

Machining Course Description

PROGRAM: *Precision Machining I and Precision Machining II*

CAMPUS LOCATION: Butler Farm, Hampton, VA

COURSE DESCRIPTION: This is a one-year program offered at the Butler Farm Campus through a partnership with Thomas Nelson Community College (TNCC). This program will lead to industry certification and prepares students for manufacturing careers in the machinist trade.

This class is dual enrolled with TNCC for 19 college credits.

PREREQUISITES:

The Precision Machining course is dual enrolled with Thomas Nelson Community College (TNCC) for 21 credits and students are **required** by Virginia's Community Colleges to take the TNCC English and Math placement test to be considered for acceptance.

SPECIAL CONSIDERATIONS: Students will be introduced to safety procedures, bench work, hand tools, precision measuring instruments, drill presses, cut-off saws, engine lathes, grinders and milling machines.

CLASS SIZE: 15 students are the maximum number per class.

CLASS FEES: \$17.00 school activity fee

TEXTBOOK: Machine Tool Practices ISBN-13:978-0132912655

CREDENTIALING:

- National Institute of Metalworking Skills (NIMS)
- NIMS Level I - Measurement, Materials and Safety Certification
- NIMS Level I - Bench-work and Layout Certification

COURSE SCHEDULE:

Precision Machining Fall Semester

- CAD 120 Introduction to Graphic Representation
- SAF 130 Shop Safety
- MTH 111 Applied Technical Math
- MAC 161 Machine Shop Practices I

Precision Machining Spring Semester

- MAC 162 Machine Shop Practices II
- DRF 160 Machine Blueprint Reading
- MAC 121 Numerical Control I
- MAC 198 Seminar and Project

POSTSECONDARY PARTNERS:

- Thomas Nelson Community College

PROJECTED EMPLOYMENT:

Career	2017 National Median Salary
Machinist	\$44,110 per year

*Source: *U.S. Bureau of Labor Statistics*

BUSINESS PARTNERS:

- Continental

TEACHER:

The Precision Machining program consists of 8 different courses which are taught by various different TNCC instructors.

RESOURCES:

- CTE Verso Virginia