

# NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

## AGGREGATE TESTING AND ASPHALT MIX TESTING

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### 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 taught 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.

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### AGGREGATE TESTING

February 6-7, 2023 – Best Western Kelly Inn, Fargo

March 13-14, 2023 – Ramada, Bismarck

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### ASPHALT MIX TESTING

February 8-9, 2023 – Best Western Kelly Inn, Fargo

March 15-16, 2023 – Ramada, Bismarck

### 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-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 sessions conclude with an exam.

Successful completion of both sessions and the exams are the first steps for certification. Laboratory performance test verification is required. The performance exams must be scheduled separately.

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](#):

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### COURSE SYLLABUS:

Aggregate and Asphalt Test Procedures

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## AGGREGATE TESTING AND ASPHALT MIX TESTING

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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

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### MINIMUM REQUIREMENTS

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

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### 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.

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### 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](#)

[YouTube Videos of Tests](#)

### CERTIFICATION REQUIREMENTS

Completion of course(s) and exam(s)

Work Experience in Aggregate and Asphalt Mix Testing

Performance exam

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### REGISTRATION FEE

\$265 per course/\$530 for both courses

*Payment is required at the time of registration. Registration for the class is through the DAPA website.*

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

Includes the manual, written exam, and performance.

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### 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**.

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### 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](#)

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### INSTRUCTORS

Ken Swedeen, DAPA

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### GUEST PRESENTERS

NDDOT Materials and Research and District staff

### CONTACT

Questions: [dotmaterials@nd.gov](mailto:dotmaterials@nd.gov)  
701-328-6937

[NDDOT TCP Web Link](#)