

# **Pavement Preservation: Preventive Maintenance Treatment, Timing, and Selection**

PROGRAM AREA: Pavements and Materials

COURSE NUMBER: FHWA-NHI-131115

**CALENDAR YEAR    LENGTH    CEU**

2013                      2 Days            1.2 Units

TRAINING LEVEL: Basic

CLASS SIZE: Minimum:20; Maximum:30

## **DESCRIPTION:**

This is the first in a series of three courses on the general subject of pavement preservation (NHI 131115, 131103, 131116). The purpose of this 2-day course is to improve the skills of those involved in implementing pavement preservation programs. This includes improving the selection of pavement preventive maintenance projects and the selection of preventive maintenance treatments.

## **OUTCOMES:**

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

- Describe the different types of pavements and how they perform in response to traffic and environmental loading
- Identify concepts of a preventive maintenance program and the role of such a program in pavement management
- Identify pavement conditions and other attributes that indicate whether preventive maintenance is appropriate for a given pavement
- Describe preventive maintenance treatments and materials
- Determine when is the most appropriate time during the life of a pavement to apply a preventive maintenance treatment
- Select the most appropriate (or "best") preventive maintenance treatment for a given pavement based on a combination of timing, anticipated benefits, economic considerations, and other key factors

## **TARGET AUDIENCE:**

The target audience for this course is mid- or upper-level highway agency professionals responsible for pavement preservation/maintenance and management. This might include a Pavement Engineer, Project Manager/Maintenance Engineer, Regional Director, Materials Lab personnel, Planning/Programming staff, Pavement Management Engineer/Manager, or Road Superintendent within a state highway agency. For local agencies, this group might include Public Works Directors or Chief Engineers/engineers of cities, towns, counties, and metropolitan

planning organizations (MPOs). Current performance and responsibilities of the target audience include evaluating pavements, selecting pavements and treatments for preservation projects, and/or making budget determinations for pavement preservation projects (preservation vs. reconstruction). Appropriate background information or prior knowledge which would be useful for the course participants includes: Basic understanding of the information imported in a pavement condition report; Ability to interpret the results of a pavement condition report; Identify deterioration/distress using visual information and determine the causes of that deterioration/distress.