

LEARNING IN PROGRESS

Improving the Performance of the Transportation Industry Through Training
JUNE 2015

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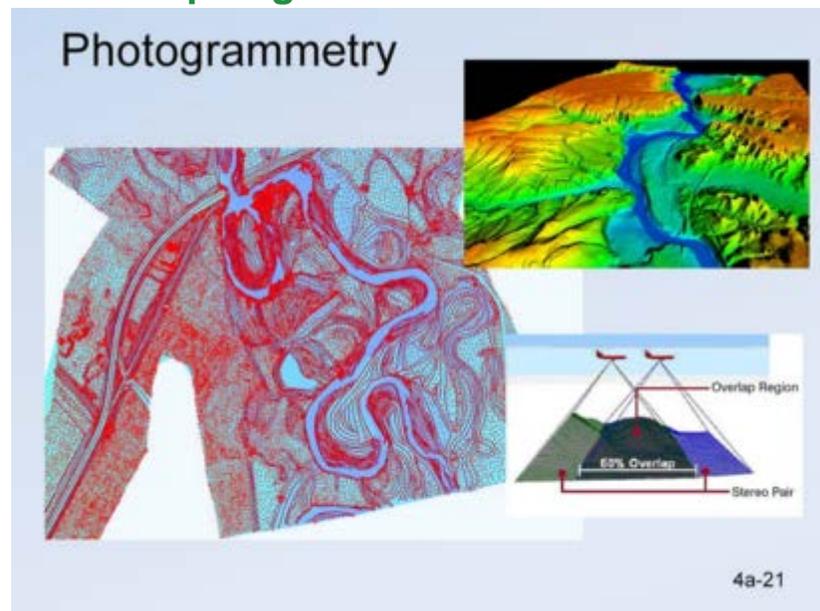
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Course Spotlight



Photogrammetry, a common method for collecting and processing elevation data for 2D hydraulic models, will be discussed in course 135095 alongside other methods.

FHWA-NHI-135095 Two-Dimensional Hydraulic Modeling of Rivers at Highway Encroachments

This course provides a well-balanced mix of lessons, demonstrations, and exercises for a comprehensive introduction to two-dimensional modeling concepts. Upon completion of the course, participants will be able to:

- Recognize the differences between 1D and 2D hydraulic models
- Use background data in SMS for 2D modeling projects

- Use SMS to setup and run 2D models
- Visualize and review 2D model results
- Add structures to 2D models
- Evaluate 2D hydraulic parameters for use in bridge scour analysis

Key concepts will be demonstrated and participants will be given hands-on exercises to apply what they have learned. Once all modeling concepts are covered a comprehensive exercise is provided for participants to apply their skills on a project from start to finish.

This course is recommended for any Federal, state, local or consulting engineers who work with the hydraulics analysis and design of highway river crossings, and for Federal Highway Administration and State Department of Transportation hydraulics personnel.

For more information on this course, or to host a session, visit nhi.fhwa.dot.gov.

Hosting Responsibilities

In an effort to more clearly identify roles and responsibilities of its hosts, NHI has updated its hosting information resources. This new document details NHI's responsibilities to hosts, host responsibilities to NHI and course participants, and addresses various types of course participants and how their enrollment may affect the duties of the host. Policies on pricing and fees, scheduling, inclement weather and cancellation procedures are also addressed.

Key policies include:

- Host requests for public seats: Public seats are sold through the NHI website on a first-come, first-served basis to anyone interested in participating in a session. Hosts may request public seats to reach class size minimums, or increase the diversity of participant experience in a classroom. Public seat registration closes three business days before the course start date.
- Course minimums and fees: To host a session, hosts are charged the per-participant price multiplied by the class-size minimum, or the host is charged per participant if the session class size exceeds the minimum. Pricing cannot be reduced if the minimum class size is not met. Therefore, if registration for a course is lower than

anticipated, it is important for the host to contact NHI prior to the cancellation period (15 business days) to discuss a remedy. Please note that with sufficient notice, NHI may be able to offer marketing support for your session.

- Course cancellations and weather emergencies: If the host cancels a session (outside of an emergency situation), the host is required to contact NHI. Cancellation must be requested no later than 15 business days prior to the course start date to avoid cancellation charges. In the case of an emergency or weather-related closing, the session cancellation fee will not apply. NHI follows the local host office's policy for inclement weather and emergencies.

For more information on hosting a course, visit the NHI website at www.nhi.fhwa.dot.gov.

Upcoming Instructor Development Courses

[FHWA-NHI-420018A Instructor Development Course \(4.5-Day\)](#)

July 13 – 17, 2015 | Matteson, IL

September 14 – 18, 2015 | Arlington, VA

Additional Instructor Development Courses are coming to Reno, Olympia, and Orlando in August and September. Want to know when new courses are scheduled? [Sign up to receive session alerts](#) directly to your email.

Reminder! Complete Your Web-based Training

NHI began charging a small fee for some WBT at the beginning of this year. Participants who are enrolled in a WBT now have six months from the date of purchase to complete the class. If a participant does not finish the course within the six-month period, he/she will be required to reenroll in the course to restart the training and pay any associated course fees.

Participants can find the number of days remaining to complete a specific course on [the "My Training" page](#) on the NHI Web site.

New and Updated Courses

Latest Instructor-led Courses

Construction and Maintenance

[134001 Principles and Applications of Highway Construction Specifications](#)

[134006 Utility Coordination for Highway Projects](#)

Highway Safety

[380118 Integrating Geometric Design & Traffic Control for Improved Safety](#)

Hydraulics

[135090 Hydraulic Design of Safe Bridges](#)

Latest Web-based Courses

Structures

[130103 Post-Tensioning Tendon Installation and Grouting](#)

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