



COURSE NUMBER

FHWA-NHI-138019

COURSE TITLE

Transportation Performance Management for Congestion including Freight, Self-Study



This course is the WBT-only version of a previous course (138010) that included a live webconference session with instructors. This course does not include the live feature.

'Transportation Performance Management for Congestion including Freight, Self-Study' is a six-hour web-based training course offered by NHI.

In many locations around the country, transportation agencies are tasked with the mandate to improve system performance, while struggling with limited budgets and resources. The Moving Ahead for Progress in the 21st Century (MAP-21) established a new performance-based Federal-aid program that was continued under the Fixing America's Surface Transportation Act (FAST). The new program required State Departments of Transportation (State DOTs) and Metropolitan Planning Organizations (MPOs) to "assess the performance of the Interstate and non-Interstate National Highway System (NHS) for the purpose of carrying out the National Highway Performance Program (NHPP); to assess freight movement on the Interstate System; and to assess traffic congestion and on-road mobile source emissions for the purpose of carrying out the Congestion Mitigation and Air Quality Improvement (CMAQ) Program".

The goal of this course is to provide the target audience with the skills and abilities to compile and analyze highway system performance data, calculate highway system performance measures, establish highway system performance targets, report highway system performance, and assess progress toward achieving performance targets.

The course consists of the following WBT modules:

Module 1: Highway System Performance Management Overview

Module 2: Performance-Based Planning and Programming

Module 3: Congestion and Freight Measures

Module 4: Data for Measuring Highway System Performance

Module 5: Calculating Congestion and Freight Measures

Module 6: Setting System Performance Targets

Module 7: Performance Evaluation and Reporting

The original course was launched in March 2019. This version of the course, which removes the live webconference component, was launched in September 2019.

Some of the modules include hands-on exercises to practice the calculations. Following these modules, participants must complete an end-of-course-assessment covering the content of the WBT modules.

To enroll in this WBT course, select 'Add To Cart'.

OUTCOMES

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

- Describe the transportation performance management requirements related to highway system performance.
- Describe the performance-based planning process as it applies to highway system performance.
- Identify required highway system performance measures and their role in system performance management.
- Identify the steps in processing highway system performance data, including manipulating the probe data sets to obtain the data needed to calculate the performance measures.
- Calculate highway system performance measures.
- Discuss the application of target setting approaches to highway system performance.
- Describe required process for highway system performance monitoring, reporting, and evaluation.

TARGET AUDIENCE

The target audience for this WBT course includes staff involved in establishing system performance targets for State

Departments of Transportation (State DOT) staff and Metropolitan Planning Organizations (MPOs). This target audience includes planners, system operators, traffic engineers, freight planners, and performance managers from State, local, and Federal agencies and MPOs. FHWA Division Office Freight staff is also included as target audience for this course.

TRAINING LEVEL: Basic

FEE: 2020: \$0 Per Person; 2021: N/A

LENGTH: 6 HOURS (CEU: .6 UNITS)

CLASS SIZE: MINIMUM: 0; MAXIMUM: 0

NHI Customer Service: (877) 558-6873 • nhicustomerservice@dot.gov