

**TCCC**  
**Training Course Development Report**  
**Updated for July 2005**

AVAILABLE TRAINING	TECHNICAL PANEL MEMBERS
<p style="text-align: center;"><b>Bridge Construction Inspection 130088</b></p> <p>This training course presents bridge construction topics for the inspector level, and will be developed in modular fashion. The course serves as an introduction for State and local DOT inspectors to become familiar with construction operations on bridge projects. It covers project planning foundations, materials, substructures, superstructures, and decks. This course includes four days of material and is available to State and local governments. A technical walk-through was held in February 2005, and the pilot was held in MO in April 2005</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• NHI Contact: Larry Jones 703-235-0523</li> </ul>	<p><b>Shay Barrows - FHWA-NJ</b></p> <p><b>Calvin Karper - FHWA-OK</b></p> <p><b>Robert Salazar - NMSHTD</b></p> <p><b>Linda Hughes - WSDOT</b></p>
<p style="text-align: center;"><b>Hot-Mix Asphalt Construction 131032</b></p> <p>The course was originally developed by the AASHTO Joint Asphalt Industry/Agency Committee in 1991/92. The course was revised for NHI. The course is targeted for contractor project superintendents, foremen, SHA project engineers, and lead inspectors. The participant manual was revised in July 2002. The course is available for scheduling, with instructors provided by ERES Consultants. The <i>Hot Mix Asphalt Handbook 2000</i>, the revised reference for the course, has been published by TRB and is also now available as a technical resource.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Jim Sorenson 202-366-1333</li> <li>• FHWA Contact: Matt Corrigan 202-366-1549</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Jack Matthews – Ala. HMA (Ret)</b></p> <p><b>John Bukowski - FHWA-HIPT</b></p> <p><b>Joseph Thomas - MNDOT</b></p> <p><b>Dale Decker</b></p> <p><b>Garth Newman - ITD</b></p>
<p style="text-align: center;"><b>Construction of Portland Cement Concrete Pavements 131033</b></p> <p>This joint industry/agency training is divided into 6 modules: 1) Introduction/Quality PCC Pavements; 2) PCC Production (ready-mix and central); 3) Slipform paving operations; 4) Fixed Form paving operations; 5) Pavement curing, sawing, and sealing operations; and 6) Concrete Pavement Rehabilitation (CPR) techniques. The course is available for delivery, with instructors provided by the American Concrete Paving Association. A new RFP for modification and delivery is being developed and should be awarded by the end of July 2005.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Mike Rafalowski 202-366-1371</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul> <p>#</p>	<p><b>Mike Praul – ME Division</b></p> <p><b>Lou Triandafilou – FHWA – RC (Baltimore)</b></p> <p><b>Angel Correa – FHWA - RC (Atlanta)</b></p>

