

Journeyman Machining Technology, Certificate IV

School of Technology

This program prepares students for upper mid-level employment in both the manual and computer numerical (CNC) machining industries. Students will learn to effectively use advanced manual operations on mills, lathes and grinders in the production of parts. Students will also learn to perform periodic maintenance and repair shop equipment and systems. Students will also acquire technical communication skills and take a social study elective.

This is the fourth of four certificate programs for students pursuing the Journeyman Machining Technology degree.

Career Opportunities

Graduates of this program can expect to be employed as mid-level machinists, tool and die makers, metalworkers, CNC programmers and CNC operators. These classes may also be used toward a Pennsylvania Journeyman Certification with shops associated with Westmoreland.

Program Learning Outcomes

Upon successfully completing this program, students will be able to:

- Effectively produce parts using manual mills, lathes and grinders
- Utilize special tooling and fixtures in precision machining
- Perform periodic maintenance and repair shop equipment
- Demonstrate technical communication skills
- Complete the degree requirements with an elective study.

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Term Offered	Prereq(s)	Options Available
Spring	1	PDV 101	First Year Seminar	1	F, Sp, Su		
	2	ENG 162	Technical Communication	3	F, Sp, Su	ENG 161	
	3	DFT 112	Introduction to Design, Materials, and Processing	3	F, Sp		
	4	MTT 202	Maintenance	3	Sp	MTT 111	
	5	Elective	Restricted Elective	4	Sp		See List
	6	Elective	Social Science Elective	3	F, Sp, Su		Page 49 Column III

Total Program Credits

17

Restricted Electives:

DFT 266 Inventor
 CNC 214 Computer Numerical Control IV
 MTT 213 Machining III

MTT 214 Machining IV
 WEL 125 Introduction to Welding
 Courses with prefix: DFT, EMA, ELC, EGR, HAC, MET, PHY, WEL (Prefix courses must be approved and meet credit requirements.)