

## **Division of Materials and Tests**

### **TDOT Certification: Aggregate Technician Course**

The TDOT Aggregate Technician is an individual who has demonstrated the knowledge of and ability to interpret the results of aggregate tests 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 R 90/ASTM D75 - Sampling of Aggregates
- AASHTO R 76/ASTM C702 - Reducing Samples of Aggregate to Testing Size
- AASHTO T 255/ASTM C566 - Total Evaporable Moisture Content of Aggregate by Drying
- AASHTO T 11/ASTM C117 - Materials Finer Than 75-mm (No. 200) Sieve in Mineral Aggregates by Washing
- AASHTO T 27/ASTM C136 - Sieve Analysis of Fine and Coarse Aggregates
- AASHTO T 84/ASTM C128 - Specific Gravity and Absorption of Fine Aggregate
- AASHTO T 85/ASTM C127 - Specific Gravity and Absorption of Coarse Aggregate
- AASHTO T 104/ASTM C88 – Soundness of Aggregates by Use of Sodium or Magnesium Sulfate
- AASHTO T 96/ASTM C131 – Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

#### **Prerequisites**

- A basic understanding of construction and inspection; aggregate 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". 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 AASHTO T 11/ASTM C117 and AASHTO T 27/ASTM C136.
4. Recertification is necessary every five (5) years and requires that the technician attend the classes 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.