<p style="text-align: center;"><b>Hot Mix Asphalt Production Facilities 131044</b></p> <p>This 2-day course is designed to give participants the background information on HMA plant production to adequately inspect the HMA plant production process to ensure minimum standards of product quality are met. It is designed for project engineers, lead inspectors, plant supervisors, foremen, and all others involved with the HMA plant production. This is a joint industry/agency effort developed by the Asphalt Joint Training Committee. Course materials were updated and completed in July of 2002. This course is available for delivery with instructors provided by Applied Pavement Technologies.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• FHWA Contact: Matt Corrigan 202-366-1549</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Joe Thomas - MNDOT</b></p> <p><b>Terry Young</b></p> <p><b>Kent Hanson - NAPA</b></p> <p><b>Mike Worischeck</b></p> <p><b>John Bukowski - FHWA-HIPT</b></p> <p><b>Garth Newman – ITD</b></p>
<p style="text-align: center;"><b>Hot-Mix Asphalt Materials, Characteristics &amp; Control 131045</b></p> <p>This training course is the result of a partnership between AASHTO, FHWA, and the Hot-Mix Asphalt (HMA) Industry. It combines lectures and problem solving workshop sessions to provide participants with a working knowledge of HMA materials, their characteristics and controls. The course focuses on two areas. The first provides technical information on the material properties of HMA, the processes used to measure these properties, and the effect that these properties have on the final, compacted pavement. The second involves achieving these properties in the field, with discussions on quality management, and analyzing the impact of segregation and density on HMA pavement performance. The course concludes with an examination, which reviews the key elements of HMA materials, characteristics and control. Course materials were updated and completed in July of 2002. Available for scheduling with instructors provided ERES.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Jim Sorenson 202-366-1333</li> <li>• FHWA Contact: Matt Corrigan 202-366-1549</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Joe Thomas - MNDOT</b></p> <p><b>Kent Hanson - NAPA</b></p> <p><b>John Bukowski - FHWA-HIPT</b></p> <p><b>Garth Newman - ITD</b></p>
<p style="text-align: center;"><b>Pavement Preservation: The Preventive Maintenance Concept 131054</b></p> <p>The Pavement Preservation Expert Task Group (PP ETG) supports the development of the joint FHWA/Industry NHI short course on pavement preservation. This course makes the case for preventive maintenance and pavement preservation programming for upper and mid-level managers. In addition, it provides an overview on effective preventive maintenance techniques and their cost effectiveness. The course discusses the importance of preventive maintenance (PM) and show how PM techniques can be used to effectively preserve the pavement performance and prolong its life. The demonstration of</p>	<p><b>Bob McQuiston - FHWA-OH</b></p>

<p>preventive maintenance techniques enables the State to plan, design, and apply the right technique, at the appropriate time, to preserve their highway system. Available for scheduling, with instructors provided by Applied Pavement Technologies.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Jim Sorenson 202-366-1333</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	
<p><b>Pavement Preservation: Selecting Pavements for Preventive Maintenance 131058</b></p> <p>This short course focuses on selecting the right pavement for the various preservation treatments by evaluating the merits of each treatment under various field conditions. This course illustrates in detail pavement evaluation, project selection, and materials considerations for the various preventive maintenance applications. It is intended for field manager and practitioners for both the owner and the industry. The course is complete and available for scheduling, with instructors provided by Applied Pavement Technologies.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Jim Sorenson 202-366-1333</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Mike Voth - CFLHD</b></p>
<p><b>Pavement Preservation: Design and Construction of Quality Preventive Maintenance Treatments 131103</b></p> <p>The training course is designed for the foreman on a road crew constructing preventive maintenance treatments, and for the agency or agency's representatives responsible for inspecting the project up to and including middle managers. The course will clearly distinguish between good and bad practices in the selection, design, and construction of quality preventive maintenance treatments. The following content areas are covered for each pavement preservation treatment:</p> <ol style="list-style-type: none"> <li>1. Material evaluation and selection.</li> <li>2. Logical sequence of steps in the construction process.</li> <li>3. Pre-construction inspection or evaluation to identify conditions that might have an adverse effect on treatment construction or performance.</li> <li>4. Common problems and the troubleshooting procedures used to identify and correct them.</li> <li>5. Post-construction inspection to verify that the project is constructed properly and ready to open to traffic.</li> </ol> <p>This course was developed in cooperation with the Foundation for Pavement Preservation, a longtime collaborator with FHWA on the development of courses in the Pavement Preservation series. An RFP for delivery will be published in</p>	<p><b>Dave Hawk - FHWA-NJ</b></p> <p><b>Steve Mueller – FHWA – NRC (Lakewood)</b></p> <p><b>John Roberts - ACPA</b></p> <p><b>Gary Hildebrand - Telfer/WFC</b></p>

