MDOT
Training and Certification



Certification Requirements

The Michigan Department of Transportation (MDOT) stipulates that technicians conducting field density tests and aggregate inspection on MDOT projects must be certified and maintain their certification through a program conducted or approved by MDOT. The training and certification programs offered by Lawrence Technological University (LTU) and taught by MDOT staff are designed to meet the needs of transportation technicians and their supervisors to acquire and/or maintain this required certification.

Lawrence Technological University

The courses are held in Lawrence Tech's new Transportation Materials Laboratory with state-of-the-art equipment. Conveniently located in Southfield, LTU's modern campus is easily accessed by freeway and offers plenty of free parking. Lunch can be purchased at the University's all-you-care-to-eat cafeteria with multiple food stations.

All classes are held 8.30 a.m.–4.30 p.m.

Density Control Training -- $690

The Course

The four-day course consists of three days of instruction and hands-on laboratory training and one day of testing. Course topics include compaction and density testing:

- One-Point T-99 Test
- AASHTO T-99 Test
- One-Point Michigan Cone Test
- Michigan Cone Test
- Michigan Modified T-180 Test
- In-Place Density (Nuclear) Test
- Speedy Moisture Test
- Documentation Requirement

The Examination

Participants must successfully complete both the written and practical parts of the examination to receive the MDOT Density Control Certification.

Part 1 – Written Portion

The open-book examination consists of multiple-choice questions covering the fundamentals of density control on soil subgrade, aggregate bases, and asphalt materials. Basic mathematical skills, such as the use of fractions, decimals, ratios, and percentages, are required.

Part 2 – Practical Portion

The exam requires participants to give verbal descriptions of field tests and demonstrate competency in performing the Michigan Cone, One-Point T-99, T-180, Speedy Moisture, and In-Place Density (Nuclear) tests.



Density Control Recertification -- $490

Recertification is required every three to five years depending upon the initial training. LTU also offers recertification courses. The two-day course consists of a one-day refresher workshop and an exam day. The recertification exam has written and practical sections similar to the certification exam.



Aggregate Inspection Training, Level 1 -- $750

The Course
The three-day course consists of two days of instruction and hands-on laboratory training and one day of examination. Course topics include:

- Aggregate sampling and stockpiling
- Sample size and sample reduction
- Mechanical Analysis
- Documentation

The course includes instruction, training, and testing for the following standard test methods:

- AASHTO T-2: Sampling of Aggregates
- AASHTO T-248: Reducing Samples of Aggregate to Testing Size
- AASHTO T-11: Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
- AASHTO T-27: Sieve Analysis of Fine and Coarse Aggregate
- MTM-117: Michigan Test Method for Determining Percentage of Crushed Particles in Aggregates

The Examination
Participants must successfully complete both a written and a practical exam to receive Aggregate Inspection certification.

Part 1 – Written Portion
The examination consists of multiple choice questions covering the fundamentals of aggregate sampling and stockpiling, sample size and sample reduction, and mechanical analysis of aggregate. Basic mathematical skills, including the use of fractions, decimals, ratios, and percentages, are required.

Part 2 – Practical Portion
The exam requires participants to give verbal descriptions of field tests and demonstrate competency in performing all of the test methods listed above.



Lawrence Technological University
Possible is everything.

Lawrence Technological University
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Southfield, MI 48075-1058
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2018 SCHEDULE

	DATES	EXAM
Density Control Certification Course	January 29-31 March 19-21	February 1 March 22
Density Control Recertification Course	February 1 March 22	February 2 March 23
Aggregate Certification Course, Level 1	January 8, 9 March 26, 27	January 10 March 28

Sessions can be added based on demand and availability of instructors.

REGISTER www.LTU.edu/MDOT-training

COURSE COORDINATORS

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REV 11.17