

# NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

## ASPHALT MIX DESIGN AND MIX CONTROL

### SCHEDULE AND REGISTRATION

(Registration will be open by November 14, 2025) This course is delivered through a partnership with the [National Centers for Asphalt Technology \(NCAT\)](#).

March 31-April 3, 2025, Ramada Hotel, Bismarck, ND, 1 pm first day, then 8/4:30, last day will be 7:30/11:30, Ramada Hotel 701-258-7000

A block of rooms is available

Registration fee: \$850 Register at NCAT

### OVERVIEW

The course provides an overview of production control, field placement, and recognizing quality issues. The content also includes an overview of how an asphalt mix design is developed and adjusted to meet specification requirements. Certification for Aggregate Specific Gravity is available with this course. Successful completion of a performance exam is required for Mix Designers.

The course is approximately 24 hours including the online exam on the last day.

This course offers two certification options.

**Asphalt Mix Designers** create or review asphalt mix designs, run tests for the mix design, or provide recommendations to adjust the JMF/mix design on QC/QA asphalt paving projects.

**Asphalt Mix Controllers** provide oversight/inspection during mix placement.

*This is **not** a shared course with the South Dakota DOT. See [DAPA's](#) website for SD course information*

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### COURSE SYLLABUS

- Review of mix design aggregate and asphalt mix tests
  - Aggregate Specific Gravity Testing, ND T 84, and ND T 85
  - ND T 308 Asphalt Content by Ignition Oven,
  - and ND T 30 Mechanical Analysis of Extracted Aggregate
- Volumetric Parameter Determination for Asphalt Mix Design
- Mixture Design
- Calculating and reporting asphalt mixture properties
- Specifications and testing tolerances.
- Troubleshooting mixture problems in the field
- Balanced Mix Design Test Equipment

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### WORK EXPERIENCE

**This is a course for an advanced course.** Asphalt mix design testing experience is **strongly** recommended before registering for this course. Effectively performing the responsibilities of Asphalt

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Mix Design or Asphalt Mix Control/Mix (*Production*) Control can only be accomplished through construction and testing experience followed by certification.

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### RECOMMENDED ONLINE TRAINING

The following are examples of the modules available through the [UGPTI Transportation Learning Network](#). Course content will help prepare individuals for the in-person course.

- Superpave Mix Design Process and Analysis
- Superpave for Construction
- Plant Production of Asphalt Mix
- AASHTO T 30 – Mechanical Analysis of Extracted Aggregate
- AASHTO T 308 – Asphalt Content by Ignition Oven
- Ethics Awareness for the Transportation Industry

### CONTACT

Questions: [dotmaterials@nd.gov](mailto:dotmaterials@nd.gov)

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