCCC Maintenance of Drainage Features for Safety (380108)

With new topics being added monthly!

Staffing Update

We are excited to welcome two great new team members: La Tricia Austin-Downer, Customer Support Specialist for the KAT team and Brian Kleinfelt, Instructional Systems Designer.

