

**COURSE NUMBER**

FHWA-NHI-151018

**COURSE TITLE****Application of the FHWA Traffic Monitoring Guide**

This training covers the application of procedures used as published in the FHWA's "Traffic Monitoring Guide" (TMG) and other recent developments in traffic monitoring, including:

- An overview of the application of the TMG procedures to develop data and information needed to support State and national programs including the Highway Performance Monitoring System (HPMS), pavement management, safety management, congestion management, and environmental management
- Discussion between users and producers of traffic information from users perspective
- Discussion with attendees on specific issues that impact the application of the TMG procedure in traffic counting, vehicle weighing, etc.
- Discussion of automated procedures for data collection and analysis and presentation of examples
- Discussion of the AASHTO guidelines for traffic monitoring and the coordination of data collection to other Federal and national programs
- Discussion of Traffic Monitoring System required in Intermodal Surface Transportation Efficiency Act (ISTEA)

**OUTCOMES**

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

- Describe the purpose and appropriate use of the TMG procedures
- Use the procedures for obtaining data for Federal and State programs
- Apply the data obtained to answer specific questions on Federal and State issues regarding traffic monitoring

**TARGET AUDIENCE**

FHWA field office planners and State transportation or planning personnel responsible for or interested in traffic counting, vehicle classification, or truck weight data programs, and the users of the traffic information including the Highway Performance Monitoring System (HPMS), pavement management, safety management, congestion management, and environmental management.

**TRAINING LEVEL:** Beginner

**FEE:** \$320 Per Person

**LENGTH:** 2.0 DAYS (CEU: 1.2 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Harshad Desai • (202) 366-5047 • [harshad.desai@fhwa.dot.gov](mailto:harshad.desai@fhwa.dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)



## COURSE NUMBER

FHWA-NHI-151021

## COURSE TITLE

### Administration of FHWA Planning and Research Grants

This training covers the responsibilities of and relationships among Federal, State, and local agencies involved in the administration of FHWA planning and research funds to States and State subgrants to metropolitan planning organizations (MPO) and local governments. It provides a forum for discussion of the Federal requirements associated with the administration of FHWA planning and research funds.

Included among the topics are current relevant regulations and administrative directives; Office of Management and Budget Circulars; 49 Code of Federal Regulations Part 18, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments (USDOT's implementation of the Common Grant Rule); and 23 Code of Federal Regulations Part 420 (FHWA's Planning and Research Program Administration). In addition, the training touches on allowable costs, cost allocation plans, and audit requirements.

## OUTCOMES

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

- Identify basic principles of grant administration
- Explain terminology associated with grant administration
- Define the roles and responsibilities of those involved in grant administration
- Define the basic principles of Federalism in the Common Grant Rules
- Describe the hierarchy of laws, regulations, requirements, and the relationships among them
- Identify laws and regulations for administration of FHWA planning and research funds
- Apply Federal laws and regulations to administer grant funds
- Identify basic cost principles
- Identify basic audit requirements
- Locate the most current resource materials

## TARGET AUDIENCE

FHWA, State departments of transportation, MPOs, and other agency staff, including planning and fiscal staff who expend or administer FHWA planning and research funds. To foster the objective of cooperation among all affected parties, we strongly encourage participation by staff from multiple agencies.

**TRAINING LEVEL:** Beginner

**FEE:** \$320 Per Person

**LENGTH:** 2.0 DAYS (CEU: 1.2 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Kenneth Petty • (202) 366-6654 • [kenneth.petty@fhwa.dot.gov](mailto:kenneth.petty@fhwa.dot.gov)

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**COURSE NUMBER**

FHWA-NHI-151038

**COURSE TITLE****Statewide Transportation Planning**

The training is a collaborative effort among the Federal Highway Administration (FHWA) Office of Planning, the National Highway Institute (NHI), the Federal Transit Administration, the National Transit Institute, and various statewide planning, transit, and industry representatives to develop a basic, yet comprehensive training that will serve as an introduction to statewide transportation planning. The overall training objective is to provide participants with the necessary knowledge and skills for them to participate constructively in the statewide transportation planning process.

