

Certificate

Program Description:

The Machinist Technology Program at the Robert C. Byrd Institute for Advanced Flexible Manufacturing (RCBI) is an industry-driven, hands-on program that prepares 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 meet 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:

Median hourly earnings of machinists were \$16.33 in 2004. The middle 50 percent earned between \$12.84 and \$20.33. The lowest 10 percent earned less than \$10.08, while the top 10 percent earned more than \$24.34. Median hourly earnings in the manufacturing industries employing the largest number of machinists in 2004 were:

Metalworking machinery manufacturing.....	\$17.06
Machine shops; turned product; and screw, nut, and bolt manufacturing.....	\$15.87
Motor vehicle parts manufacturing.....	\$17.46
Employment services.....	\$11.09

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.

Major Code – CT10

FIRST YEAR	
First Semester (Fall) RCBI^{1,3} MAT 135 Mathematics for Machinist Technology(EDGE) .. 6 MT 105 Industrial Safety (EDGE) 2 MT 121 Introduction to Machinery ² (EDGE)..... 4 MT 205 Precision Measurement (EDGE)..... 3 TOTAL CREDITS..... 15	Second Semester COM 112 Oral Communication 3 MT 215 Metalworking Theory & Application ² 12 MT 223 Advanced Technical Specialization 6 TOTAL CREDITS 21
HOURS REQUIRED FOR GRADUATION: 36	

Employment Opportunities:

Entry-level positions for which graduates will compete include:

- Manual machinist
- CNC machinist
- Industrial sales representative
- Auto plant employee
- Machine shop employee
- Fabricator

Earn a Degree Graduate Early (EDGE):

This program provides students the opportunity to receive credit for their high school EDGE courses.

Contact Information:

Ed Black, Instructor

304-781-1690 or 1-866-N-ROLLED (1-866-676-5533) • E-mail: eblack@rcbi.org

1. RCBI Machinist Courses will be completed as a block at RCBI sties in Huntington, WV and Bridgeport, WV.

2. MIT 121 and MT 215 have a prerequisite of instructor permission.

3. Course work may be applied toward AAS in Technical Studies: Machinist Technology.