<p>March 2005.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: David Hawk 609-637-4213</li> <li>• NHI contact: John Taylor 703-235-0524</li> </ul>	
<p><b>Pavement Preservation: Integrating Preventive Maintenance with Pavement Management Systems 131104</b></p> <p>The course communicates the importance of integrating preventive maintenance activities with pavement management systems to highway agencies. The course identifies how preventive maintenance affects pavement performance, how preventive maintenance and pavement management can be integrated, and how enhanced or integrated pavement management systems can be used effectively to support asset management decisions. A contract has been awarded for the development of the course, and a pilot presentation was given to the North Carolina DOT in August 2003. The final course materials have been submitted to FHWA, and a teaching contract RFP is in the process of being awarded.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Jim Sorenson 202-366-1333</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Steve Varnedoe - NCDOT</b></p> <p><b>Lita Davis - San Diego Cty</b></p> <p><b>Sonya Hill - FHWA-HIAM</b></p> <p><b>Keith Herbold - FHWA-NRC</b></p> <p><b>Steve Mueller – FHWA – NRC (Lakewood)</b></p>

<p style="text-align: center;"><b>Geotechnical Inspector Certification Program</b></p> <ul style="list-style-type: none"> <li>• Drilled Shaft Foundation Inspector <b>132070</b></li> <li>• Driven Piles Inspector <b>132069</b></li> </ul> <p>Certification materials and training documents for these NHI courses were completed and courses began Jan 03. The Drilled Shaft Foundation Inspector Course was piloted in Portland, OR and Kansas City, MO and the Driven Piles Inspector Course was piloted in Milford, MA. These courses are available through NHI and have been adapted by several State DOTs for in-house presentation as part of their technician certification programs. The courses have been a great success are among the most requested NHI Geotechnical Courses.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Peter Osborn 401-528-4550</li> <li>• NHI Contact: Larry Jones 703-235-0523</li> </ul>	<p><b>Peter Osborn -</b> FHWA – NRC (Baltimore)</p>
<p style="text-align: center;"><b>Principles of Writing Highway Construction Specifications 134001</b></p> <p>This course addresses the engineering, legal aspects, and linguistics of writing specifications. This is not a course in technical writing. The course, however, addresses the issues of how to draft new specifications or rewrite existing ones into clear, readable, and definitive statements of contract requirements. Classroom activities include lectures, case studies, workshops and writing assignments. The course materials were revised in 2003, and the course is currently available for delivery with instructors provided from Trauner Consulting Services.</p> <ul style="list-style-type: none"> <li>• FHWA Contact Contact: Roger Surdahl (720) 963-3768</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Jennifer Balis -</b> FHWA- HQ</p> <p><b>Peter Kopec –</b> FHWA -TFHRC</p> <p><b>Roger Surdahl -</b> FHWA – CFLHD</p> <p><b>Bernie Kuta -</b> FHWA – WRC</p> <p><b>Ken Jacoby –</b> FHWA – HQ</p>
<p style="text-align: center;"><b>Managing Highway Contract Claims: Analysis and Avoidance 134037</b></p> <p>The NHI Contract claims course is under revision to update its technical content, case studies, and delivery methods. FHWA and State DOT held the technical walk through with the consultant in March 2004, and the pilot presentation was held in Helena Montana on April 27-28, 2004. A second pilot course was held in Arilington, VA on August 30, 2004 and the course materials are complete. An RFP for further course development has been awarded.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Jennifer Balis -</b> FHWA-HIPA</p> <p><b>Larry Matthews -</b> Georgia DOT</p> <p><b>Bob Tholt -</b> Montana DOT</p> <p><b>Jerry Yakowenko -</b> FHWA-HIPA</p> <p><b>Gene Wortham -</b> ITD</p>
<p style="text-align: center;"><b>Materials Control and Acceptance-Quality Assurance (General Course) 134042</b></p> <p>An NHI contract for delivery of this course has been executed and the course is now available for delivery as either a 4-day course or an abbreviated 2-day</p>	<p><b>Mike Rafalowski -</b> FHWA-HIPT</p> <p><b>Ken Jacoby -</b> FHWA-HIAM</p>

course. The 4-day version is also included as one of the modules of the 6-week Materials Engineering Course. The course incorporates the elements of specification development and analysis, process control, acceptance sampling testing and inspection, quality assurance, independent assurance sampling, developing acceptable risk limits, project quality analysis, and bidding with respect to specifications, interpreting and reporting data, evaluating risk in acceptance specifications, and dispute resolution. The course integrates each of the elements and demonstrates how they work to deliver a quality product. In addition, the course has been designed to provide insight in developing solid, practical specifications that yield good performance along with equipping contractors to analyze their production capability to meet required criteria and assure a reasonable return for their work. This course is now available through NHI.

