



NHI/TCCC Web-based Training Update

**Annual M-TRAC
Technical Trainers Workshop**

August 2009





Agenda

- What's New At NHI
- NHI and TCCC Partnership
- What We Have Accomplished
- What We Are Doing Now
- Future Opportunities



What's New At NHI





What's New At NHI

- Economic Reality - ILT course enrollments are down 30% from last year
- NHI Response – Cost Effective Training Solutions
 - Improved cost management
 - Increased evaluation of viability of proposed course developments
 - Increased distance learning development: 59 courses in development; 14 are Web-based
 - Total IT systems review to improve user access and ease of use of Web products.
 - Researching and implementing Web 2.0 technologies to deliver training content.



What's New At NHI

- New Website Features
 - RSS Feeds
 - Web Conference Recordings Posted
 - Additional materials available on NHI store
 - Single Login for WBT
 - Mobile Training
- Experimenting with Video-teletraining
- Print on Demand for NHI materials
- Exploring public/private partnerships for developing training and delivering training.



Web Site Redesign

- Modern look and feel
- More user-friendly and intuitive
- Single login
- Usability testing



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site search



Training
Hosting
Purchasing Materials
Working with NHI
Learning about NHI

Search for a Course

[more search options](#) [course listing](#)

Real Solutions

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NHI Innovations

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News

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Headline Goes Here

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Courses

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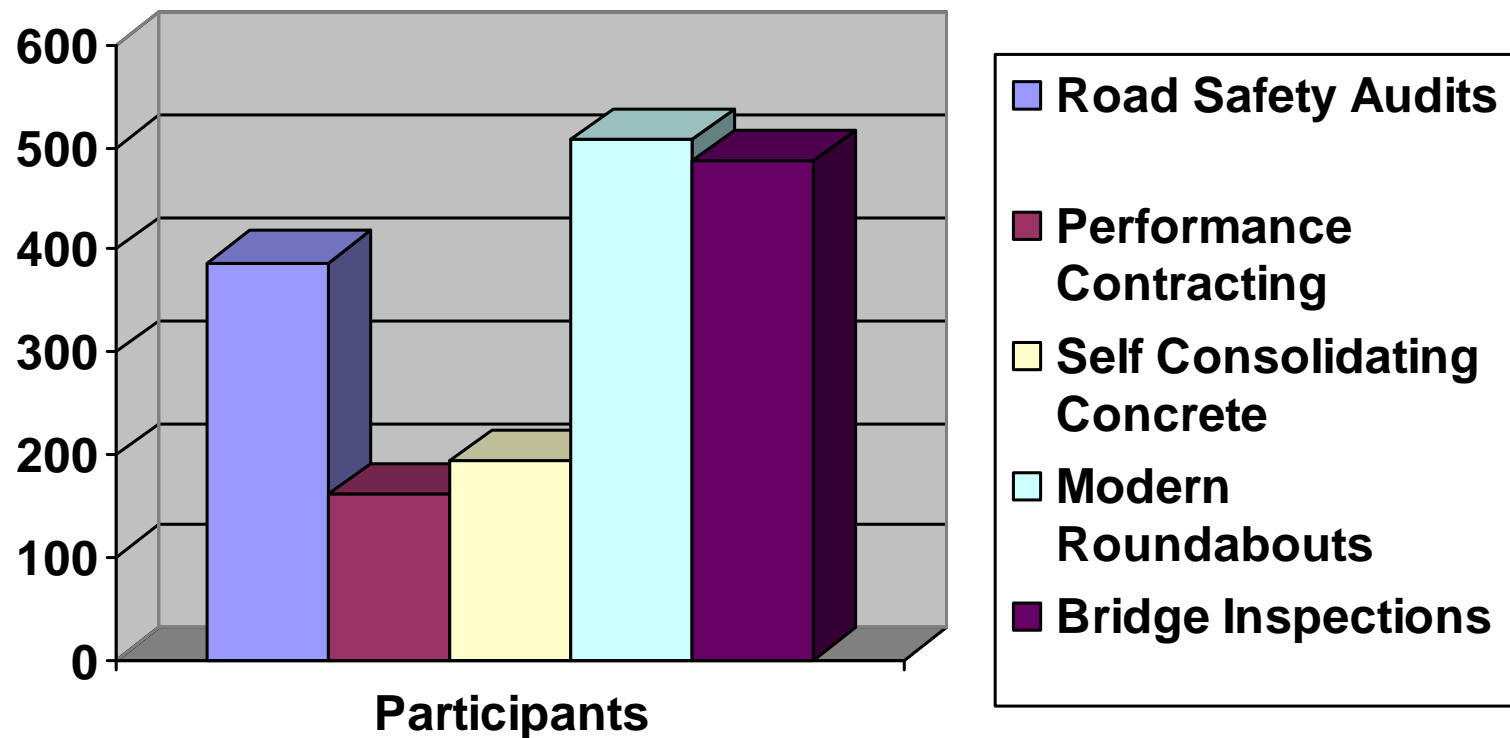
NHI Innovations

