

## ***Civil Engineering Technology Program Educational Objectives and Student Outcomes***

The Civil Engineering Technology program at NWTC is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

### **Program Educational Objectives - Graduates will...**

1. Be technically competent and able to solve civil engineering technology problems using basic principles of mathematics, science, and engineering technology.
2. Be able to communicate effectively, both orally and in writing, using technology and graphical representations.
3. Be effective team members.
4. Respect and appreciate diversity and demonstrate professional behavior in engineering.
5. Recognize the value of life-long learning and engage in professional growth.

### **Student Outcomes:**

1. An ability to communicate technical solutions, orally and written, by utilizing sketching techniques, operating systems, spreadsheets, word processing, CAD systems, and other software products.
2. An ability to conduct, analyze, interpret, and apply test data results to perform basic design related to soils, concrete and asphalt.
3. An ability to utilize the legal aspects of land surveying and use land surveying instruments to collect data necessary to produce topographic maps, establish horizontal and vertical control, and to lay out civil engineering projects.
4. An ability to solve engineering, surveying, and materials testing problems using principles of mathematics, science, engineering, and technology.
5. An ability to estimate material quantities and interpret project plans and specifications.
6. An ability to function effectively as a member of a technical team.