**Bruce Wasill -**  
FHWA-CFL

**Greg Schiess -**  
FHWA-FL

- FHWA Contact: Mike Rafalowski 202-366-1571
- FHWA Contact: Ken Jacoby 202-366-6503
- NHI Contact: John Taylor 703-235-0524

<p><b>Use of CPM for Estimating, Scheduling and Timely Completion 134049</b></p> <p>This training course is designed to educate State Highway, FHWA, and Industry project staff about the availability of effective construction and maintenance planning and scheduling tools that can help in providing visual representation of current project status, completed tasks, and expected completion of all activities. These tools can be focused to accelerate construction and minimize impact on the traveling public. Available for delivery with instructors provide by Trauner Consulting Services.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Celso Gatchalian 202-366-1342</li> <li>NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Celso Gatchalian -</b> FHWA-HIAM</p> <p><b>Kim Pellegrini -</b> FHWA-EFL</p> <p><b>Ken Jacoby -</b> FHWA-HIAM</p>
<p><b>Design and Implementation of Erosion and Sediment Control 134054</b></p> <p>This course addresses management techniques for controlling erosion and sedimentation on highway construction and maintenance operations. Methods to identify the source of erosion and sedimentation will be presented, including best management practices to insure the current legislative and regulatory requirement of FHWA, EPA, and local governments are met. Joint development between HIAM/Environment. The course is available for delivery with instructors provided by Nichols Consulting Engineers.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• FHWA Contact: Patricia Czenas 202-366-4085</li> <li>• NHI Contact: Mila Plosky 703-235-0527</li> </ul>	<p><b>Robin Schroeder -</b> FHWA – MN</p> <p><b>Shawn Jones -</b> FHWA – WFL</p> <p><b>Brian Beucler -</b> FHWA – EFL</p> <p><b>Cynthia Nurmil -</b> FHWA – NRC</p> <p><b>Mark Doctor -</b> FHWA – TN</p> <p><b>Jeffrey McSpaden -</b> FHWA – NRC (Olympia Fields)</p> <p><b>Tim Lewis -</b> FHWA – VA</p> <p><b>Joe Huerta -</b> FHWA – RC (Baltimore)</p>
<p><b>Bridge Maintenance 134029</b></p> <p>This course focuses on cost-effective bridge maintenance and repair procedures performed by typical transportation agency crews. Included are step-by-step instructions for preparing for and performing maintenance and repair on common bridge elements. Bridge preservation is emphasized throughout. While engineers often attend, the material is designed for bridge crew supervisors and technicians.</p>	

