

# NDDOT TECHNICAL CERTIFICATION PROGRAM (TCP)

## SOILS FIELD TESTING

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### 2023-24 Certification Season

#### OVERVIEW

Soil Field Testing (SFT) is a certification for the individual who performs density and soil tests on construction projects or in a lab as part of their daily job responsibilities. Certification requires a written exam and performance exam and is valid for 5 years.

For the 2023-24 season, we offer in-person test-out dates that include practice, an online 'written' exam, and a performance exam. Before the in-person session, a live Q&A session is offered via Microsoft Teams.

YouTube videos of previous classes and demonstration of test procedures are provided. **Students must review the videos before requesting certification and familiarize themselves with the current version of the test procedures.**

#### TEST-OUT DATES

*January 9, 2024, Valley City District, 1524 8<sup>th</sup> Ave SW, Valley City, 9 am*

*February 13, 2024, Valley City District, 1524 8<sup>th</sup> Ave SW, Valley City, 9 am (class is full)*

March 26, 2024, Dickinson District, 1700 3<sup>rd</sup> Ave W, Dickinson, 9 am (MT) (class is full)\*

A Bismarck class date will be added for March or April 2024.

*\*A waitlist is available at the registration site.*

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#### CONTENT

[YouTube playlist – Presentation and Test Demonstration](#)

[Worksheets and Forms](#)

Basics Soil Inspection

[Specifications, Relevant Portions of Sections 200 and 700](#)

[Field Sampling and Testing Manual, Sections 200 and 704](#)

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#### 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

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

ND T 255- Total Evaporable Moisture Content of Aggregate by Drying

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

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### 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.

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### CERTIFICATION REQUIREMENTS

Attending a test-out session and completing written and performance exams.

The requirement for a new certification or renewal is the same.

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### RECIPROCITY

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

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### REGISTRATION FEE

There is no registration fee.

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### 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 ***Class Description and Registration***.

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### YOUTUBE VIDEOS INSTRUCTORS

Curt Dunn, Grand Forks District Materials Coordinator

Mark Riley, Fargo District Construction

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### CONTACT

Questions: [dotmaterials@nd.gov](mailto:dotmaterials@nd.gov)

701-328-6937

[TCP Web Link](#)