

Learning in Progress

June 2009



Improving the Performance of the Transportation Industry through Training

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Web Conference Update

Since March, the NHI Real Solutions Seminar series has hosted presentations on the following topics: Administrative Records: Supporting Your Decision (April), Integrating Bicycle and Pedestrian Facilities in Constrained Rows (May), and Smart Corridors and Complete Streets (June).

Congratulations to instructor Bruce Landis - his Integrating Bicycle and Pedestrian Facilities in Constrained Rows seminar generated a record attendance of about 840 participants!

The NHI Innovations series continued with the seminars Connections Manual for Pre-Fab Bridges (April), Safety Edge (May).

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 Real Solutions Seminar Series:

- July 23, 2009, 1 - 3 pm EST, eLearning and Distance Learning within the Transportation Industry: Where Are We?
- August 27, 2009, 1 - 3 pm EST, Using Critical Path Method (CPM) Schedule to Avoid and Measure Project Delays

Upcoming NHI Innovations:

- July 2, 2009, 2:30 - 4 pm EST, Precast Concrete Pavement Systems
- August 19, 2009, 2:30 - 4 pm EST, U.S. Domestic

Scan Report: ACTT/Best Practices in Project Delivery Management

- September 16, 2009, 2:30 - 4 pm EST, Speed Management in Work Zones

NHI Introduces Blended Learning Courses

NHI recognizes that participants like the ability to ask questions and interact with an instructor and other class participants. At the same time, Web-based training allows participants to view the material at their own pace and a time that is most convenient to them. Thus, NHI has introduced a "blended" method that has both classroom (either Instructor-led or Web conference) and self-paced Web-based components.

NHI has recently released six new "blended" learning courses: FHWA-NHI-142059 Effective Communications in Public Involvement, FHWA-NHI-131113 Fundamentals of Life Cycle Cost Analysis, FHWA-NHI-134073 Leap Not Creep: Accelerating Innovation Implementation, FHWA-NHI-380083 Low Cost Safety Improvements, FHWA-NHI-380093 Application of Crash Reduction Factors and FHWA-NHI-380094 Science of Crash Reduction Factors. We are excited about this new approach! Visit the [NHI Online Catalog](#) to sign up!

Customer Success: INDOT's LaPorte District

Bill Meeks, Technical Services Director for the Indiana DOT's LaPorte district, took NHI's TCCC Pavement Preservation: Design and Construction of Quality Preventative Maintenance Treatments course (FHWA-NHI-131103). The knowledge he gained from the course ended up saving INDOT almost a million dollars! Meeks told his story to NHI:

"I've always felt that dollars spent on training for the right topic at the right time is the best investment that any organization can make, and that was certainly the case here. Sure, we all knew that preventative maintenance was far more cost effective, but my previous positions in State and Local Government provided little exposure to Pavement Preservation techniques. During the NHI class the instructor covered Fog Seals, a subject that I was unfamiliar with. It got me thinking about where we could take advantage of the concept. I knew that we were finishing up a relatively small resurfacing project design and wondered if we could make it work there. The shoulder portion of the project was initially scoped for a thin overlay. However, after the NHI class we inspected the shoulders again and determined that they were still structurally sound and a Fog Seal was the only treatment that was really needed. The Design Engineer, Brian Donze, pulled together the specs, and we ended up with a \$900,000+ construction cost savings on just this one job. Since then, Fog Sealing has become a treatment that we use whenever it is appropriate."

Do you have a success story you'd like to share? No matter how big or small your savings, we love to hear why NHI training was important for your group. Send a brief description of your experience to nhimarketing@dot.gov.

NHI Switches to Printing on Demand to Increase Efficiency

In the next few weeks, NHI will be switching to an on demand method of printing all training materials. Previously, materials were pre-printed and packaged months in advance. Now, materials will be printed as needed. Not only does this method allow the government to save money, it will make it easier to produce the most up to date materials. "While customers will see no difference in the way things operate, last minute changes can be made on the fly. We will also be able to tailor workbooks to fit the needs of the specific customer and geographic location," said Mark Klinge, NHI Materials Manager. Printing on demand will also help NHI go green. "We will know the exact number of materials to be printed, so there will be no excess - no wasted paper," Klinge noted.

