

NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

AGGREGATE TESTING AND ASPHALT MIX TESTING

SCHEDULE

The Aggregate and Asphalt Mix Testing class is divided into two courses. Aggregate testing is covered the first two days. Asphalt mix testing is covered the last two days. You must register for both courses if your goal is certification to test aggregate and asphalt mixtures.

You may elect to attend only the Aggregate Testing session (first two days). The Asphalt Mix Tester course requires completion of Aggregate Testing first.

AGGREGATE TESTING – 8 AM TO 5 PM DAILY

December 16-17, 2019, Quality Inn, 1030 E Interstate Ave, Bismarck, ND, 701-223-1911

March 23-24, 2020, Ramada by Wyndham, 1400 Interchange Ave, Bismarck, ND 701-258-7000

ASPHALT MIX TESTING – 8 AM TO 5 PM DAILY

December 18-19, 2019, Quality Inn, 1030 E Interstate Ave, Bismarck, ND, 701-223-1911

March 25-26, 2020, Ramada by Wyndham, 1400 Interchange Ave, Bismarck, ND 701-258-7000

Lodging

A block of rooms is available under NDDOT/DAPA and will be available until the block is filled or two weeks prior to the course start. Rooms may be available after the release date but are not guaranteed.

[Quality Inn Web Link](#)

[Ramada Web Link](#)

OVERVIEW

Aggregate Testing and Asphalt Mix Testing are courses for individuals pursuing materials tester certification through the Technical Certification Program (TCP) to work on QC/QA asphalt paving projects. They are also required for individuals pursuing the Asphalt Mix Design and Production Control certification. The courses are presented in two sessions. Total course length is approximately 32 hours.

The courses are for certification. They are held in a classroom. They do not include laboratory practice. Prior materials testing experience is expected. Content includes video demonstration for review of the tests and procedures, worksheets and other calculations, as well as ND specifications. Both sessions conclude with a written exam.

Successful completion of both sessions and the written exams are the first steps for certification. Laboratory Performance (demonstration) test verification is also required. The performance exam is typically completed by appointment and only after the student has testing experience. The form to request a performance exam may be found on the TCP web page.

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This course is encouraged for all construction professionals actively involved in aggregate production, general aggregate testing and/or asphalt paving.

General Aggregate Testing: Successful completion of this course and a performance exam will provide opportunity for certification for individuals testing aggregates for projects other than QC/QA asphalt paving. For example: aggregates for base, micro surfacing, chip seals, or concrete paving.

An example of the course manual is available from the TCP web page or by [clicking this link](#):

COURSE SYLLABUS:

- Aggregate and Asphalt Test Procedures
- Aggregate and Asphalt Mix - Sampling
- Aggregate and Asphalt Specifications
- Calculating and Reporting Aggregate Properties Using NDDOT Forms and Worksheets
- Test Equipment and Calibration
- Roles and Responsibilities of the Field Lab Tester
- Daily report requirements

MINIMUM REQUIREMENTS

- Basic Math Skills
- Calculator (cell phone calculator will not be allowed for exam)
- General understanding of construction

WORK EXPERIENCE

Materials testing experience in a field laboratory setting*

This course will cover the tests and worksheets used in an aggregate and asphalt mixture laboratory. **Prior work experience or exposure to a field or permanent laboratory is necessary to understand the responsibilities of a materials tester. A minimum of one year of testing experience is recommended.**

*Recently hired employees that do not have aggregate or asphalt mix testing experience may attend the course however a performance exam may not be scheduled until documentation of hands-on training has been received.

RECOMMENDED ONLINE TRAINING

The following are some of the training resources available through the [UGPTI Learning Management System \(LMS\)](#). An account is required but is available by request for free.

- AASHTO TC₃ Basic Math for Highway and Structure Construction
- NDDOT Self-Paced Learning Modules, Aggregate Gradation, Sand Equivalent, etc.
- AASHTO TC₃ a variety of test procedures in self-paced modules are available

[Full LMS Course List](#)

NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

AGGREGATE TESTING AND ASPHALT MIX TESTING

[YouTube Videos of Tests](#)

CERTIFICATION REQUIREMENTS

Completion of course(s) and written exam(s)

Work Experience in Aggregate and Asphalt Mix Testing

Performance exam

REGISTRATION FEE

\$250 per session/\$500 for both courses

Payment may be made via credit card or by check mailed to DAPA. Registration for the class is through the DOT web link. A class registration confirmation email will contain the link to the DAPA payment web page.

Includes the manual and exam.

Break refreshments

Lunch is on your own

REGISTER ONLINE

To register for this course [click this link](#) or go to the TCP Registration link found on the NDDOT TCP web page under the tab labeled ***Certification Classes***.

REFERENCE MATERIAL

[NDDOT Field Sampling and Testing Manual](#)

[Standard Specification for Roads and Bridges, Supplemental Specifications](#)

Class Manual and Handouts

[QA Lab Tester Daily Responsibility Check List](#)

[Construction Records Manual](#)

INSTRUCTORS

Ken Swedeen, DAPA

Ron Tessier, Retired NDDOT Materials Coordinator

GUEST PRESENTERS

NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP) AGGREGATE TESTING AND ASPHALT MIX TESTING

NDDOT Materials and Research and District staff

CONTACT

Questions: dotmaterials@nd.gov
701-328-6937

NDDOT TCP Web Link
<http://www.dot.nd.gov/divisions/materials/techniciancertification.htm>