**OUTCOMES**

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

- Explain how Federal laws and regulations shape the statewide planning process and how they relate to differing State and local requirements
- Describe the major elements of a statewide transportation plan
- List the players, their roles, and the issues involved in the statewide transportation planning process
- List the required products of the statewide transportation planning process
- Discuss the variety of methods, techniques, and strategies used to implement a transportation plan
- Recognize how evaluation methods and performance measures are used in the statewide transportation planning process
- Recognize noteworthy statewide planning processes

**TARGET AUDIENCE**

New planners (recent graduates without a transportation background); urban planners; State departments of transportation staff who are actively involved in statewide planning; engineers who are assigned planning duties but lack academic background in planning; metropolitan planning organization staff; rural/regional planning organization staff; regional development commissions staff; transit agency staff; Federal resource or regulatory agencies, such as the U.S. Environmental Protection Agency; the FHWA Federal Lands Highway Division; tribal governments; college graduates without planning degrees; and consultants involved in transportation planning activities.

**TRAINING LEVEL:** Beginner**FEE:** \$320 Per Person**LENGTH:** 2.0 DAYS (CEU: 1.2 UNITS)**CLASS SIZE:** MINIMUM: 20; MAXIMUM: 30**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)**Subject Matter Contact:** Jody McCullough • (202) 493-2825 • [jody.mccullough@dot.gov](mailto:jody.mccullough@dot.gov)**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)

*View the new and updated courses on the NHI Web site home page.*



## COURSE NUMBER

FHWA-NHI-151039

## COURSE TITLE

### Applying GIS and Spatial Data Technologies to Transportation

FHWA developed this training in cooperation with the Bureau of Transportation Statistics, to train participants in how to implement transportation planning applications that rely on spatial data technologies. This course describes examples of applications using today's major spatial data technologies and discusses various aspects of the applications such as the level of effort for development, technological challenges, training needs, and evaluation measures. Particular emphasis is placed on crosscutting implementation issues, both technological and organizational. Exercises focus on using spatial data technologies in an environment where data sharing and cooperative agreements are essential components for success. Reflecting NHI's commitment to learner-centered training, the training offers participants opportunities for discussion and joint problem solving through which they will gain information about the roles and responsibilities of other team members.

The overall training goal is to prepare participants to evaluate and plan for the implementation of a variety of transportation planning applications that rely on spatial data technologies.

## OUTCOMES

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

- Recognize and list emerging/current spatial data technologies
- List the benefits and limitations of each technology
- Benchmark the trends in terms of high, medium, and low risk for implementation
- List reasons a transportation planner would want to apply the technology
- Describe specific examples of applications utilizing spatial data technologies in transportation decisionmaking
- Identify common obstacles when implementing each technology
- Recognize the value of both internal and external cooperative efforts when implementing the technologies

## TARGET AUDIENCE

Participants should have a basic understanding of geographic information systems (GIS). Various professional users of spatial data technologies from State departments of transportation, metropolitan planning organizations, county/city governments; professional staff from State/Federal agencies that have cooperative efforts with other agencies such as environmental data warehouses (e.g., Florida, North Carolina, etc.), transit agencies, airport/port authorities, and consultants.

**TRAINING LEVEL:** Intermediate

**FEE:** \$320 Per Person

**LENGTH:** 2.0 DAYS (CEU: 1.2 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Mark Sarmiento • (202) 366-4828 • [mark.sarmiento@fhwa.dot.gov](mailto:mark.sarmiento@fhwa.dot.gov)

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## COURSE NUMBER

FHWA-NHI-151043

## COURSE TITLE

### Transportation and Land Use

The training is designed to help practitioners develop a multimodal transportation system that supports desired land uses and helps them shape land uses to support the transportation system. Course lessons include the principles of transportation and land use; the processes through which transportation and land use issues can be jointly addressed; and implementation steps to ensure that transportation and land use systems are designed in a compatible, mutually supportive manner.

This is a new NHI training, developed in cooperation with the FHWA and FTA Offices of Planning, EPA and the National Transit Institute. Representatives from academia, the transit industry, metropolitan planning organizations and State departments of transportation served on the technical panel.



