

NCAT Asphalt Technology Short Course in Colorado

When

Monday, November 7, 2022 at
12:00 PM MST

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Thursday, November 10, 2022 at
5:00 PM MST

Where: *Baldoria on the Water,*
146 Van Gordon, Lakewood, CO
80228

Register early as space will be limited.

Registration fee: \$550.00

Register before September 16, 2022 and receive a \$50 discount.

Register at:

<https://capa.memberclicks.net/ncat-training>

Overview

This 4-day training program is taught by NCAT Instructors and is geared for those who are involved with asphalt materials and construction. Engineers, Technicians both Lab and Field, Inspectors and others from all sectors of the asphalt industry need to become more knowledgeable of asphalt materials and construction practices in order to build, preserve, and maintain a sustainable highway system. This training will be a mirror of the week long training provided at the NCAT Facilities with the exception of a visit to the test track and Lee Road.

Goals and Objectives

The purpose of this intensive course is to provide a basic understanding of all phases of asphalt technology. Upon completion, the participant will be able to make knowledgeable decisions related to asphalt pavements and communicate effectively with asphalt specialists when the need arises.

Program Content

This course consists of 3 and one half days of intensive lectures. It may include some actual or video demonstration of laboratory tests (no hands-on), and discussions concerning all phases of asphalt technology such as:

1. Structural Design of Asphalt Pavements
2. Asphalt Binders: Superpave and Modified Binders
3. Physical Properties of Aggregates
4. Volumetric Analysis of Asphalt Mixtures
5. Asphalt Mix Design (Superpave, Marshall)
6. Aggregate Properties Lab Demo
7. Use of RAP in Asphalt Mixtures
8. Design and Construction of SMA Mixtures
9. Stripping
10. Laboratory Performance Testing of HMA
11. Balanced Mix Design
12. Quality Control of HMA
13. Nuclear Gauge Acceptance Testing
14. Performance Testing Lab Demo
15. Mixing, Compacting and Specific Gravities Lab Demo
16. Asphalt Plant Operations
17. Surface Preparation and Cold Weather paving
18. Delivery & Placement of HMA Mixes
19. Compaction of HMA
20. Segregation of Asphalt Mixes
21. Pavement Maintenance & Rehabilitation & Thin Lift Overlays
22. Pavement Preservation – Lee Road 159 & Pavement Preservation – US 280/MNROAD Partnership
23. Pavement Forensics
24. NCAT Test Track Research (2018 cycles studies)
25. Research Findings and Updates (topics: ignition oven, field density, friction, others...)

Materials

Each participant will be provided a binder containing a print-out of the PowerPoint presentations. The participant will leave the course with materials needed for general reference when the need arises in practice.

Continuing Education

The course will provide 3.2 CEUs or 32 Professional Development Hours.

Instructors: Travis Walbeck, P. E. and others from NCAT

