



Fundamentals of Planning, Design, and Approval of Interchange Improvements to the Interstate System

Instructor-led Training

This course provides participants with a basic knowledge of freeway systems and interchange types, FHWA policy on justification for interchange access approval, and applications of technical knowledge and policy understanding to interchange project decisions. Topics covered in this course include service and system interchange types, 8-point interchange justification process, interchange study and selection process, fundamentals of freeway system operations and planning, urban freeway diagnosis, geometric design considerations, and technical and documentation procedures.

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

- Compare and contrast design and operational attributes of different of freeway interchange types
- Interpret and apply the elements of the FHWA Policy for approving Interstate access
- Describe and apply principles of good freeway systems and interchange design
- Describe the application of design exceptions to interchange project decisions
- Describe the content of an appropriate safety and operational analysis to support an access request
- Compare alternative designs based upon an assessment of appropriate measures of effectiveness (MOEs)
- Apply an interchange design study procedure

TARGET AUDIENCE: Traffic engineers and transportation professionals with one to five years of working experience.

TRAINING LEVEL: Accomplished

LENGTH: 3 days

CEU: 1.8 Units

FEE: \$400 per participant

CLASS SIZE: Minimum: 20; Maximum: 30

REGISTRATION: To host a session of an NHI course, go to the NHI Web site at www.nhi.fhwa.dot.gov and select the "Host a Course" link, then complete the "Host an Instructor-led Training (ILT) Course" form. After the form is received, an instructor will contact the local coordinator to schedule the session. Requested dates may be shown on the form; however, scheduling is subject to instructor availability. All confirmed sessions are listed on the NHI Web site by date and course number.

NHI Training Information: NHI Scheduler • (703) 235-0534 • E-mail nhitraining@dot.gov

Subject Matter Contact: Mark Doctor • (404) 562-3732 • E-mail mark.doctor@dot.gov

NHI Training Program Manager: Tom Elliott • (703) 235-0319 • E-mail thomas.elliott@dot.gov



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