## OUTCOMES

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

- Explain how transportation decisions affect land use, growth patterns and related community impacts on both regional and local scales
- Explain how land use patterns affect peoples' travel patterns and the overall performance of the transportation system
- Describe the various transportation planning processes, including statewide planning, metropolitan planning, corridor planning/alternatives analysis, the NEPA process, subarea planning, and project development, and how land use considerations can be integrated into these processes
- Describe local comprehensive planning and land use regulatory activities, and how the process and outcomes of these activities can support local and regional transportation objectives
- Identify the full range of stakeholders including public agencies, private and nonprofit organizations, and the general public, who should be involved in transportation and land use planning and decisionmaking, and describe methods for involving these stakeholders
- Describe methods that are available for implementing coordinated transportation and land use strategies
- Identify analytical tools that are available for measuring and forecasting the impacts of transportation and land use decisions

## TARGET AUDIENCE

Primary: Mid-level State DOT employees, City and County engineers and planners, MPO staff, transit operators, Federal employees (FHWA, FTA, EPA), resource agency staff, consultants. Secondary: Elected officials, regulatory agency staff, local zoning officials, site designers, citizen activists, developers, media representatives and business leaders.

**TRAINING LEVEL:** Intermediate

**FEE:** \$420 Per Person

**LENGTH:** 3.0 DAYS (CEU: 1.8 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Jody McCullough • (202) 366-2825 • [jody.mccullough@fhwa.dot.gov](mailto:jody.mccullough@fhwa.dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)



## COURSE NUMBER

FHWA-NHI-151044

## COURSE TITLE

### Traffic Monitoring and Pavement Design Programs

NHI and The Office of Highway Policy Information provide this online presentation, at no cost, as part of a broadbrush effort to increase collaboration between Traffic Monitoring Program staff and Pavement Program staff.

The goal of this FREE online presentation is to promote interaction and collaboration between traffic monitoring program staff and pavement program staff. The presentation supports implementation of the new Mechanistic Empirical Pavement Design Guide (MEPDG). FHWA's Office of Highway Policy Information, in collaboration with the Design Guide Implementation Team (DIGI Team), created this presentation to help ensure that pavement data needs are met with the existing traffic monitoring program or adjustments to the program.

Please note that the Flash Player must be installed on your computer in order to view the presentation.



## OUTCOMES

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

- Describe the traffic monitoring program
- Describe the pavement design program, as it relates to traffic monitoring
- Explain the interconnectivity and interdependency between the traffic monitoring and pavement design programs
- Identify ways to make the best use of available funding to meet users' data needs

## TARGET AUDIENCE

Federal and State department of transportation specialists, designers, and administrators who are responsible for traffic monitoring and pavement programs. Local transportation agencies, as well as those who are new to the traffic program and pavement programs, may also find this presentation to be interesting and helpful.

**TRAINING LEVEL:** Beginner

**FEE:** FREE

**LENGTH:** 1.0 HOURS (CEU: 0.0 UNITS)

**CLASS SIZE:** MINIMUM: 1; MAXIMUM: 1

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Harshad Desai • (202) 366-5047 • [harshad.desai@dot.gov](mailto:harshad.desai@dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)



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Call (703) 235-0556 or e-mail [nhiwebmaster@dot.gov](mailto:nhiwebmaster@dot.gov).*



## COURSE NUMBER

FHWA-NHI-151045

## COURSE TITLE

### Highway Performance Monitoring System: An Introduction

The Office of Highway Policy Information and NHI provide this online presentation as part of a broadbrush effort to promote interaction and collaboration between Traffic Monitoring Program staff and HPMS coordinators.

The goal of this FREE online presentation is to promote interaction and collaboration between traffic monitoring program staff and HPMS coordinators. FHWA's Office of Highway Policy Information created this presentation to help ensure that HPMS data needs are met with the existing traffic monitoring program or adjustments to the program.

Please note that the Flash Player must be installed on your computer in order to view the presentation.



## OUTCOMES

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

- Describe the traffic monitoring program
- Describe HPMS data requirements that can be met by the traffic monitoring program
- Explain the interconnectivity and interdependency between the traffic monitoring program and HPMS
- Identify ways to make the best use of available funding to meet users' data needs

## TARGET AUDIENCE

Federal and State department of transportation specialists, planners, designers, and administrators who are responsible for collecting traffic data and using vehicle classification data for HPMS programs and other statewide programs. Local transportation agencies, as well as those who are new to the traffic monitoring and HPMS programs, may also find this presentation to be interesting and helpful.

