

NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

AGGREGATE TESTING AND ASPHALT MIX TESTING

SCHEDULE

Aggregate testing is covered the first two days. Asphalt mix testing is taught the last two days. Register for both courses if your goal is certification to test aggregate and asphalt mixtures.

Go to the Dakota Asphalt Pavement Association ([DAPA](#)) website to register.

AGGREGATE TESTING

December 11-12, 2023 – Ramada Hotel, Bismarck, 8/5 pm

February 26-27, 2024 – Quality Inn, Bismarck, 8/5 pm

Blocks of rooms are available at both hotels. Ramada 701-258-7000 and Quality Inn 701-223-1911. Blocks will be released approximately 3 weeks before class dates.

ASPHALT MIX TESTING

December 13-14, 2023– Ramada Hotel, Bismarck, 8/5 pm

February 28-29, 2024- Quality Inn, Bismarck, 8/5 pm

Blocks of rooms are available at both hotels. Ramada 701-258-7000 and Quality Inn 701-223-1911. Blocks will be released approximately 3 weeks before class dates.

OVERVIEW

Aggregate Testing and Asphalt Mix Testing are courses for individuals pursuing materials tester certification through the Technical Certification Program (TCP). They are also required for individuals pursuing the Asphalt Mix Design (Mix Control) certification. Each course is approximately 16 hours.

The courses are for **certification**. They are held in-person at a classroom. 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 courses include a written exam.

Successful completion of both courses is the first steps for certification. A performance exam which is a demonstration of ability to perform all tests and procedures is the next step. The performance exam is not included in the course and must be scheduled.

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

NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

AGGREGATE TESTING AND ASPHALT MIX TESTING

Test Equipment and Calibration
Roles and Responsibilities of the Field Lab Tester
Daily report requirements

MINIMUM REQUIREMENTS

Basic Math Skills
Calculator (cell phone calculator is not 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.**

*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 hands-on training has been received.

RECOMMENDED ONLINE TRAINING

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

AASHTO Basic Math for Highway and Structure Construction
QA Introduction to Quality Assurance Programs

[YouTube Videos of Aggregate Tests](#)
[YouTube Videos of Asphalt Mixture Tests](#)

CERTIFICATION REQUIREMENTS

Completion of course(s) and exam(s)
Work Experience in Aggregate and Asphalt Mix Testing
Performance exam

REGISTRATION FEE

\$325 – Aggregate Testing
\$350 – Asphalt Mix Testing

Payment is required at the time of registration.

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

Includes the manual, written exam, and performance exam.

Performance exam registration is required, and dates will be added to the [NDDOT registration site](#).

REGISTER ONLINE

To register click [this link](#) for the DAPA website.

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

GUEST PRESENTERS

NDDOT Materials and Research and District staff

CONTACT

Questions: dotmaterials@nd.gov

701-328-6937

[NDDOT TCP Web Link](#)