- In response to customer feedback, Highways for LIFE partners with NHI to provide this FREE monthly Web conference series
- Monthly 90 minute Webinars on Emerging Technologies
- Webinars are recorded and posted on NHI Website
- Upcoming Seminars:
 - August 18, 2009, 2:30-4 pm EST, Best Practices in Accelerated Construction Techniques
 - September 16, 2009, 2:30-4 pm EST, Speed Management in Work Zones



NHI Innovations

- Listen to previous seminars or download the presentations from the NHI Web site:
 - www.nhi.fhwa.dot.gov/about/innovationseries.aspx





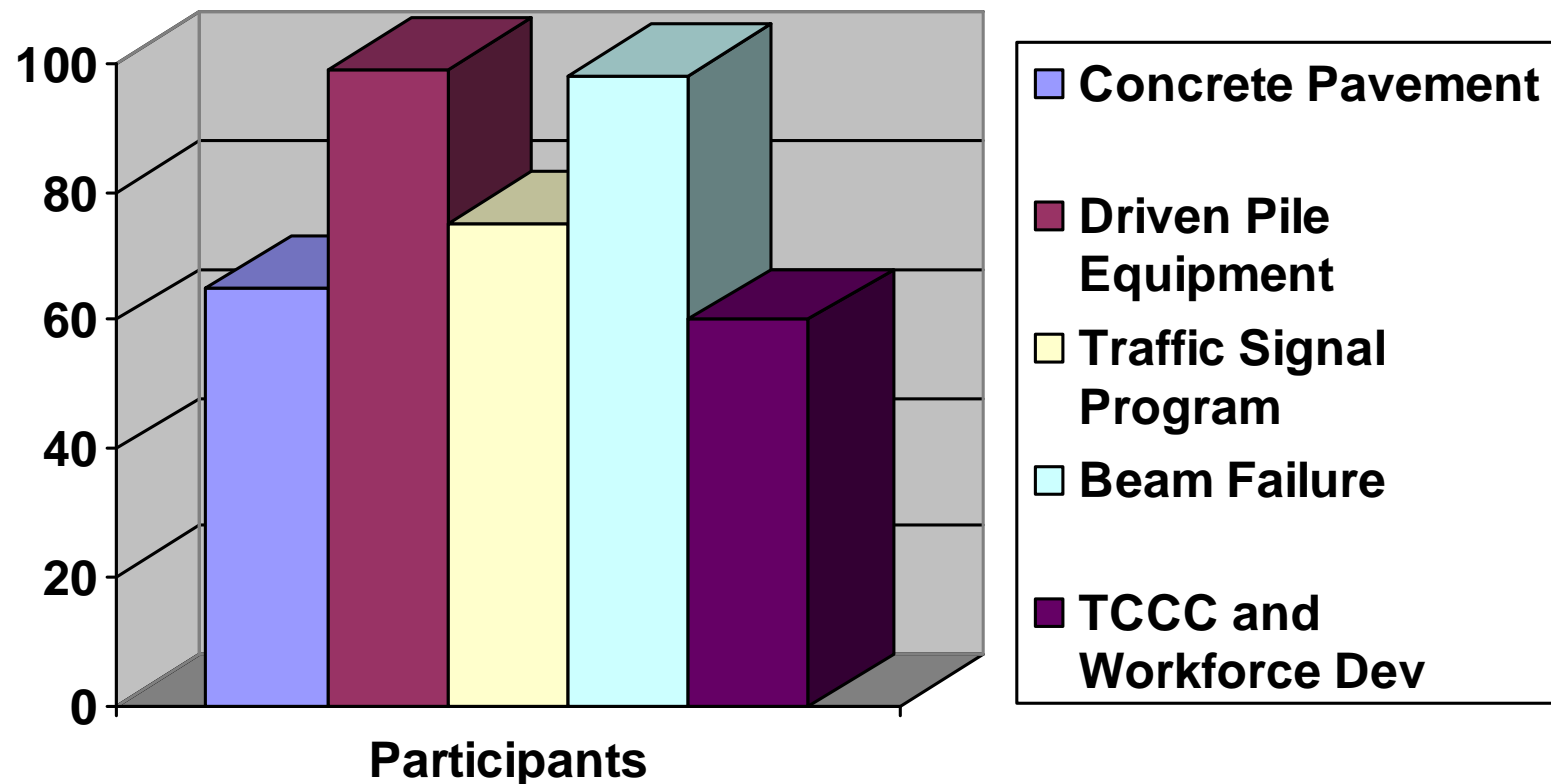
NHI Real Solutions

- Features guest speakers who are practitioners in the transportation industry
- Present solutions to issues faced in the field and how problems were solved
- FREE Web-seminars series hosted by NHI
- Upcoming Seminar:
 - August 27, 2009, 1-2:30 pm EST, Using the Critical the Path Method (CPM) Schedule



NHI Real Solutions

- Listen to previous seminars or download the presentations from the NHI Web site:
 - www.nhi.fhwa.dot.gov/about/realsolutions.aspx





NHI and TCCC Partnership





NHI/TCCC Team

- NHI Team supporting TCCC
 - Kevin Monaghan – PM/Course Developer
 - Emily Lloyd – Instructional Designer
 - Tim Lee – Graphic Artist
 - Amanda Moss – Marketing Specialist
 - Rachel Grant – Marketing Specialist
 - Danielle Mathis-Lee – Marketing COTR
 - Marty Ross – Course Development COTR
 - Mark Klinge – Course Materials Manager



NHI/TCCC WBT Development

- Pooled Fund
- NHI provides WBT Development Support
 - TCCC selects/prioritizes training topics most commonly needed by the States
 - States provide ILT content they are currently using, to convert to WBT
 - TCCC Curriculum Working Group reviews and edits the selected ILT course content
 - NHI converts the ILT materials to WBT courses and hosts them on the NHI website



NHI/TCCC WBT Development

- Advantage
 - Re-use of existing training content commonly needed throughout the States reduces training development redundancy, time and cost
- Result
 - Free WBT courses are accessible through the NHI Website by anyone with Internet access



What we have accomplished...





