

Technical Studies CP

Machinist Technology – Concentration

Career & Technical Division

Program Description:

The machinist Technology Program at the Robert C. Byrd Institute for Advance Flexible Manufacturing (RCBI) is an industry-driven, hands on program that prepared individuals to meet the rigorous demands of the manufacturing sector. An element of the RCBI 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, introductory CNC (computer-numerical-control) machine operation and technical support, oral communications and organizational skills, mathematics for machinists, and safety issues.

Working closely with an 11-member industry-based advisory board, RCBI designed the program's core technical components so they met the manufacturing sector's needs.

Comprehensive full- and part-time programs are available, thus enabling current workforce members to improve their technical skills and develop professionally while helping their employers become more competitive.

Career Outlook:

Despite projected slower-than-average employment growth, job opportunities for machinists should continue to be excellent. The number of workers obtaining the skills and knowledge necessary to fill machinist jobs is expected to be less than the number of job openings arising each year from employment growth and from the need to replace experienced machinists who transfer to other occupations or retire.

Salary Forecast:

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

Program Admission Requirements:

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

Tech Prep Affiliation:

The Machinist Technology Program is aligned with the West Virginia Tech Prep Engineering/Technical Cluster.

Contact Information:

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Our mission is to prepare students for careers, civic responsibility and life-long learning.

Machinist Technology Major Code- CT15¹

Name:			ID Number 942-	
CAPS SCORES:	MATH:	ENGLISH:	READ:	DOE:
COL 101 Faculty:				
Educational Counselor:				
Faculty Advisor:				

COURSE REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
MAT 135	Math for Machinist Technology ³ (EDGE)		3				
MT 105	Industrial Safety		2				
MT 121	Introduction to Machinery ⁴		4				
MT 200	Blueprint Reading		3				
MT 205	Precision Management		3				
COM/ENL	Communication/English Elective ⁵		3				
MT 215	Metalworking Theory		10				
	Machinist Elective ⁶		2				

DEVELOPMENTAL COURSES REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR

HOURS REQUIRED FOR GRADUATION: 30

¹ All courses are at Robert C Byrd Institute, locate at 1050 4th Avenue, Huntington, WV.

² Course work may be applied toward AAS in Machinist/CN Technology.

³ MAT 135 has a prerequisite of placement in 100-level mathematics.

⁴ MT 121 is by permission only.

⁵ Choose from COM 112, COM 125, or ENL 231.

⁶ Recommend MT 215 Metalworking Theory & Application.

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