**TRAINING LEVEL:** Beginner

**FEE:** FREE

**LENGTH:** 1.0 HOURS (CEU: 0.0 UNITS)

**CLASS SIZE:** MINIMUM: 1; MAXIMUM: 1

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Harshad Desai • (202) 366-5047 • [harshad.desai@dot.gov](mailto:harshad.desai@dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)



## COURSE NUMBER

FHWA-NHI-152054

## COURSE TITLE

### Introduction to Urban Travel Demand Forecasting

Through classroom lectures and interactive workshops, this introductory course covers the traditional four-step modeling process of trip generation, trip distribution, mode choice, and trip assignment. The course includes presentations on land use inputs, network and zone structures, time of day factoring, and reasonableness checking.

In order to ensure that participants have a basic overview of travel demand forecasting, each registered participant will receive a Self-Instructional CD entitled *Introduction to Travel Forecasting* in advance of a scheduled session. To ensure that these CDs are shipped, we request that the Host provide the instructor coordinator with names and mailing addresses of their registrants. Participants are expected to complete the CD in advance of the session.

A half day computer lab exercise is included to reinforce the concepts presented in the classroom. The hosting organization is responsible for providing MS Windows microcomputers with color graphics, color monitors, and at least 10 megabytes of hard disk space. There should be no more than two participants per computer station.

Prerequisites: Computer experience and an understanding of college-level algebra. Participants must bring scientific calculators to the session.

## OUTCOMES

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

- Describe the role of travel forecasting within transportation planning
- Explain the principles of the four-step model: trip generation, trip distribution, mode choice, and trip assignment
- Demonstrate how input data is used in each step of the four-step model
- Identify reasonableness checks for model inputs, outputs, and equations
- Interpret the outputs from each step

## TARGET AUDIENCE

Federal, State, local planners, and engineers, and consultants who wish to gain a better understanding of the principles and applications of travel demand forecasting models.

**TRAINING LEVEL:** Intermediate

**FEE:** \$550 Per Person

**LENGTH:** 4.0 DAYS (CEU: 2.4 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Sarah Sun • (202) 493-0071 • [sarah.sun@fhwa.dot.gov](mailto:sarah.sun@fhwa.dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)





**COURSE NUMBER**

FHWA-NHI-152069

**COURSE TITLE****Metropolitan Transportation Planning**

The development of this introductory training was a collaboration among NHI, the FHWA and FTA Offices of Planning and the National Transit Institute (NTI). This course is offered by both NHI and NTI.

This course provides a general introduction and overview of the metropolitan transportation planning process, underscoring its relationship to informed decisionmaking. Aspects covered include key elements of the planning process; planning requirements; visioning, goals, objectives and measures of effectiveness; program and project development; alternatives and tools for their analysis.

NHI also offers FHWA-NHI-139006 Integrating Freight in the Transportation Planning Process Web-based training.

**OUTCOMES**

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

- Explain why the metropolitan transportation planning process exists and why it is important
- Identify the requirements of the metropolitan transportation planning process and describe the products
- Identify the players in the process and describe their roles and responsibilities
- Distinguish among vision, goals, objectives, and measures of effectiveness (MOEs) and describe the proper use of each
- Explain how to identify transportation needs and problems and how to analyze and evaluate alternative strategies
- Recognize the components of the transportation plan and the transportation improvement program
- Explain the relationship between planning and project development

**TARGET AUDIENCE**

Planning, transportation planning, programming, or project development staff working or participating in the metropolitan transportation planning process. These include participants from metropolitan planning organizations, State or local departments of transportation, transit agencies, or the Federal DOT. In addition, Federal or State resource and regulatory agencies, (e.g., EPA, Army Corps of Engineers, US Coast Guard, Fish And Wildlife Service, or Park Service, etc.).

