

Machinist, CAS

Academic Year 2026-2027

Program Description:

The Machinist Technology Program at the Marshall Advanced Manufacturing Center (MAMC) is an industry-driven, hands on program that prepares individuals to meet the rigorous demands of the manufacturing sector. An element of the MAMC program enables students to earn a certificate degree in Technical Studies by completing additional course work through Mountwest Community & Technical College.

Participants in the Machinist Technology Program receive technical skills training to work in industrial machining. Course work includes manual machine operation and technical support, and introductory CNC (computer-numerical-control) machine operation and technical support.

Students can earn up to 6 National Institute of Metal Working Skills (NIMS) certifications.

Career Outlook and Salary Forecast:

For the most current information please refer to the Bureau of Labor Statistics “Occupational Outlook Handbook” found at www.bls.gov/ooh/.

Program Outcomes:

- Select appropriate tools and materials based on work orders
- Use precision measurement tools to accurately measure parts with proper math written outcomes
- Produce simple parts with accurate measurements within allowable tolerances on a manual mill and a manual lathe
- Produce accurate single and multiple machined parts from drawings within tolerance allowance without assistance
- Execute CNC Programs to create simple parts on a CNC mill and CNC lathe

Program Admission Requirements:

The Machinist Technology Program has admission and candidacy requirements in addition to the Mountwest Community & Technical College admission guidelines.

Contact Information:

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Mountwest empowers students to learn and lead in the community and in the workforce.

COURSES REQUIRED

Machinist CAS, CT15 ¹							
Name:					ID Number 942-		
Educational Counselor:							
Faculty Advisor:							
COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
MT 106	Manufacturing Skills I	F	1				
MT 118	CNC Mill Loader Operator	F	2				
MT 121	Introduction to Machinery	F	6				
MT 200	Blueprint Reading, Precision Measurement & Inspection	F	4				
			13				
MT 126	Manufacturing Skills II	S	1				
MT 215	Metal Working Theory and Application	S	6				
MT 233	NIMS Credentialing/Manual Machining	S	6				
MT 241	Introduction to CNC Machining	S	4				
			17				
HOURS REQUIRED FOR GRADUATION: 30							

¹ All courses are at the Marshall Advanced Manufacturing Center, located at 1050 4th Avenue, Huntington, WV.