

2009-2010 Technician Certification Schedule

ND Department of Transportation & Dakota Asphalt Pavement Association

Unless listed otherwise, all Aggregate and Asphalt certification classes will be held at the Seven Seas Inn, I-94 & Exit 152, Mandan, ND - 701-663-7401, 1-800-597-7327

Recertification Classes

[Click Here for Registration Form](#)

Registration fee is \$50 each class.

Bismarck/Mandan

December 7-9, 2009

*Aggregate Tester, December 7, 1-5 pm

*Asphalt Mix Tester, December 8, 8-Noon

Asphalt Pavement Inspector, December 8, 1-5 pm

Asphalt Mix Controller, December 9, 8-Noon

Fargo – Doublewood Inn Fargo, 3333 13th Ave S, 701-235-3333

January 19-21, 2010

*Aggregate Tester, January 19, 1-5 pm

*Asphalt Mix Tester, January 20, 8-Noon

Asphalt Pavement Inspector, January 20, 1-5 pm

Asphalt Mix Controller, January 21, 8-Noon

Certifications expire December 31 of the year listed on your card. Re-certification classes must be completed in the winter/spring training season the certification expires. Certifications are valid for five years. If your current certification expires in 2009 you may recertify in either Bismarck (12/2009) or Fargo (1/2010).

New Certification Classes

Basic Aggregate Testing (\$150) December 10, 8-5 pm, Materials and Research, 300 Airport Road Bismarck. *Limited class size.*

Introduction to Asphalt (\$150) December 14, 1-5 pm and December 15, 8-Noon

Asphalt Pavement Inspector (\$175) December 15, 1-5 pm. 16th 8-5 pm, 17th 8-Noon

Aggregate Testing* (\$150) February 1, 1-5 pm, February 2, 8-Noon
Optional test demos February 2, 1-4 pm at Materials and Research

Asphalt Mix Testing* (\$225) February 3 from 8-5 pm, 4 from 8-Noon
Optional test demos February 4 from 1-4 pm at Materials and Research

*Performance Exams must be scheduled to complete the requirements for "Aggregate or Mix Tester" certifications.

Asphalt Mix Controller (\$325) February 22-25th, Begins at 1 pm 22nd, ends at Noon 25th

Field Soil Testing, January 13-14, 2010, Comfort Inn, Bismarck, ND

Failure to recertify in the training season a certification expires will result in revocation of all certifications. All prerequisites must be completed to re-establish certification.

It is your responsibility to provide notification of address or name changes and to schedule recertification classes when due.

For additional information contact Sharon Taylor at the ND Department of Transportation, Materials and Research Division, 300 Airport Road, Bismarck, ND 58504-6005. Telephone 701-328-6937 or e-mail at staylor@nd.gov

See next pages for class descriptions, certifications offered and re-certification requirements.

Class Descriptions

Introduction to Asphalt

This is an introductory class that covers asphalt materials and aggregates. It is taught entirely in a classroom. A written examination is offered at the completion of the class. This class is a pre-requisite for certification. (1 day)

Asphalt Inspection

This is a paving and compaction class for the asphalt inspector and the contractor's superintendent and foreman. It is taught entirely in the classroom and covers subjects such as paver and roller types and operations, specification requirements, and agency and industry roles and responsibilities. A written examination is offered at the completion of the class. (2 days)

Basic Aggregate Testing

This class is for the individual with *no* experience in aggregate testing. The field aggregate tests will be covered including sampling, splitting, drying and running gradations. This class offers hands-on practice and demonstration during the class. A written exam will be offered at the completion of class if certification as an Aggregate Field Tester is needed. (1 day)

Aggregate Testing

All tests and procedures covered within the aggregate certifications offered are covered in this class. The class is held in the classroom with video demonstration of tests and procedures. An optional demonstration of each test will be offered at the conclusion of the class at the Materials and Research Division lab. A written exam is offered at the completion of the class. (1½ days)

This class is a pre-requisite to the Asphalt Mix Testing class if certification as an Asphalt Mix Tester is desired. It is also required for Asphalt Controller certification.

A hands-on performance exam must be completed if certification as an Aggregate Field or Aggregate Lab Tester is desired. Performance exams are scheduled by appointment.