Completed TCCC Trainings

- FHWA-NHI-131117
 - Basic Materials for Highway
- FHWA-NHI-131122
 - Portland Cement Concrete Paving Inspection
- FHWA-NHI-134069
 - Ethics Awareness for the Transportation Industry
- FHWA-NHI-134071
 - Basic Construction and Maintenance Documentation - Improving the Daily Diary
- FHWA-NHI-134072
 - Math Module
- FHWA-NHI-134075*
 - Hardened Concrete Properties - Durability



Completed TCCC Trainings

- FHWA-NHI-134078
 - GPS Technology
- FHWA-NHI-134081
 - Plan Reading
- FHWA-NHI-134084*
 - Fundamentals of Materials Used for Concrete Pavements
- FHWA-NHI-134085*
 - Incompatibility in Concrete Pavement Systems
- FHWA-NHI-134087*
 - Mix Design Principles
- FHWA-NHI-134095*
 - Early Age Cracking



Completed TCCC Trainings

- FWHA-NHI-134096*
 - Basics of Cement Hydration
- FHWA-NHI-134097*
 - Fresh Properties
- FHWA-NHI-134098*
 - Construction of Concrete Pavements
- FHWA-NHI-134100*
 - QCQA for Concrete Pavements
- FHWA-NHI-134101*
 - Design of Pavement
- FHWA-NHI-134102*
 - Troubleshooting for Concrete Pavements



Development Time in Weeks

Course Number	Course Title	Launch Date	Weeks
FHWA-NHI-131117	Basic Materials for Highway and Structure Construction and Maintenance	4/14/2008	16
FHWA-NHI-131122	Portland Cement Concrete Paving Inspection	4/14/2009	17
FHWA-NHI-134069	Ethics Awareness for the Transportation Industry	4/14/2008	6
FHWA-NHI-134071	Basic Construction and Maintenance Documentation - Improving the Daily Diary	4/14/2008	13
FHWA-NHI-134072	Math Module	6/21/2008	12
FHWA-NHI-134075	Hardened Concrete Properties - Durability	7/8/2008	5
FHWA-NHI-134078	GPS Technology	7/31/2008	5
FHWA-NHI-134081	Plan Reading	10/24/2008	12
FHWA-NHI-134084	Fundamentals of Materials Used for Concrete Pavements	12/18/2008	12
FHWA-NHI-134085	Incompatibility in Concrete Pavement Systems	1/12/2009	5
FHWA-NHI-134087	Mix Design Principles	1/12/2009	4
FHWA-NHI-134095	Early Age Cracking	3/5/2009	8
FHWA-NHI-134096	Basics of Cement Hydration	3/17/2009	6
FHWA-NHI-134097	Fresh Properties	5/21/2009	13
FHWA-NHI-134098	Construction of Concrete Pavements	5/21/2009	9
FHWA-NHI-134100	QCQA for Concrete Pavements	6/3/2009	6
FHWA-NHI-134101	Design of Pavement	6/3/2009	10
FHWA-NHI-134102	Troubleshooting for Concrete Pavements	6/22/2009	8