<p>The course was last updated in 2003 and is available for delivery from NHI.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Wade Casey 202-366-4606</li> <li>• NHI Contact: John Taylor – 703.235.0524</li> </ul>	
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<p style="text-align: center;"><b>Conducting Reviews that Get Results 310111</b></p> <p>This half-day to 1-day training course is intended for FHWA and State DOT employees to assist in developing and carrying out process reviews. The training course is presented by key FHWA staff on short notice, when a review is about to be initiated, to teach FHWA and State DOT staff the PR/PE review methodology. The main topics of the training course are be Clarification of the Review, Planning the Review, Data Collection, Analysis of Data, and Selling and Implementing Improvements. The course is currently available with instructors provided by FHWA.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• FHWA Contact: Denise Saunders 202-366-0438</li> </ul>	<p><b>Chris Newman -</b> FHWA-HIAM</p> <p><b>Butch Waidelich -</b> FHWA-NH</p> <p><b>Dean Mentjes -</b> FHWA-IL</p> <p><b>Denise Bednar -</b> FHWA-NRC (Olympia Fields)</p>
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<p style="text-align: center;"><b>Instructor Development Course for Technical Trainers</b></p> <p>The Instructor Development Course (IDC) for technicians is a 2 ½ day course that assists participants in conducting technical training. The course is intended to improve participants' presentation skills, communication skills, and adult learner skills. In addition the course includes demonstrations of the proper methods of instructing laboratory test procedures to new technicians. The course also covers administering written and proficiency exams for qualifications. The participants demonstrate a 15-minute training that is critiqued by the instructor and fellow participants to ensure mastery of the course learning outcomes. The pilot was successfully conducted in September 2004 and the course materials are available for distribution.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>NHI Contact: Debbie Gwaltney 703-235-1199</li> </ul>	<p><b>Brian Legan -</b> NMSTD</p> <p><b>Douglas Townes –</b> NRC (Atlanta)</p> <p><b>Christie Anderson</b> -IA DOT</p> <p><b>Dennis Devorac –</b> NRC (Olympia Fields)</p>
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<b>COURSES UNDER DEVELOPMENT</b>	<b>TECHNICAL PANEL MEMBERS</b>
<p align="center"><b>Principles and Practices for Cost-effective Maintenance Management Systems 131107</b></p> <p>Building on the successful, "Maintenance Management Forum for the 21st Century," the three day NHI short course will detail the state of the practice and will define the necessary components and measures necessary for a state of the art maintenance management system. The Phase 1 work for the creation of a comprehensive AASHTO Maintenance Management Guide for the 21<sup>st</sup> Century has been completed. The Guide will serve as the basis for the NHI course development. The panel met on December 6 – 7, 2004 to begin the development of this course. It is expected that this course will be completed and available for distribution Winter 2005-2006</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Celso Gatchalian 202-366-1342</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Keith Herbold - FHWA-RC</b></p> <p><b>Bob Kardian - VDOT</b></p> <p><b>Lacy Love - NCDOT</b></p> <p><b>Len Schultz - MDSHA</b></p> <p><b>Mike Bousliman - MTDOT</b></p> <p><b>Paul Corti - Vermont AOT</b></p>
<p align="center"><b>Inspection of Mechanically Stabilized Earth Walls (MSEW) 132080 and Reinforced Soil Slopes</b></p> <p>This module will cover the Inspection of MSEW and RSS Construction. Topics include: Proper Construction Sequence; Backfill gradations, compaction, electrochemical properties; Reinforcement types, testing, and handling; Wall facing types, handling, attachments, and manufacturing; proper drainage details. The development of course materials is underway. The kick-off meeting was held in August of 2004. The technical panel will hold a pilot of the course in September 2005 with final deliverables expected in October 2005.</p> <ul style="list-style-type: none"> <li>• FHWA/NRC Contact: Peter Osborn 410-962-0702</li> <li>• NHI Contact: Larry Jones 703-235-0523</li> </ul>	<p><b>Peter Osborn - FHWA-RC</b></p> <p><b>Rich Barrows - FHWA - WFLHD</b></p> <p><b>Chris Newman - FHWA-HIAM</b></p> <p><b>Tony Allent – WSDOT</b></p> <p><b>Chris Benda – VTAOT</b></p> <p><b>James Brennan – KSDOT</b></p> <p><b>Jerry DiMaggio – FHWA – HIBT</b></p> <p><b>Bob Gladstone – AMSE</b></p> <p><b>Pete Gonzalez – FHWA – WFLHD</b></p> <p><b>William Kwasny – GME Consultants</b></p> <p><b>Kerry Petrasic – PennDOT</b></p> <p><b>Sastry Putcha – FL DOT</b></p> <p><b>John Paulson – Geosynthetics Consl.</b></p>