New and Updated Courses

Instructor-led Training	
FHWA-NHI-130092	Load and Resistance Factor Rating for Highway Bridges
FHWA-NHI-132081	Highway Slope Maintenance and Slide Restoration
FHWA-NHI-133072	High Occupancy Vehicle (HOV) Facilities
FHWA-NHI-133101	Using Incident Command System at Highway Incidents
FHWA-NHI-134061	Construction Program Management and Inspection
FHWA-NHI-137033	ITS/CVO Security Awareness
FHWA-NHI-139004	Principles of Effective Commercial Motor Vehicle (CMV) Size and Weight Enforcement
FHWA-NHI-139005	Linking Freight to Planning and the Environment
FHWA-NHI-142048	Managing Road Impacts on Stream Ecosystems: An Interdisciplinary Approach
FHWA-NHI-142055	Advanced Seminar on Transportation Project Development: Navigating the NEPA Maze
FHWA-NHI-310116	FHWA Role in Public Private Partnerships
FHWA-NHI-380069	Road Safety Audits/ Assessments
FHWA-NHI-380085	Guardrail Installation Training
FHWA-NHI-380089	Designing for Pedestrian Safety
FHWA-NHI-380090	Developing a Pedestrian Safety Action Plan
FHWA-NHI-380091	Planning and Designing for Pedestrian Safety
Web-based Training	
FHWA-NHI-131122	TCCC Portland Cement Concrete Paving Inspection
FHWA-NHI-134070	SpecRisk Quality Assurance Specification Development and Validation
FHWA-NHI-134081	TCCC Plan Reading

FHWA-NHI-134084	TCCC Fundamentals of Materials Used for Concrete Pavements
FHWA-NHI-134085	TCCC Incompatibility in Concrete Pavement Systems
FHWA-NHI-134087	TCCC Mix Design Principles
FHWA-NHI-134095	TCCC Early Age Cracking
FHWA-NHI-134096	TCCC Basics of Cement Hydration
FHWA-NHI-134097	TCCC Fresh Properties
FHWA-NHI-134098	TCCC Construction of Concrete Pavements
FHWA-NHI-134100	TCCC QCOA for Concrete Pavements
FHWA-NHI-134101	TCCC Design of Pavement
FHWA-NHI-135086	Stream Stability Factors and Concepts (Prerequisite)
FHWA-NHI-135087	Scour at Highway Bridges: Concepts and Definitions (Prerequisite)
FHWA-NHI-137046	ITS Deployment Analysis System (IDAS)
Blended Learning Training	
FHWA-NHI-131113	Fundamentals of Life Cycle Cost Analysis
FHWA-NHI-134073	Leap Not Creep: Accelerating Innovation Implementation
FHWA-NHI-142059	Effective Communications in Public Involvement
FHWA-NHI-380083	Low-Cost Safety Improvements, Blended Approach
FHWA-NHI-380093	Application of Crash Reduction Factors (CRF)
FHWA-NHI-380094	Science of Crash Reduction Factors

Updated Pricing; Improving Training

NHI is continuing to provide low cost training options for transportation professionals. In an effort to improve the quality of training and provide additional resources, NHI will be increasing course fees beginning January 1, 2010. Fiscal year 2009 pricing will still be applicable to 2010 courses requested by December 31, 2009. We're expanding distance learning trainings, including Web-based training and Web-conference training to eliminate travel costs.

Lean Six Sigma Training at NHI

By the end of the summer, 45 members of the NHI team will have participated in Lean Six Sigma training. Lean Six Sigma is a business management strategy that improves the quality of everyday business processes by eliminating waste and variability.

Levels of training are indicated by the "belt" system, borrowed from martial arts. In May, some staff members received white belts, the most basic training, and some team members received yellow belts, one level more advanced. In August, six team members are going to receive green belt training (an advanced certification).

NHI is excited to put our new skills to use to deliver training of the highest quality possible!