Asphalt Mix Testing

This class covers quality control and quality assurance testing of hot mix asphalt. It is taught in the classroom and the Materials and Research lab. A demonstration of each test will be given. A written examination is offered at the completion of the class. This class is also required for Asphalt Controller certification. (2 days)

A hands-on performance exam must be completed if certification as an Asphalt Mix Tester is desired. Performance exams are scheduled by appointment.

Asphalt Mix Controller

This class is taught entirely in the classroom and covers mix design requirements and working ranges as specified by NDDOT QC/QA specifications. It also covers subjects such as blending aggregates, detection of data uniformity. A written examination is offered at the completion of the class. (3 days)

Soils Testing

The class includes class room and hands-on training and covers the soils tests ran in the field. A written exam is offered as part of this class and a performance exam is also included in the class. (1½ days)

Recertification Classes - classes are required every five years after certification is achieved.

Asphalt Pavement Inspection Re-Certification -This is a half day refresher class for Asphalt Pavement Inspectors. A written exam is offered at the completion of the class.

Asphalt Mix Controller Re-Certification - This is a half day refresher class for Asphalt Controllers. A written exam is offered at the completion of the class.

Aggregate Re-Certification - This is a half day refresher class for Aggregate Testers. It covers all aggregate tests. A written exam is offered at the completion of the class.

Asphalt Mix Tester Re-Certification - This is a half day refresher class for Asphalt Mix Testers. It covers all asphalt mix tests. A written exam is offered at the completion of the class.

Certifications Offered

Asphalt Inspector - requires successful completion of Introduction to Asphalt and Asphalt Inspection.

Asphalt Controller - requires successful completion of Introduction to Asphalt, Aggregate Testing, Asphalt Mix Testing, Asphalt Inspection, and Asphalt Controller.

Aggregate Tester - requires successful completion of an Aggregate Testing class and performance exam of each test procedure. We offer aggregate field or aggregate lab certification.

Asphalt Mix Tester - requires successful completion of Introduction to Asphalt, Aggregate Testing and Asphalt Mix Testing classes and a performance exam of each procedure.

Soils - requires successful completion of the Soils testing class which includes a performance exam of each procedure.

Re-Certification Requirements

Asphalt Inspector – Successful completion of Asphalt Inspector Re-Certification class

Asphalt Controller – Successful completion of Asphalt Inspector and Asphalt Controller Re-Certification classes

Asphalt Mix Tester – Successful completion of Aggregate Tester class and Asphalt Mix Tester Re-Certification classes plus a performance exam of each procedure.

Aggregate Tester – Successful completion of Aggregate Tester Re-Certification class plus a performance exam of each procedure.

Soils – Successful completion of a recertification class and a performance exam of each procedure.

For additional information contact Sharon Taylor at the NDDOT, Materials and Research Division, 701-328-6937 or e-mail at staylor@nd.gov

A hands-on performance test is needed to complete the requirements for Aggregate Field, Aggregate Lab, or Asphalt Mix Tester certification or re-certification.

Aggregate Field

- T 2 - Sampling of Aggregates
- T 11 - Materials Finer Than No. 200 Sieve in Mineral Aggregate
- T 27 - Sieve Analysis of Fine and Coarse Aggregate
- T 248 - Reducing Samples of Aggregate to Testing Size
- T 255 - Total Moisture Content of Aggregate

Aggregate Field *plus* the test below equal Aggregate Lab

- T 84 - Specific Gravity and Absorption of Fine Aggregate
- T 85 - Specific Gravity and Absorption of Coarse Aggregate
- T 89 - Determining the Liquid Limit of Soils
- T 90 - Determining the Plastic Limit and Plasticity Index of Soils
- T 113 - Lightweight Pieces in Aggregate
- T 176 - Sand Equivalent Test
- T 304 - Fine Aggregate Angularity
- D 4791 - Flat or Elongated Particles in Coarse Aggregate
- NDDOT 3 - Shale, Hard Iron Oxide
- NDDOT 4 - Fractured Particles in Coarse Aggregate

Asphalt Mix Tester

- T 245 - Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus
- T 166 - Bulk Specific Gravity of Compacted Asphalt Mixtures Using Saturated Surface-Dry Specimens, Method A
- T 209 - Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
- T 312 - Preparing and Determining Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor
- NDDOT 5 - Sampling and Splitting Field Verification Hot Mix Asphalt (HMA) Samples

A copy of the test procedures are available in the Field Sampling and Testing Manual.

The manual is available at:

<http://www.dot.nd.gov/divisions/materials/testingmanual.htm>