

# 2019-2020 TTC Catalog

## Basic Machining and CNC Fundamentals

### Certificate in Applied Science

#### 30 Credit Hours

This program introduces students to workplace safety, blueprint reading, precision measuring, basic conventional machining and CNC operations including set-up and programming. Students are prepared for entry-level employment in the metal- working industry.

#### Major Requirements

EGT 106 Print Reading and Sketching 3

IET 223 Industrial Safety 3

MTT 111 Machine Tool Theory and Practice I 5

MTT 112 Machine Tool Theory and Practice II 5

MTT 143 Precision Measurements 2

MTT 145 Machining of Metals 3

MTT 250 Principles of CNC 3

MTT 251 CNC Operations 3

MTT 253 CNC Programming and Operations 3

Total: 30 Admission into this program requires qualifying scores on SAT, ACT or the TTC placement test. High school graduation is not required if you are at least 18 years old.