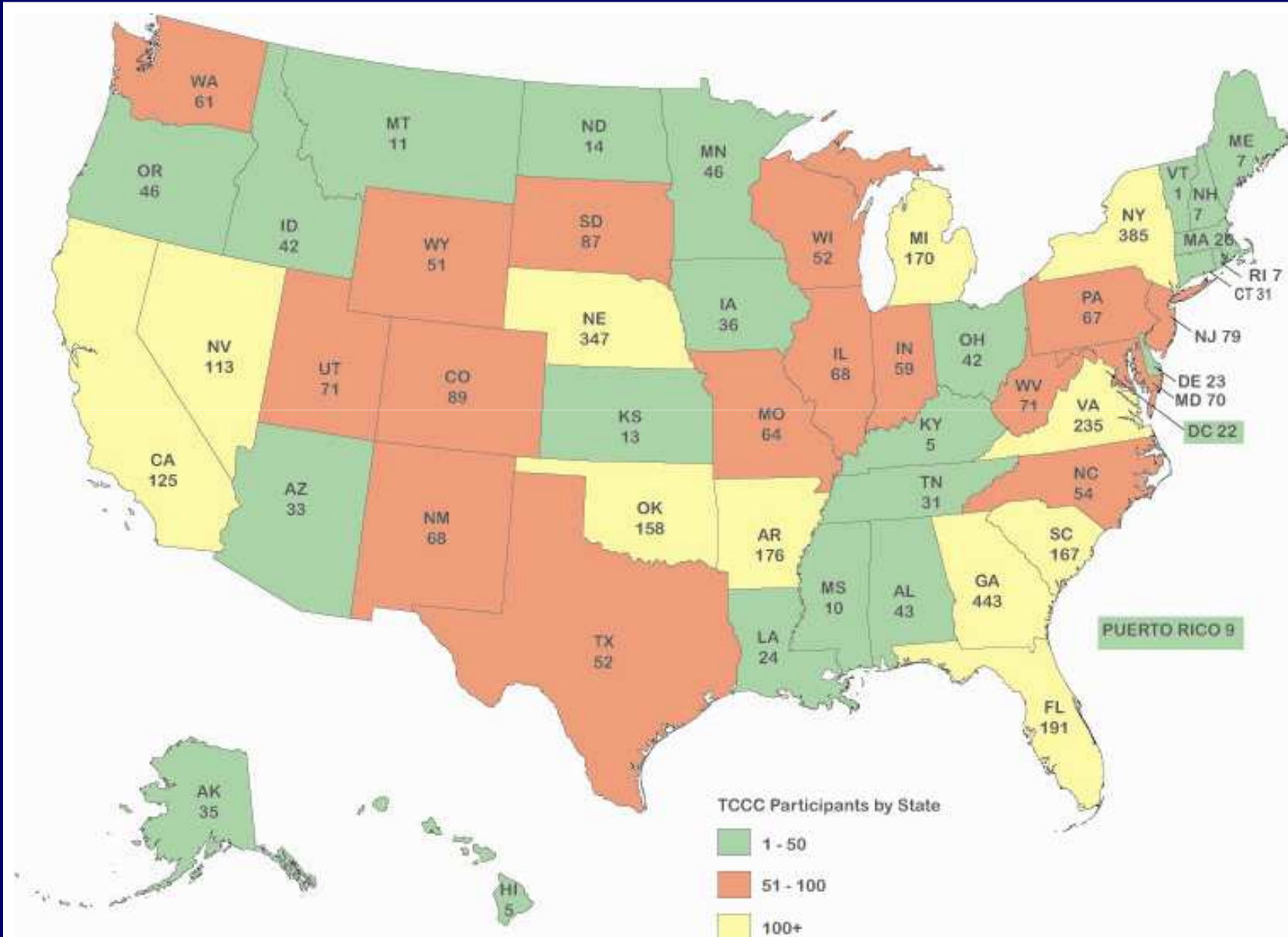
NHI Website Training Numbers – Participants by Fiscal Year

Course Number	Course Title	FY2008	FY2009	Totals
FHWA-NHI-131117	Basic Materials for Highway and Structure Construction and Maintenance	137	390	527
FHWA-NHI-131122	Portland Cement Concrete Paving Inspection		55	55
FHWA-NHI-134069	Ethics Awareness for the Transportation Industry	123	376	499
FHWA-NHI-134071	Basic Construction and Maintenance Documentation - Improving the Daily Diary	138	260	398
FHWA-NHI-134072	Math Module	88	244	332
FHWA-NHI-134075	Hardened Concrete Properties - Durability	39	164	203
FHWA-NHI-134078	GPS Technology	189	279	468
FHWA-NHI-134081	Plan Reading		927	927
FHWA-NHI-134084	Fundamentals of Materials Used for Concrete Pavements		225	225
FHWA-NHI-134085	Incompatibility in Concrete Pavement Systems		128	128
FHWA-NHI-134087	Mix Design Principles		200	200
FHWA-NHI-134095	Early Age Cracking		75	75
FHWA-NHI-134096	Basics of Cement Hydration		58	58
FHWA-NHI-134097	Fresh Properties		11	11
FHWA-NHI-134098	Construction of Concrete Pavements		18	18
FHWA-NHI-134100	QCQA for Concrete Pavements		9	9
FHWA-NHI-134101	Design of Pavement		7	7
FHWA-NHI-134102	Troubleshooting for Concrete Pavements		4	4
Totals		714	3426	4144