Courses of Excellence: March 24 - June 16

Course	Course Title	Training Type	Average
142046	Bicycle Facility Design	ILT	4.85
132070	Drilled Shaft Foundation Inspection	ILT	4.82
134029	Bridge Maintenance Training	ILT	4.78
420018	Instructor Development Course (3.5-Day)	ILT	4.75
135041A	HEC-RAS, River Analysis System (3.5-Day)	ILT	4.69
380075	New Approaches to Highway Safety Analysis	ILT	4.67
135082	Highways in the Coastal Environment	ILT	4.67
135041	HEC-RAS, River Analysis System (3-Day)	ILT	4.65
310109	Federal-Aid 101 (FHWA Employee Session)	ILT	4.64
142045	Pedestrian Facility Design	ILT	4.63
130053	Bridge Inspector Refresher Training	ILT	4.63
135065	Introduction to Highway Hydraulics	ILT	4.62
380060	Work Zone Traffic Control for Maintenance Operations (Short Term)	ILT	4.61
130055	Safety Inspection of In-Service Bridges	ILT	4.60
134060	Partnering: A Key Tool for Improving Project Delivery in the Field	ILT	4.60
141044	Appraisal Review for Federal-Aid Highway Programs	ILT	4.60
135046	Stream Stability and Scour at Highway Bridges	ILT	4.59
142054	Design and Implementation of Erosion and Sediment Control	ILT	4.59
131106	Transportation Asset Management	ILT	4.59
134068	Addressing Uncertainty in Cost Estimating	ILT	4.59
135047	Stream Stability and Scour at Highway Bridges for Bridge Inspectors	ILT	4.58
130092	Load and Resistance Factor Rating for Highway Bridges	ILT	4.56
131104	TCCC Pavement Preservation: Integrating Pavement Preservation Practices and Pavement Management	ILT	4.54
135027A	Urban Drainage Design (4-Day)	ILT	4.50
135048	Countermeasure Design for Bridge Scour Stream Instability (2.5-Day)	ILT	4.50
131063	Hot-Mix Asphalt Pavement Evaluation and Rehabilitation	ILT	4.50



TCCC (Transportation Curriculum Coordination Council) is excited about our many accomplishments over the last few months. We now have 18 Web-based trainings available, a new Web site at www.nhi.fhwa.dot.gov/tccc, and the NTTR database (<http://www.ntrr.dot.gov>) for training resources.

In this section, we will share our outstanding participant numbers, new TCCC/NHI Web-based trainings, and tell you what feedback we are getting. At the end of May we had reached more than 3,800 participants with only 15 of these trainings. In addition, we are sharing the TCCC trainings with seven other States that have Internet restrictions or LMS (Learning Management System) needs and have been able to reach another 1,000+ participants. That means NHI/TCC has reached more than 4,800 participants!

In addition, the TCCC team met in Arlington for a Summer Meeting from June 9 to 11. We talked about the many accomplishments this year and then met in breakout groups to talk about additional training development, communications and marketing, resource advancement, matrix development, and performance measures.

We are still hearing some good things from our customers for old and new TCCC trainings...

FHWA-NHI-134087: "The course provided an updated knowledge in the subject area presented."

FHWA-NHI-134095: "Course presented a clear understanding of early age cracking in concrete."

FHWA-NHI-134069: "I liked the online method. It suited my work schedule."; "Course was good for all areas of DOT but especially for Materials and Quality Assurance personnel."

FHWA-NHI-134071: "I think this is a great opportunity for all of us! And it's great to be able to have this material to learn or refresh at the push of a button!"

New Trainings Available

FHWA-NHI-134097 TCCC Fresh Concrete Properties - Concrete Series

FHWA-NHI-134098 TCCC Construction Module - Concrete Series

FHWA-NHI-131122 TCCC Introduction to PCC Construction Inspection

FHWA-NHI-134100 TCCC QAQC - Concrete Series

FHWA-NHI-134101 TCCC Design of Pavement - Concrete Series

WBTs Coming Soon!

FHWA-NHI-134102 TCCC Troubleshooting for Concrete Pavements

FHWA-NHI-131121 TCCC Construction of Portland Cement Concrete Pavements

FHWA-NHI-131126 TCCC Concrete Pavement Preservation

FHWA-NHI-134074 TCCC Bolted Connections

FHWA-NHI-380098 TCCC Maintenance of Traffic for Technicians

FHWA-NHI-380099 TCCC Maintenance of Traffic for Supervisors

Staffing Updates

Heather Shelsta, previously a contractor, has joined us as the Training Program Manager for Systems and Marketing. Sandy Gourdine has joined the NHI team as the new Scheduler. Welcome, Heather and Sandy!



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National Highway Institute | 4600 N. Fairfax Drive, Suite 800 | Arlington | VA | 22203

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