<p style="text-align: center;"><b>Managing Construction Workmanship 134055</b></p> <p>This training effort is a short course on construction workmanship for inspectors, project engineers, foreman and superintendents. The target audience includes FHWA, SHA and industry personnel. The course is aimed at improving workmanship decision making for quality highway construction projects. The intention of this course is not to replace the individual training SHA's are doing but rather establish a knowledge baseline for construction managers on a national level. The first phase of course development, preparing a course outline, target audience, and course objectives, is complete. This contract will take the results of Phase I and work closely with the technical panel to develop course materials. The kickoff meeting for the course development was held August 20, 2004. The preliminary lesson plans were developed in January 2005 and it is expected that the walk through will take place in August 2005 with a pilot in September 2005.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Lee Onstott</b> - NMSHTD</p> <p><b>Bill Beuter</b> - VDOT</p> <p><b>Peter Osborn</b> - FHWA – NRC (Baltimore)</p> <p><b>Alan Samuels</b> - AZDOT</p> <p><b>Gene Wortham</b> - ITD</p> <p><b>Rob Elliott</b> - FHWA – NRC (Atlanta)</p>
<p style="text-align: center;"><b>Partnering for Improved Construction Quality 134060</b></p> <p>This course will be based on the current training course being used by Washington State DOT and others being used for claims mitigation. The NHI training course will focus on improved product delivery through partnering. The focus of this course will be built upon the success of the “Get In Get Out and Stay Out” philosophy. The development task has been awarded to Trauner. The preliminary lesson plan (PLP), required by NHI, was recently accepted and approved by members of the technical panel and the NHI. The contractor was given notice to proceed with tentative schedule to conduct the pilot course towards the end of this year.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Celso Gatchalian 202-366-1342</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Bobby Templeton</b> - NPHQ</p> <p><b>Kevin Dayton</b> - WSDOT</p> <p><b>Bridgid Seering</b> - MDSHA</p> <p><b>Celso Gatchalian</b> - FHWA-HIAM</p> <p><b>Ken Jacoby</b> - FHWA-HIAM</p> <p><b>Ginger Murdough</b> – AZ DOT</p> <p><b>Judonne Greham</b> – AZ DOT</p>
<p style="text-align: center;"><b>Field Structural Coatings Inspection Certification Course</b></p> <p>During the winter of 2001/2002, an Expert Task Group (ETG) was established to guide the development of this course. The ETG is comprised of representatives from 8 State DOTs, SSPC, and FHWA. It is envisioned that the "course" will likely be a basic level course providing a baseline certification. Other course modules dealing with various specialty topics in coatings (lead paint removal, abrasive blasting, high pressure water blasting, metalizing, 100% solids coatings, shop coatings, etc.) will be subsequently developed. The development of the basic curricula and certification requirements is the initial goal of the ETG and 2-3 pilot training courses are scheduled to be presented during the summer of 2005. It is expected that The Society for Protective Coatings (SSPC) will also offer this course to the industry and will be the organization that grants and</p>	<p><b>Mike Praul</b> - FHWA-ME</p> <p><b>Bob Kogler</b> - FHWA-TFHRD</p> <p><b>Larry O'Donnell</b> - FHWA-RC</p> <p><b>Dan Brydl</b> - FHWA-IL</p> <p><b>Mike Leote</b> - Triborough Bridge</p>

<p>maintains the actual certification. This certification program has already received widespread buy-in from the SHA community and industry stakeholders.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Bob Kogler 202-493-3080</li> <li>• FHWA Contact: Mike Praul 207-622-8350 ext. 109</li> <li>• NHI Contact: Larry Jones 703-235-0523</li> </ul>	<p>&amp; Tunnel Auth  <b>Brian Castler</b> - CTDOT  <b>Heather Gilmer</b> - TXDOT  <b>Chris Peoples</b> - NCDOT  <b>Derrick Castle</b> - KYDOT  <b>Andy Rogerson</b> - CalTrans  <b>Gary Kowalski</b> - ILDOT</p>
<p style="text-align: center;"><b>Quality Assurance Technologist Certification Course</b></p> <p>This course presents QA principles at an instruction level intended for the construction team and geared for application to improving material quality for the project. The materials have undergone extensive peer review and are available for distribution for use by other States. FHWA and NHI will work on the materials through the Fasttrack program to adopt it as an NHI course.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Ken Jacoby 202-366-6503</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Bruce Wasill</b> - FHWA - CFL  <b>Greg Doyle</b> - FHWA- MA  <b>Greg Schiess</b> - FHWA-FL  <b>Ken Jacoby</b> - FHWA - HIAM  <b>Woody Hood</b> - MD SHA  <b>Rick Kreider</b> - KS DOT  <b>Chris Abadie</b> - LA DOT  <b>Mike Rafalowski</b> - FHWA-HIPT  <b>Alan Samuals</b> - AZDOT</p>
<p style="text-align: center;"><b>Bridge Rehabilitation</b></p> <p>The FHWA is leading an effort to improve the quality of highway facilities by developing a training program for bridge rehabilitation. The ultimate goal of this effort is the development of a nationally accepted program that will serve to improve quality, ensure uniformity and establish a minimum standard for bridge rehabilitation. The course will present innovative and state-of-the-art bridge rehabilitation technologies and procedures for a broad array of structural elements including bridge decks, girders, piers and abutments. Expect to issue</p>	