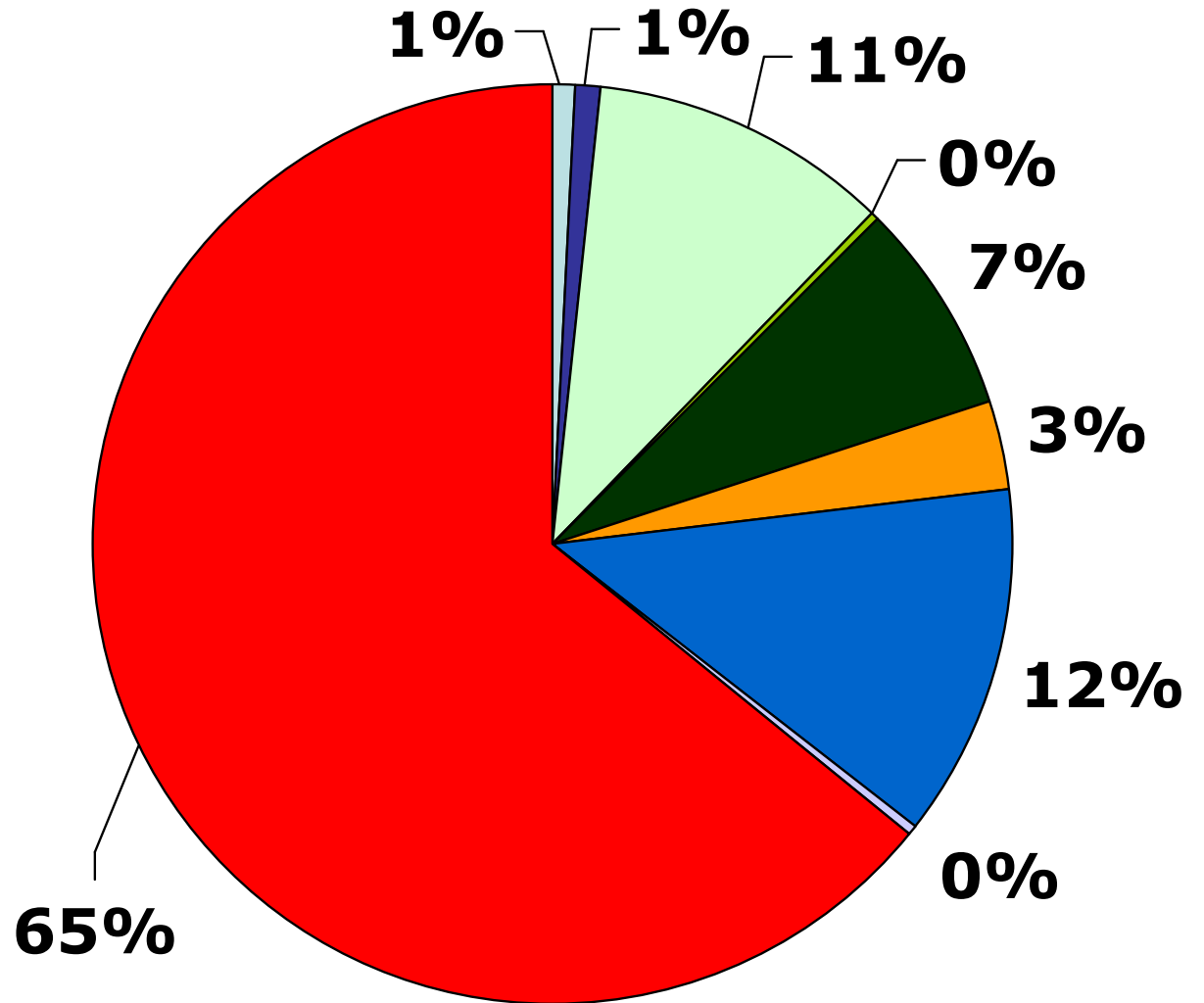
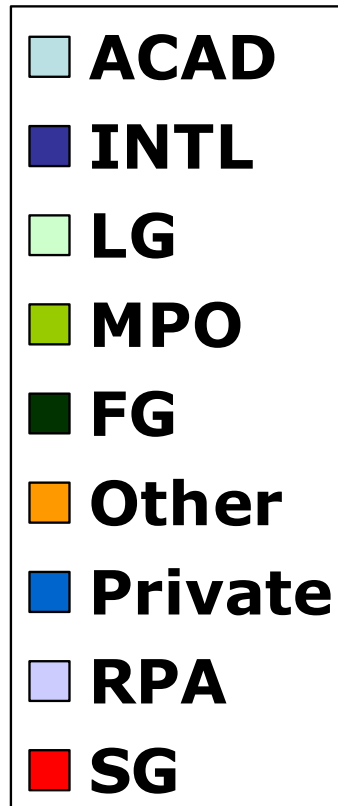


