

Division of Materials and Tests

TDOT Certification: Concrete Technician Certification Program

Course Title: Concrete Mix Design Course

Certification Level: Grade III

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Course Description

The TDOT Concrete Mix Design Technician is an individual who has demonstrated the knowledge and ability to properly perform and record the results of four basic tests on concrete; perform calculations necessary to report the data from each test; perform calculations necessary to design a concrete mix.

Scope of Course

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

- AASHTO T 126/ASTM C 192 - Making and Curing Concrete Test Specimens in the Laboratory
- AASHTO T 22/ASTM C 39 - Compressive Strength of Cylindrical Concrete Specimens
- AASHTO T 84/ASTM C 128 - Specific Gravity and Absorption of Fine Aggregate
- AASHTO T 85/ASTM C 127 - Specific Gravity and Absorption of Coarse Aggregate
- *TDOT Standard Specifications for Road and Bridge Construction* - Sections 500, 600 and 900
- *TDOT Supplemental Specifications*
- Process Control Plans
- Concrete Mix Design

Prerequisites

- Supervisor's approval and written recommendation
- Completion of Concrete Certified Field Testing Technician Course, Level I
- Completion of Concrete Plant Quality Control Technician Course, Level II
- Familiarity with applicable TDOT Standard Specifications, Supplemental Specifications, and Special Provisions
- Mathematical skills through TDOT Basic Math 2

Certification Requirements

- 1) TDOT will grant certification to those applicants who meet both of the following requirements:
- 2) A passing grade on the written examination.
- 3) The one-hour written examination is "open book" and consists of 50 multiple choice questions. To pass the written examination, a minimum score of 70% overall is required.
- 4) 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 Mix Design Technician Certification 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**