

**COURSE NUMBER**

FHWA-NHI-380118

COURSE TITLE**Integrating Geometric Design & Traffic Control for Improved Safety**

This course provides an overview of the inter-relationship of geometric design and traffic control device applications. The primary focus of the course concerns interchange areas where lane elimination, lane configurations, and traffic control devices on freeways and expressways may present challenges for both designers and motorists. This course addresses lane balance effects, degree of control (markings) practices, arrows (signs and markings) usage, advance vehicle positioning, short auxiliary lanes, and geometric design influences on signing and marking. This course includes discussion and guidance for meeting driver expectations and the human factors associated with roadway geometry and the application, selection, and placement of traffic control devices. Participants engage in group exercises to strengthen and apply the principles covered in the workshop.

OUTCOMES

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

- o Identify Human Factors concepts
- o Compare and evaluate lane configuration designs and methods of lane elimination
- o Explain the role of TCDs (signs and pavement markings)
- o Identify the basic signing and marking concepts, types and purposes from the MUTCD
- o Describe the flexibility and interdependence of geometric and traffic control design .

TARGET AUDIENCE

Engineers, engineering practitioners, technologists, and engineering assistants involved in freeway and expressway design, construction, and operations including Sections such as Roadway Design, Traffic Engineering, District personnel with responsible charge of plan review of TCDs (striping, signing, other markings), plan preparation, development/revision of standards for the same and Consultant Management staff, as well as consultants performing work on such projects and/or related duties.

TRAINING LEVEL: Intermediate

FEE: 2016: \$310 Per Person; 2017: \$310 Per Person

LENGTH: 1 DAYS (CEU: .6 UNITS)

CLASS SIZE: MINIMUM: 20; MAXIMUM: 30

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