NHI Website Training Numbers – Participants by State





NHI Website Training Numbers – Participants by Industry Type





TCCC Trainings Shared with States

- States we share our TCCC trainings with
 - Iowa
 - Texas
 - Maryland
 - Minnesota
 - Alabama
 - North Dakota
 - South Carolina
- Use with Intranets and LMSs
- Some States make TCCC training required
 - Math Module for Supervisors – Minnesota (357)
 - Ethics Awareness Statewide – Alabama (4,360)



Total Participants Training Numbers

Course Number	NHI	States (Shared)	Total
FHWA-NHI-131117	527	57	584
FHWA-NHI-131122	55	13	68
FHWA-NHI-134069	499	4414	4913
FHWA-NHI-134071	398	98	496
FHWA-NHI-134072	332	399	731
FHWA-NHI-134075	203	19	222
FHWA-NHI-134078	468	38	506
FHWA-NHI-134081	927	45	972
FHWA-NHI-134084	225	23	248
FHWA-NHI-134085	128	17	145
FHWA-NHI-134087	200	16	216
FHWA-NHI-134095	75		75
FHWA-NHI-134096	58		58
FHWA-NHI-134097	11		11
FHWA-NHI-134098	18		18
FHWA-NHI-134100	9		9
FHWA-NHI-134101	7		7
FHWA-NHI-134102	4		4
Totals	4140	5139	9279



*Participant totals only include Iowa, Texas, Minnesota, and Alabama at this time



Evaluation Average Scores

Course Number	Course Title	Score
FHWA-NHI-131117	Basic Materials for Highway and Structure Construction and Maintenance	4.20
FHWA-NHI-131122	Portland Cement Concrete Paving Inspection	
FHWA-NHI-134069	Ethics Awareness for the Transportation Industry	4.17
FHWA-NHI-134071	Basic Construction and Maintenance Documentation - Improving the Daily Diary	4.55
FHWA-NHI-134072	Math Module	4.12
FHWA-NHI-134075	Hardened Concrete Properties - Durability	4.24
FHWA-NHI-134078	GPS Technology	4.37
FHWA-NHI-134081	Plan Reading	3.96
FHWA-NHI-134084	Fundamentals of Materials Used for Concrete Pavements	4.36
FHWA-NHI-134085	Incompatibility in Concrete Pavement Systems	4.37
FHWA-NHI-134087	Mix Design Principles	4.48
FHWA-NHI-134095	Early Age Cracking	4.34
FHWA-NHI-134096	Basics of Cement Hydration	4.08
FHWA-NHI-134097	Fresh Properties	
FHWA-NHI-134098	Construction of Concrete Pavements	
FHWA-NHI-134100	QCQA for Concrete Pavements	
FHWA-NHI-134101	Design of Pavement	4.40
FHWA-NHI-134102	Troubleshooting for Concrete Pavements	



