

## *ARRANGING A CLASS*

### AVAILABILITY & COST

The cost of the Chip Seal class depends upon the number of students, the training venue, and whether or not meals are included in the course package. However, prices typically range from \$100 to \$200 per person for a 1-day class.

The NCPP periodically schedules classes based on current demand, but for organizations that desire in-house training for several employees, we can arrange a special course offering at your location upon request. To find out when the next class is scheduled to take place, or to have your name added to our notification list, **please call the NCPP at (517) 432-8220.**

### MORE INFORMATION

For more information on the Chip Seal class, a detailed cost quote, or to arrange a training session for your organization, contact **Patte** at (517) 432-8220 or email: [ncpp@egr.msu.edu](mailto:ncpp@egr.msu.edu).



**National Center for  
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## **Pavement Preservation Educational Services Chip Seal Best Practices**



***Practical Training for the  
Pavement Practitioner***

**Offered by:**

**The National Center for  
Pavement Preservation**

**(517) 432-8220**

**and**

**MICHIGAN STATE  
UNIVERSITY**

***www.pavementpreservation.org***

# NCPP CHIP SEAL BEST PRACTICES COURSE

## ABOUT THE COURSE

The National Center for Pavement Preservation (NCPP) Chip Seal Course is intended to provide participants with a thorough and comprehensive understanding of chip seal design, construction, equipment, and inspection. As a preventive maintenance treatment, chip seals offer superior pavement distress mitigation; retard the downward action of water, snow and ice; and provide improved skid resistance when applied to the right pavement. Because the primary causes of chip seal failure are poor construction practices and inappropriate roadway candidate selection, this course is designed to provide pavement practitioners with the essential skills needed to ensure success.

## WHO SHOULD ATTEND?

The course has been geared to a broadly-based audience, and is appropriate for anyone involved in the design, construction, or inspection of chip seals. Pavement practitioners who will benefit from the course include engineers, foreman, superintendents, designers, inspectors, and equipment operators. The material is well-suited for state and local

transportation personnel, as well as consultants and contractors.

## WHAT IS INCLUDED?

The Chip Seal Course is designed to provide 1-day intensified training with an emphasis on practicality. Instructors are experienced chip seal practitioners with extensive backgrounds working with state and local transportation agencies. Participants will receive a notebook containing all course materials. The NCPP can provide arrangements for the class venue and/or meals during the day-long session on request for an additional cost.

## COURSE OUTLINE

A summary of the course outline includes:

### Introduction

The Preventive Maintenance Concept  
Chip Seal Terminology  
Basic Concepts  
Engineering Principles

### Chip Seal Design

Chip Seal Programming  
Design Methods  
Types of Chip Seals  
Traffic and Climate Considerations  
Selecting the Right Seal

### Contract Administration

Contract Types  
Contract Management  
Risks and Warranties

### Materials Selection

Aggregate Selection  
Binder Selection  
Aggregate-Binder Compatibility  
Geotextile and Reinforced Seals  
Specifications and Best Practices

### Equipment Practices

Asphalt Binder Distributor  
Aggregate Spreader  
Dump Trucks and Haulers  
Rollers  
Sweeping Equipment  
Specialty Equipment

### Construction Practices

Weather  
Road Preparation  
Spraying Operations  
Aggregate Spreading  
Rolling and Sweeping  
Traffic Control  
QA/QC Practices  
Lab Design and Material Testing  
Field Testing

### Chip Seal Performance Measures

Engineering-Based Performance Measures  
Qualitative Performance Indicators

## **QUICK FACTS**

**CEUs: 0.6 units**

**Duration: 1 day**

**Cost: \$100 - \$200 / person**

**Class Size: 20-50 people**