<p>RFP for course development in late June 2005.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Tom Everett 202-366-4675 Chris Newman 202-366-2023</li> <li>• Resource Center Contact: Shoukry Elnahar 410-962-2362</li> <li>• NHI Contact: Larry Jones 703-235-0523</li> </ul>	
<p style="text-align: center;"><b>Subsurface Investigation Inspection</b></p> <ul style="list-style-type: none"> <li>• This module will cover the inspection of subsurface explorations. Topics will include: Soil Borings, Rock Coring, Standard Penetration Test (SPT), proper sampling and handling procedures, Safety, In-situ testing techniques, basic instrumentation. The contract for development was awarded to Parsons in June 2004. The technical panel met on December 14, 2004 to review preliminary lesson plans and visuals met again in January 2005 for a technical walk through. A pilot presentation was held in April 2005; final deliverables are expected in June 2005. NHI is now accepting course requests.</li> <li>• FHWA/NRC Contact: Peter Osborn 410-962-0702</li> <li>• NHI Contact: Larry Jones 703-235-0523</li> </ul>	<p><b>Peter Osborn -</b> FHWA-RC</p> <p><b>Ben Rivers -</b> FHWA-RC</p> <p><b>Chris Newman -</b> FHWA-HIAM</p> <p><b>Chris Benda –</b> Vermont AOT</p> <p><b>Brian Bixler –</b> Florida DOT</p> <p><b>Tim Cleary –</b> Gregg Drilling</p> <p><b>Mike Fritz -</b> Missouri DOT</p> <p><b>Bill Kwasny</b></p> <p><b>Steve Narkiewicz -</b> Oregon DOT</p> <p><b>Mark Salazar –</b> Nevada DOT</p> <p><b>Don Speiker –</b> Minnesota DOT</p> <p><b>Mickey Wilson –</b> South Carolina DOT</p> <p><b>Mark Wolcott –</b> Maryland SHA</p>

