



DEPARTMENT OF TRANSPORTATION



Asphalt Laboratory Technician Training

Curriculum

This is a two-day certification class required for all laboratory technicians that perform testing of asphalt materials for the Nebraska Department of Transportation. This class consists of lectures, slides, in-laboratory demonstrations and hands-on laboratory testing in the Bituminous Aggregate Laboratory and the Aggregate Laboratory at NDOT. The technicians are evaluated through performance and written exams of which they must acquire grading of 80% or greater for certification.

The standardized test methods for which individuals will be qualified shall include but not limited to:

ASTM D5821 Determining the Percentage of Fractured Particles in Coarse Aggregate

AASHTO R47 Reducing Samples of Hot Mix Asphalt to Testing Size

AASHTO R66 Standard Practice for Sampling Asphalt Materials

AASHTO T11 Standard Method of Tests for Materials Finer than the #200 Sieve

AASHTO T27 Sieve Analysis of Fine and Coarse Aggregates

AASHTO T30 Mechanical Analysis of Extracted Aggregates

AASHTO T84 Specific Gravity and Absorption of Fine Aggregate

AASHTO T85 Specific Gravity and Absorption of Coarse Aggregate

AASHTO T166 Bulk Specific Gravity of Compacted Bituminous Mixtures

AASHTO T209 Theoretical Maximum Specific Gravity and Density Bituminous Mixtures AASHTO T269 Percent

Air Voids in Compacted Dense and Open Asphalt Mixtures

AASHTO T304 Test for Uncompacted Void Content of Fine Aggregate

AASHTO T312 Test for Preparing and Determining the Density of Gyratory Specimens

Certification

This is a 5-year Certification. Certified Technicians have an NDOT Independent Assurance (IA) review performed annually by the Materials & Research Quality Assurance personnel.

Reciprocity

Technicians that have certifications in other testing programs may be eligible for provisional reciprocity for certification. Submit a copy of the credentials, certification, and test proficiencies to the Materials & Research Hot Mix Design Laboratory for review for reciprocity. Registration for Training Classes To enroll in the training classes, please contact:

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Materials & Research Hot Mix Asphalt Design Laboratory