

**COURSE NUMBER**

FHWA-NHI-133120

**COURSE TITLE****Work Zone Traffic Analysis Applications and Decision Framework**

Work Zone Traffic Analysis - Applications and Decision Framework is a two-day instructor-led course utilizing lecture and group collaborative exercises to provide guidance on work zone traffic analysis applications and decision framework. It will help work practitioners in understanding the analytical methods involved in conducting a work zone traffic analysis. This course is designed to cover establishing a work zone traffic analysis process; step-by-step guidance on determining the most suitable tools to perform a work zone analysis; key considerations when applying various modeling tools for work zone traffic analysis; a decision framework on how to select the best alternatives based on a set of performance measures; essential components of work zone traffic analysis report and a variety of case studies to demonstrate a diverse set of work zone traffic analysis applications.

The course provides an overview of the Federal Highway Administration's guidebook titled "Traffic Analysis Toolbox XII - Work Zone Traffic Analysis - Applications and Decision Framework." Work Zone Traffic Analysis (WZTA) is the process of evaluating and determining the mobility and safety impacts within a transportation construction, maintenance, or rehabilitation project. The purpose of the course is to provide participants an understanding of the analytical methods involved in conducting and developing a WZTA as well as direction on where to go for more information.

**OUTCOMES**

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

- Establish a work zone traffic analysis process
- Select the appropriate tool for work zone traffic analysis
- Identify and assess key considerations for modeling approach
- Apply modeling tools to work zone traffic analysis
- Apply road user costs
- Reconcile inconsistencies and conduct sensitivity analysis
- Establish a MOTAA decision framework
- Develop analysis report structure

**TARGET AUDIENCE**

Engineers, planners, modelers, and others responsible for framing a work zone traffic analysis, those who decide on and use work zone traffic analysis tools for which zone strategies to implement, and decision-makers considering work zone traffic analysis. These include State DOT staff, FHWA staff, Metropolitan Planning Organization staff, and consultants. This course is designed for those individuals seeking to supplement and expand their basic knowledge and understanding of work zone traffic analysis. This is a mid-level course and it focuses heavily on the analysis tools and methods for work zone traffic analysis and case study examples.

**TRAINING LEVEL:** Intermediate

**FEE:** 2018: \$600 Per Person; 2019: \$600 Per Person

**LENGTH:** 2 DAYS (CEU: 1.2 UNITS)

**CLASS SIZE:** MINIMUM: 20; MAXIMUM: 30

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