UPCOMING COURSES	TECHNICAL PANEL
<p align="center"><b>Improved Construction Program Management for FHWA and SHA's</b></p> <p>This is a proposed NHI course on effective construction program management techniques. Course materials under development by CQIT team.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Ken Jacoby 202-366-6503</li> <li>• NRC Contact: Joe Huerta 410-962-2298</li> </ul>	<p><b>Ken Jacoby</b> - FHWA-HIAM</p> <p><b>Jeff Lewis</b> - CA Division</p> <p><b>Joe Huerta</b> -</p>
<p align="center"><b>Dust and Noise Abatement</b></p> <p>This will be training concerning techniques for minimizing and controlling dust and noise pollution created as a result of construction operations. The course will present design techniques and technological solutions.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• NRC Contact: Bob Orthmeyer 708-283-3533</li> </ul>	<p><b>Larry Scofield</b> - AZDOT</p> <p><b>Ryan Rizzo</b> - FHWA-MI</p> <p><b>Bob Orthmeyer</b> - FHWA- RC</p>
<p align="center"><b>Contract Maintenance Concepts</b></p> <p>Short Course to follow recently revised AASHTO Guide on Contract Maintenance. Scope of work under development.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Lubin Quinones 787-766-5600 Ext. 223</li> <li>• SHA Contact: Jim Carney (MODOT)</li> </ul>	<p><b>Lubin Quinones</b> - FHWA-PR</p> <p><b>Jim Carney</b> - MODOT</p> <p><b>Ed Sheldahl</b> - FHWA-DC</p>
<p align="center"><b>Understanding Benchmarking and Performance Measures</b></p> <p>No action had been taken yet on this proposed course. Scope of work under development.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Jim Sorenson 202-366-1333</li> <li>• SHA Contact: Mike Bousliman (MTDOT)</li> </ul>	
<p align="center"><b>QA Specifications Development and Validation</b></p> <p>A Technical Panel has been established and has met several times to develop an RFP for the course development. The panel is currently awaiting the Beta version of ongoing QA software that will be used with this course. It is expected that the RFP will be submitted early Summer 2005.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Ken Jacoby 202-366-6503</li> <li>• NRC Contact: Gene Hoelker 708-283-3520</li> </ul>	<p><b>Ken Jacoby</b> FHWA-HIAM</p> <p><b>Mike Rafalowski</b> FHWA-HIPT</p> <p><b>Peter Kopac</b> Inf R&amp;D</p>

<p style="text-align: center;"><b>Work Zone Traffic Control Short Courses</b></p> <p>NHI held a meeting in March 2004 with the FHWA Offices of Safety and Operations, as well as with TCCC representatives, to discuss the overall curriculum of work zone training for various audiences. The end result will be the development of several courses through NHI.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Ben Gribbon 202-366-1809</li> <li>• NHI Contact: Bill Williams 703-235-0539</li> </ul>	<p><b>Ben Gribbon -</b> FHWA-OHS</p> <p><b>Donna Clark -</b> ATSSA</p> <p><b>Jack Cowser -</b> NCDOT</p>
<p style="text-align: center;"><b>Highway Maintenance Quality Assurance for State and Local Agencies</b></p> <p>This short course will be developed using the outcome and results of the NCHRP Project 14-12 completed in 1998 by ERES Consultants. This course will educate governmental agencies on how to evaluate the Level of Service (LOS) being provided by maintenance forces in comparison to the LOS targeted by the agency or expected by its customers. In addition, the quality assessment process will allow an agency to benchmark maintenance levels at the time LOS monitoring begins, thereby providing a numerical point of reference for evaluating maintenance conditions over time. RFP is under development.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Jim Sorenson 202-366-1333</li> <li>• NHI Contact: John Taylor 703-235-0524</li> </ul>	<p><b>Celso Gatchalian -</b> FHWA-HIAM</p> <p><b>Alison Lebwohl -</b> WisDOT</p> <p><b>Rico Baroga -</b> WSDOT</p> <p><b>Mike Bousliman -</b> MTDOT</p>
<p style="text-align: center;"><b>Structural Bolting Course</b></p> <p>A High Strength Bolting Course for the installers of Bolted Connections for Structural Steel, Overhead Traffic Structures, Guide Rail and other Miscellaneous Structures. This course will cover identification of bolt, nut and washer manufacturer, bolt/nut/washer designations, condition as received on project and the various equipment and methods used to assure the proper torque. Course can be used as a Training Course or to Certify Installers as required by agencies.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> </ul>	<p><b>Woody Hood -</b> MDSHA</p>
<p style="text-align: center;"><b>Concrete Construction Inspector</b></p> <p>The TCCC is currently exploring the formation of a new technical panel (including ACPA) to determine priorities in the development of core materials / curriculum for concrete paving inspector certification.</p> <ul style="list-style-type: none"> <li>• FHWA Contact: Chris Newman 202-366-2023</li> <li>• NRC Contact: Mike Arasteh 410-962-0678</li> </ul>	<p><b>Mike Arasteh -</b> FHWA-NRC</p> <p><b>Woody Hood -</b> MDDOT</p>