

CONSTRUCTION MATERIALS TESTING, SHORT-TERM CERTIFICATE



Education and training for employment as a construction materials testing technician. Students will perform basic field concrete and soil tests under the direction of engineering professionals of company technician managers. This field work is required to ensure that sampling inspection, and testing is performed consistent with project specifications. Test results are prepared for lab reports and transmitted to the proper construction personnel for review.

Coursework in this program will prepare students to sit for the NICET Transportation Construction Inspector Level I and II certification exams.

This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

Learn more about how certificate credits apply to the related degree.

Admissions Requirements

- High school diploma or GED.
- MATH-0965 or qualified Math Placement.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Interpret the intent of plans and specifications as they relate to the need for testing specified construction materials.
2. Perform standard construction industry practices for sampling and testing of soil, asphalt, and concrete.
3. Be certified in OSHA 30 for the Construction Industry.
4. Be prepared for NICET Level I and II Construction Materials Testing Asphalt, Concrete, and Soils Certification exam.
5. Be prepared for ACI Concrete Grade I and II Concrete Field Testing Technician certification exam.

Suggested Semester Sequence

Summer Start		Credit Hours
CNST-1290	Construction Print Reading	2
MATH-1530	College Algebra ¹	4
Credit Hours		6

First Semester

CNST-1281	Construction Engineering Orientation	3
CNST-1660	Material Testing	2
CNST-1670	Highway Inspection	2
CNST-2131	Construction Methods and Materials	3
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
MATH-1540	Trigonometry	3
Credit Hours		16

Second Semester

CNST-1750	Construction Safety	3
Select one of the following:		3
IT-1090	Computer Applications	
IT-109H	Honors Computer Applications	
CNST-2110	Basic Survey Practices	3
CNST-2140	Advanced Material Testing & Inspection	2
Credit Hours		11

Total Credit Hours 33

1. MATH-1580 Precalculus or MATH-1610 Calculus I will be accepted in place of both MATH-1530 College Algebra and MATH-1540 Trigonometry but an additional 2 credit hours of general electives may be needed to meet degree requirements.

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.