

Division of Materials and Tests

TDOT Certification:

Concrete Technician Certification Program

Course Title: Concrete Certified Field Testing Technician Course

Certification Level: Grade I

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Course Description

The TDOT Concrete Field Testing Technician is an individual who has demonstrated the knowledge and ability to properly perform and record the results of seven basic field tests on freshly-mixed concrete as well as perform calculations necessary to report the data from each test.

Scope of Course

The program requires a working knowledge of the following AASHTO/ASTM Standards:

- AASHTO T 309/ASTM C 1064 - Temperature of Freshly-Mixed Portland Cement Concrete
- AASHTO T 141/ASTM C 172 - Sampling Freshly-Mixed Concrete
- AASHTO T 119/ASTM C 143 - Slump of Hydraulic Cement Concrete
- AASHTO T 121/ASTM C 138 - Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
- AASHTO T 153/ASTM C 231 - Air Content of Freshly-Mixed Concrete by the Pressure Method
- AASHTO T 196/ASTM C 173 - Air Content of Freshly-Mixed Concrete by the Volumetric Method
- AASHTO T 23/ASTM C 31 - Making and Curing Concrete Test Specimens in the Field
- ASTM C 1611/1621/1758 – Self Consolidating Concrete

Prerequisites

- Supervisor's approval and written recommendation
- A basic understanding of concrete testing, placement, and inspection
- Familiarity with applicable TDOT Standard Specifications, Supplemental Specifications, and Special Provision
- Mathematical skills through TDOT Basic Math 1

Certification Requirements

TDOT will grant certification to those applicants who meet both of the following requirements:

1. A passing grade on the written examination; and
2. Successful completion of the performance examination.
3. The one-hour written examination is "open-book" and consists of 48 multiple choice questions. There are five (5) to ten (10) questions on each of the AASHTO/ ASTM Standards. To pass the written examination, both of the following conditions must be met:
 - (a) at least 60% correct for each of the required standards; and
 - (b) a minimum score of 70% overall.
4. The performance examination takes place immediately after the written examination. The performance examination requires that the student demonstrate the knowledge and ability to perform each of the seven required standards. Evaluators may ask questions during the performance of the tests in order to determine more accurately the students' knowledge of the standards. The student is evaluated on his ability to correctly perform and describe all of the required procedures for each standard.
5. Recertification is necessary every five (5) years and requires that the technician attend the classes and successfully complete the written and performance examinations.

On-line Study Guide

- [Concrete Field Testing Technician Course Study Guide](#)

How to Register

NOTICES:

Cheating on any level **WILL NOT BE TOLERATED** and will result in immediate expulsion from the course and a notification of supervisors and directors.

The use of cell phone calculators **WILL NOT** be permitted during exam.

A Valid **PHOTO ID IS REQUIRED** upon check-in.

Regional Locations and Start Times for Training Classes

Region 1

Knoxville Region 1 Auditorium
7345 Region Lane
Knoxville, TN 37914
Phone: 865.594.2400

8:00 am Eastern Standard Time

Region 2

Chattanooga Region 2 Auditorium
4005 Cromwell Rd. Chattanooga, TN 37421
Phone: 423.892.3430

8:00 am Eastern Standard Time

Region 3

Nashville Region 3 Auditorium
6601 Centennial Blvd. Nashville, TN 37243
Phone: 615.350.4100

8:00 am Central Standard Time

Region 4

Jackson Region 4 Auditorium
300 Benchmark Place
Jackson, TN 38301
Phone: 731.935.0100

8:00 am Central Standard Time