

UTILITIES SAFETY AND OPERATIONS FUNDAMENTALS, CERTIFICATE OF PROFICIENCY



The Utilities Safety and Operations Fundamentals Certificate provides students with the essential background to begin working safely in utilities construction in entry-level roles. Students learn the basics of construction safety, advanced safety, reading utility prints, locating underground utilities, operating equipment with hands-on labs, and basics of traffic management.

Program contact: Learn more

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.

Financial Assistance funds cannot be applied towards this program. Request for eligibility to utilize Financial Assistance funds for this program is currently pending.

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

Related Degrees and Certificates

- Utilities Technology, Associate of Applied Science
- Construction Engineering Technology, Associate of Applied Science
- Construction Project Management Certificate of Proficiency
- Construction Operations Short-Term Certificate

Program Admission Requirements

- High School Diploma/GED.
- ENG-0995 Applied College Literacies or appropriate score on English placement test.
- MATH-0955 Beginning Algebra with "C" or higher, or qualified Math placement.
- Completion of CNST-1751 Construction Safety and CNST-1290 Construction Print Reading
- 18 years or older
- Possess a valid Ohio driver's license
- Drug-free

Program Learning Outcomes

1. Incorporate safety awareness, principles and practice in every aspect of work and as a way of life.

2. Earn OSHA 30 for the Construction Industry Outreach credential.
3. Perform basic operational tasks in telecommunications, water, wastewater, and gas distribution/collection utilities systems.
4. Describe common managerial and maintenance tasks required in maintaining a utility system.

Suggested Semester Sequence

First Semester		Credit Hours
CNST-1281	Construction Engineering Orientation	3
CNST-1290	Construction Print Reading	2
CNST-1751	Construction Safety	2
CNST-1640	Utility Locating and Traffic Flagging	2
CNST-2220	Telecommunication Systems	3
EET-1220	Circuits and Electronics for Automation	3
Credit Hours		15
Second Semester		Credit Hours
CNST-2050	Advanced Construction Safety	3
CNST-2131	Construction Methods and Materials	3
UT-2000	Equipment Operations I	3
UT-2100	Aerial Construction	3
UT/CNST-XXXX	Elective ¹	3
Credit Hours		15
Total Credit Hours		30

¹ Recommend UT-2200 Underground Construction I, CNST-2230 Gas Pipeline Systems, CNST-2240 Water and Wastewater Systems, or CNST-2830 Cooperative Field Experience for UT/CNST-XXXX Elective.

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.