**TRAINING LEVEL:** Beginner

**FEE:** \$420 Per Person

**LENGTH:** 3.0 DAYS (CEU: 1.8 UNITS)

**CLASS SIZE:** MINIMUM: 20; MAXIMUM: 35

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Jody McCullough • (202) 366-2825 • [jody.mccullough@dot.gov](mailto:jody.mccullough@dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)

**COURSE NUMBER**

FHWA-NHI-152071

**COURSE TITLE****Estimating Regional Mobile Source Emissions**

The transportation conformity provisions of the 1990 Clean Air Act Amendments (CAAA) require areas that violate the National Ambient Air Quality Standards (NAAQS) to demonstrate that through the transportation conformity process, transportation investments have air quality impacts consistent with the clean air goal of the State Implementation Plan (SIP). Estimating the amount of mobile source emissions is a crucial part of this process. Metropolitan planning organizations (MPOs) and State departments of transportation (DOTs) have the responsibility of creating mobile source emissions estimates to support transportation conformity determinations in areas that violate NAAQS. These emissions estimates are based on travel demand models, highway performance monitoring system (HPMS) data, and emissions rate models. In addition, planners from air agencies are responsible for developing mobile source emissions inventories based on a similar set of assumptions and techniques. It is in the interest of the MPOs and DOTs, as well as air agencies, to perform this analysis using best practice analysis techniques. The focus of this training course is to assist planners and practitioners responsible for estimating mobile source emissions in developing the necessary skills to incorporate best practice techniques into their areas of practice. The course was developed in coordination with the U.S. Environmental Protection Agency (EPA).

**OUTCOMES**

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

- Develop estimates of vehicle miles traveled by speed
- Develop MOBILE 6 emissions factors
- Develop regional emissions estimates
- Describe techniques to estimate emissions benefits of selected transportation control measures

**TARGET AUDIENCE**

This training is targeted to transportation planning staff from State departments of transportation and metropolitan planning organizations; staff from other governmental agencies who are responsible for developing mobile source emissions estimates to support conformity determinations; Federal Highway Administration, Federal Transit Administration, and EPA staff involved in the conformity process as it relates to travel demand forecasting and mobile source emissions estimates; transit operators who participate in developing mobile source emissions estimates; and consultants who are involved in this field.

Prerequisites: Participants should have 1 to 3 years of experience in travel demand forecasting, conformity, or air quality analysis, or have completed FHWA-NHI-152054, Introduction to Travel Demand Forecasting, and/or the National Transit Institute's Introduction to Transportation Conformity course.

**TRAINING LEVEL:** Accomplished

**FEE:** \$480 Per Person

**LENGTH:** 3.5 DAYS (CEU: 2.1 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Cecilia Ho • (202) 366-9862 • [cecilia.ho@dot.gov](mailto:cecilia.ho@dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)

**COURSE NUMBER**

FHWA-NHI-152072

**COURSE TITLE****Highway Program Financing**

This training provides an overview of the Federal-Aid Highway Program, focusing on various aspects of highway program financing unique to the Federal Highway Administration (FHWA). Topics include the following: the operation of the Highway Trust Fund and its significance to the funding level of the Federal-Aid Highway Program; the content and policy implication of authorizing and appropriating legislation; the FHWA apportionment process; discussion of obligation limitation, allocations, deductions, earmarking, and transferability; and the effect of policy and budget considerations on the use of Federal-Aid funds. The training has been updated to complement the new Federal-aid authorization bill. Please note that the course number also has changed, and this training is now listed under the Planning category.

**OUTCOMES**

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

- Describe the flow of Federal financing from authorization to reimbursement
- Explain authorization, appropriation, apportionment, allocation, and obligation limitation
- Discuss the impact contract authority and obligation limitation have on the use of Federal funds
- Explain how the Federal budgetary process applies to the Federal-Aid Highway Program
- Describe the significance of the Highway Trust Fund to the funding levels for the Federal-Aid Highway Program

**TARGET AUDIENCE**

This training is intended for Federal, State, regional and local government employees, as well as contractors and others from the private sector, interested in the process by which the Federal-Aid Highway program is authorized and how the funds are distributed. NHI encourages a mix of participants at each session.

