

NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

SOILS FIELD TESTING

2022-23 Certification Season

SCHEDULE

The following are the courses offered for Soils Field Testing certification through the TCP.

For the 2023 season we will offer in-person workshop-style session that includes practice, written exam, and a performance exam.

Recorded session video is available for review for instruction-before attending a session, as well as a live online session via Teams to answer any questions.

All students are responsible to review the available videos and current version of the test procedures and associated sections of the [Field Sampling and Testing Manual \(FSTM\)](#). *Changes will be published to many related sections of the January 2023 FSTM*

WORKSHOP LOCATIONS

February 15, 2023, Valley City District, 1524 8th Ave SW, Valley City

March 23, 2023, Dickinson District, 1700 Third Ave W, Suite 101, Dickinson

OVERVIEW

Soils Field Testing is a course intended for individuals that perform density and soil tests on construction projects or in a lab as part of their daily job responsibilities. All courses require a written exam and performance exam.

YouTube videos of test procedures and a live (virtual) presentation are included. The live presentation will include an overview of tests, specifications, worksheets used and a Q&A session. An exam is included. In-person performance exams are required.

Certification is valid for 5 years.

COURSE SYLLABUS

- Soil Tests
- Worksheets and Forms
- Basics Soil Inspection
- Specifications, Relevant Portions of Sections 200 and 700
- Field Sampling and Testing Manual, Sections 200 and 704

THE TESTS THAT WILL BE COVERED

- ND T 99 & 180 - Moisture-Density Relations of Soils
- ND T 191 - Density In-Place by the Sand Cone Method

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ND T 217 - Determination of Moisture in Soil by Means of Calcium Carbide Gas Pressure Moisture Tester (Speedy)

ND T 265 - Laboratory Determination of Moisture Content of Soils

ND D 2167 - Density of Soil in Place by the Rubber-Balloon Method

ND D 4643 - Microwave Method of Drying Soils

MINIMUM REQUIREMENTS

Basic Math Skills

Calculator (cell phone calculator will not be allowed for exam)

WORK EXPERIENCE

Experience and knowledge of construction projects and processes is beneficial and recommended. It is highly recommended that individuals requesting certification have soil testing experience.

CERTIFICATION REQUIREMENTS

Attending a course or testing out, a written exam and a performance exam.

WHO CAN TEST OUT?

- Individuals with certifications expiring in 2022. (Renewal)
- Individuals with recent on-the-job training for soils testing.

RECIPROCALITY

Acceptance of certification from other states is not offered for Soils Field Testing certification.

REGISTRATION FEE

There is no registration fee.

Please keep in mind this course is intended for individuals that will run tests. Space is limited in-person.

REGISTER ONLINE

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

INSTRUCTORS

Curt Dunn, Grand Forks District Materials Coordinator

Mark Riley, Fargo District Construction

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RESOURCES

Class Manual

A copy of previous course content is available from the TCP web page or by [clicking this link](#):

[Field Sampling and Testing Manual](#)

[*ND Standard Specification for Road and Bridge Construction and Supplemental Specifications*](#)

[YouTube](#) (videos of each test included in the Soils Field certification)

CONTACT

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

[NDDOT TCP Web Link](#)