What Are People Saying

- FHWA-NHI-134085 Presented some methods I was not familiar with that will be helpful in the future.
- FHWA-NHI-134081 For me it was a satisfactory program because it reinforced some of the things I already [knew] and got exposure in other areas I have not had prior experience.
- FHWA-NHI-134078 I am in construction inspection, though I have been on projects with paper plans and electronic data, I have not been on a project where GPS was directly employed in field construction. This course was a good exposure for me.
- FHWA-NHI-134075 It refreshes some concepts I have not used in a while and provided an understanding of new ones. The course was definitely relevant to some aspects of construction inspection.



What Are People Saying

- FHWA-NHI-134087 The course provided an updated knowledge in the subject area presented.
- FHWA-NHI-134095 Course presented a clear understanding 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 as great opportunity for all of us! And it's great to be able to have this material to learn or refresh at a push of a button!



TCCC Marketing Efforts

- Website Marketing
 - New courses area
 - WBT training area
 - About NHI > NHI in the News
- NHI 2009 Catalog
 - Full page descriptions for each training
 - Icons for highlighting WBT and New trainings
 - Full page table of all TCCC trainings
 - NHI Real Solutions insert article
- NHI 2009 Real Solutions Standalone



TCCC Marketing Efforts

- New Course Launch
 - NHI Blueline with marketing messages about other TCCC trainings
 - Email blast with cross marketing of TCCC trainings
- Thank You Emails
 - Continue to send to new participants
 - Quarterly basis
- NHI Newsletter
 - TCCC Corner
 - Other NHI/TCCC Highlights



TCCC Marketing Efforts

- NHI/TCCC Article Submissions
 - Public Roads-Training Update
 - Focus
 - FHWA News
- NHI Real Solution Series (Webinar)
 - Topic: TCCC and what it means to you
 - February 2009
 - Free monthly series
 - Guest speakers
 - Problems and solutions





Training Development In Progress

- FHWA-NHI-131121
 - Construction of PCC Pavements
- FHWA-NHI-131126
 - Concrete Pavement Preservation
- FHWA-NHI-131127
 - Concrete Series (IMCP Manual)
- FHWA-NHI-134074
 - Bolted Connections
- FHWA-NHI-380098
 - Maintenance of Traffic for Technicians
- FHWA-NHI-380099
 - Maintenance of Traffic for Supervisors



Training Development In Progress

- FHWA-NHI-131128
 - Self Consolidating Concrete
- FHWA-NHI-134105
 - Surveying
- FHWA-NHI-134106
 - Pipe Inspection
- FHWA-NHI-380101
 - Safety Orientation



Training Development On Deck

- Geotechnical (September)
- Flagger Training (September)
- Earthwork (September)
- Transportation Project Management (September)
- Clear Road Series (TBD)
- Maintenance Safety (TBD)
- MEPDG (TBD)



Future Opportunities



Marketing Efforts

- Targeted Training Promotions
- Target Marketing for Series Training
- NHI Website Single Login Feature
- Executive Summary
- “On the Go” training



Executive Summary

- An Executive Summary is a five minute overview of the training (NOT a training course)
- Consolidate the principal points of a training course and provide an overview
- Preview to an audience who may or may not have time to attend a training session
- Audience should understand the main points and the evidence for those points without having ever seen the course
- <http://fhwa.na3.acrobat.com/n131122es/>



"On the Go" Training

- MP4 Players
- Increased mobility and accessibility
 - Reach a larger audience
 - Provide on-demand training as the participants requires
- Multiple formats
 - Desktop
 - Laptop
 - Portable (phone devices)



Thank You

Questions?