**TRAINING LEVEL:** Beginner

**FEE:** \$320 Per Person

**LENGTH:** 2.0 DAYS (CEU: 1.2 UNITS)

**CLASS SIZE:** MINIMUM: 20; MAXIMUM: 40

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Bob Meredith • (202) 366-6786 • [robert.meredith@fhwa.dot.gov](mailto:robert.meredith@fhwa.dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)



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## COURSE NUMBER

FHWA-NHI-152072A

## COURSE TITLE

### Highway Program Financing- Executive Session

An overview of the Federal-Aid Highway Program, focusing on various aspects of highway program financing unique to the Federal Highway Administration (FHWA). Topics include: the operation of the Highway Trust Fund and its significance to the funding level of the Federal-Aid Highway Program; the content and policy implication of authorizing and appropriating legislation; the FHWA apportionment process; discussion of obligation limitation, allocations, deductions, earmarking, and transferability; and the effect of policy and budget considerations on the use of Federal-Aid funds. This course has been updated to complement the new Federal-Aid authorization bill.

NHI has customized the FHWA-NHI-152072 training into an Executive Session format, 5 hours in length, and tailored for Executives, Consultants and Senior Managers whose time is limited.

## OUTCOMES

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

- Describe the flow of Federal financing from authorization to reimbursement
- Explain authorization, appropriation, apportionment, allocation, and obligation limitation
- Discuss the impact contract authority and obligation limitation have on the use of Federal funds
- Explain how the Federal budgetary process applies to the Federal-aid Highway Program
- Describe the significance of the Highway Trust Fund to the funding levels for the Federal-aid Highway Program

## TARGET AUDIENCE

Executives, Consultants and Senior Managers who work for and with governmental agencies and seek a broad understanding of the framework for Federal-aid Highway Financing.

**TRAINING LEVEL:** Intermediate

**FEE:** \$200 Per Person

**LENGTH:** 5.0 HOURS (CEU: 0.5 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

**Subject Matter Contact:** Bob Meredith • (202) 366-6786 • [robert.meredith@fhwa.dot.gov](mailto:robert.meredith@fhwa.dot.gov)

**NHI Training Program Manager:** Mila Plosky • (703) 235-0527 • [mila.plosky@fhwa.dot.gov](mailto:mila.plosky@fhwa.dot.gov)



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## COURSE NUMBER

FHWA-NHI-152074

## COURSE TITLE

### TRANSIMS Basics

The TRansportation ANalysis and SIMulation System (TRANSIMS) is a set of travel modeling procedures designed to meet the State DOTs' and MPOs' need for more accurate and more sensitive travel forecasts for transportation planning and emissions analysis.

The goal of this training is to allow participants to obtain the skills and knowledge to understand the workings of TRANSIMS. This Web-based training is designed as a stand alone basic overview of TRANSIMS, as well as a prerequisite for future TRANSIMS training courses.

Researchers at the Los Alamos National designed and developed the TRANSIMS algorithms and software, based on requirements in the Intermodal Surface Transportation Efficiency Act, the Transportation Equity Act for the 21st Century and Clean Air Act Amendments. The development of TRANSIMS was a cooperative venture among the Federal Highway Administration, the Federal Transit Administration, the Office of the Assistant Secretary for Transportation Policy of the United States Department of Transportation, and the Environmental Protection Agency.

## OUTCOMES

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

- Describe the application of TRANSIMS to transportation modeling
- Compare and contrast TRANSIMS methods to existing planning models
- Identify the various components of the TRANSIMS framework
- List the functions and capabilities of TRANSIMS
- Identify the input needs and information required to run TRANSIMS
- Describe the structure of the algorithms that support each module of TRANSIMS

## TARGET AUDIENCE

Practicing transportation modelers are the primary audience for this course which will become a prerequisite for the 3-day, Instructor-led training (to be available in the near future). And since the TRANSIMS program has gained international interest among researchers, consultants, and planning agencies, this WBT is also intended to provide a basic understanding of concepts and terms for anyone interested in working with TRANSIMS.

**TRAINING LEVEL:** Intermediate

**FEE:** FREE

**LENGTH:** 6.0 HOURS (CEU: 0.6 UNITS)

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

**NHI Training Information:** (703) 235-0534 • [nhitraining@dot.gov](mailto:nhitraining@dot.gov)

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