

## Division of Materials and Tests

### TDOT Certification:

### Concrete Field Testing Technician Certification Program

The TDOT Concrete Field Testing Technician is an individual who has demonstrated the knowledge of and ability to perform concrete field tests for acceptance or quality control.

#### Scope of Course

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

- AASHTO T 309/ASTM C1064 - Temperature of Freshly-Mixed Portland Cement Concrete
- AASHTO T 141/ASTM C172 - Sampling Freshly-Mixed Concrete
- AASHTO T 119/ASTM C143 - Slump of Hydraulic Cement Concrete
- AASHTO T 121/ASTM C138 - Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
- AASHTO T 153/ASTM C231 - Air Content of Freshly-Mixed Concrete by the Pressure Method
- AASHTO T 196/ASTM C173 - Air Content of Freshly-Mixed Concrete by the Volumetric Method
- AASHTO T 23/ASTM C31 - Making and Curing Concrete Test Specimens in the Field
- ASTM C1611/1621/1758 – Self Consolidating Concrete

#### Prerequisites

- A basic understanding of construction and inspection; concrete testing
- Familiarity with applicable TDOT Standard Specifications, Supplemental Specifications, Special Provisions, and Standard Operating Procedures
- Proficient in basic mathematical skills (addition, subtraction, multiplication, division, percentages, etc.)

#### Certification Requirements

1. TDOT will grant certification to those applicants who meet both of the following requirements: A passing grade on both the written and performance examinations.
2. The written examination is "closed book" with test sections on each of the AASHTO/ASTM standards. To pass the written examination a minimum score of 70% is required.
3. The performance exam is "closed book" and requires demonstration of ability to perform and describe each of the AASHTO/ASTM standards listed above.
4. Recertification is necessary every five (5) years and requires that the technician attend the class and successfully complete the written and performance examinations.

## **Notices**

- A Valid PHOTO ID IS REQUIRED upon check-in.
- Cheating on any level WILL NOT BE TOLERATED, will result in immediate expulsion from the course, and supervisors and directors will be notified.
- The use of cell phone calculators WILL NOT be permitted during exam.