

LEARNING IN PROGRESS

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COURSE SPOTLIGHT

Strut-and-tie Modeling (STM) for Concrete Structures (course number 130126) is a new 1.5-day Instructor-led Training that serves as a primary source of reference material for STM applications for bridge engineers.

STM is a technique that is commonly used to reduce complex states of stress in reinforced and prestressed concrete structures into a simplified truss model. STM provide designers with an easy-to-use analysis tool for D-(disturbed or discontinuity) regions that would otherwise require a more complex analysis such as finite element analysis (FEA).

Improperly designed D-Regions have resulted in many in-service cracking issues. Strut-and-tie modeling requires the designer to visualize and understand the internal load paths and stress fields which in turn, along with

the STM design provisions, promotes good overall element sizing and reinforcement detailing.

Learn more about this course, register to host a session, or sign up for session alerts on the course description page.

[Learn More](#)

JUST LAUNCHED

NHI relies on local agencies to hold Instructor-led and Web-conference Training throughout the year. Take a look at the newly launched training below, and consider bringing this training directly to your organization by hosting a session.

- [Financial Planning for Transportation Asset Management](#) (Instructor-led Training): Participants in this 1.5 day course develop a financial plan outline to help them better manage assets, leverage funding, and communicate the relationship between funding and performance of transportation assets to stakeholders.
- [Conducting Effective Program Reviews](#) (Instructor-led Training): Recently updated to provide a more focused step-based approach to the program review process, this 2-day workshop provides instruction, consultation, and hands-on assistance in the methodology and tools for conducting program reviews that get results.

[Host a Training](#)

You can also sign up for alerts when new sessions are scheduled by visiting the course description page.



NEW & UPDATED: THIS YEAR

NHI is always releasing new courses and updating our existing offerings based on new technologies, best practices and industry advancements. Take a look at the latest course listings and select from the links below to browse a specific program area.

[Asset Management](#)

Introduction to Transportation Asset Management with Workshop
Developing a Transportation Asset Management Plan
Risk Management

[Environment](#)

Fundamentals of Environmental Justice

[Geotechnical](#)

Soil Nail Walls

Ground Modification Methods (3 versions available)

[Highway Safety](#)

Speed Management

[Hydraulics](#)

SRH-2D Model Data files, Diagnostics & Verifying 2D Model Results

Model Terrain Development with Various Data Sources

Hydraulic Toolbox

[Structures](#)

Strut-and-Tie Modeling (STM) for Concrete Structures

Safety Inspection of In-Service Bridges for Professional Engineers

Design and Evaluation of Bridges for Fatigue and Fracture

Tunnel Safety Inspection Refresher Prerequisite

Fundamentals of Bridge Maintenance

[Transportation Performance Management](#)

Transportation Performance Management for Pavements

The Role of Data in Transportation Performance Management

[See All Courses](#)

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