

**COURSE NUMBER**

FHWA-NHI-151056

COURSE TITLE**Highway Performance Monitoring System (HPMS): Concepts, Data Collection & Reporting Requirements**

The National Highway Institute (NHI) workshop titled, Highway Performance Monitoring System (HPMS): Concepts, Data Collection & Reporting Requirements, is a two-day workshop intended to provide advanced, in-depth, hands-on understanding of data collection and reporting requirements for HPMS. The workshop is designed to cover:

HPMS Program Background

The HPMS 2010+ Data Model

HPMS Data Collection and Reporting Requirements

Statistical Sampling Requirements; and

The HPMS Submittal Process

OUTCOMES

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

- Upon completion of the workshop, participants will be able to:
- Describe the Scope of HPMS
- Describe the Background of HPMS
- Describe the structure of the HPMS Data Model, in terms of the various catalogs and datasets that comprise the model
- Describe the various HPMS datasets
- Differentiate between the datasets that are to be developed/submitted by the States, and the datasets that will be developed/maintained by FHWA
- Explain how geo-referencing is performed in HPMS for analysis and reporting purposes
- Describe the structure of the Sections and Sample Panel Identification datasets
- Explain the relationship between the Sections and Sample Panel Identification datasets and how these are used for sampling purposes
- Interpret the data collection, coding, and reporting requirements for the Sections dataset
- Describe the Sampling Framework that is used within the context of the Highway Performance Monitoring System (HPMS)
- Discuss the way in which AADT Volume Groups and Precision Levels are used for sampling purposes in HPMS
- Explain the Sample Size Estimation procedure and how it is used in HPMS
- Discuss the importance of Sample Adequacy and Sample Maintenance in HPMS
- Describe the steps involved in the annual submittal of the various HPMS datasets

TARGET AUDIENCE

This two-day workshop is intended for State DOT HPMS staff, including: Staff responsible for data collection, processing, analysis, and production of the annual HPMS submittal. While primarily targeted for those responsible for the assembling the annual HPMS submittal, others who can benefit from this training are: GIS staff responsible for developing/providing HPMS-related data Traffic data providers Pavement data providers Road Inventory data providers MPO Staff who provide HPMS-related data to State DOTs Local agency staff that provides HPMS-related data to their State DOT This workshop is designed for those individuals seeking to obtain an understanding or expand their basic knowledge of the annual data collection and reporting requirements for HPMS. The material covered in this workshop is primarily based on requirements which were a product of the 2010+ Reassessment.

TRAINING LEVEL: Basic

FEE: 2021: \$115 Per Person; 2022: N/A

LENGTH: 2 DAYS (CEU: 0 UNITS)

CLASS SIZE: MINIMUM: 20; MAXIMUM: 30

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