

**COURSE NUMBER**

FHWA-NHI-133109

COURSE TITLE**Strategies for Developing Work Zone Traffic Analyses**

Strategies for Developing Work Zone Traffic Analyses is offered as a one-day instructor-led course utilizing lecture and small-group collaborative exercises to educate participants on how to develop effective transportation modeling strategies to support work zone-related decision-making. There is no hands-on computer based modeling work conducted in this course; rather it deals with developing analysis plans that combine people, data and tools to address work zone issues. The course is designed to cover:

Characterizing a work zone with respect to a prospective analysis

Classes of analytical tools and their capabilities within the context of work zones

Selecting an appropriate transportation modeling approach maximizing insight into potential impacts and mitigating technical risk

The course includes lecture, full-group interaction, and small group activities. The purpose of the course is three-fold. First, it will educate the participants regarding the constraints and opportunities of work zone analysis associated with available transportation modeling tools. Second, it will build familiarity for the participants with the various work zone factors influencing the development of a transportation analysis plan. Third, it will provide the participants with practical experience in developing analysis plans in a collaborative process considering issues ranging from work zone characteristics, performance measurement, technical risk assessment and resource constraints.

OUTCOMES

Upon completion of the course, participants will be able to:

- Define the need, scope, and role of work zone modeling and analysis
- Describe the work zone analysis decision-making engine and the interactions among scheduling, application, and transportation management plan decisions
- Explain how to characterize a work zone
- Identify the transportation modeling approaches available for work zone analysis
- Discuss how a transportation modeling approach can be used given a set of work zone characteristics
- Justify the selection of transportation modeling approach

TARGET AUDIENCE

A mix of experience with traffic analysis tools and work zone planning among participants is preferred. No prior experience with traffic analysis tools is required. The course is designed to promote interactions between participants. Therefore, the group is likely to benefit from a variety of viewpoints if participants have varied levels of analytical experience and diverse agency affiliations. The group may include: State Department of Transportation Staff (District Engineers, Corridor Planners, Project Eng., Traffic Eng., Work Zone Planners) FHWA staff (Division Staff, Transportation Engineers, Traffic Staff, Planners) Metropolitan Planning Organization Staff (Planners) Consultants

TRAINING LEVEL: Basic

FEE: 2016: \$275 Per Person; 2017: \$275 Per Person

LENGTH: 1 DAYS (CEU: .6 UNITS)

CLASS SIZE: MINIMUM: 12; MAXIMUM: 30

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