



Manufacturing Technologies Career Pathway

Certificate

Associate Degree,
Systems Technology

Bachelor's Degree,
Systems Engineering



Start Pre-Manufacturing

As early as grade 7
(based on readiness)

Mold Operator

Median Salary: \$28,420
Job Growth (10 yr): 1.5%
Annual Openings: 166
Average Tuition (1 yr): \$0 – \$3,900/yr

Production Technician

Median Salary: \$57,150
Job Growth (10 yr): 1.5%
Annual Openings: 70
Average Tuition (2 yrs): \$3,900/yr

Manufacturing Engineer

Median Salary: \$70,940
Job Growth (10 yr): 2.7%
Annual Openings: 146
Average Tuition (4 yrs): \$9,600/yr



Workplace Visits
Job Shadow
Internship
Work

Supervised Experience

Work

Supervised Experience
Internship

Work

Internship

Work

Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
gainful employment and/or postsecondary study.

 Ohio In-demand Occupations

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.



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Secondary Pathway: **Manufacturing Operations**

Postsecondary Program: **Systems Technology**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre-Engineering Technologies		
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Manufacturing Operations	World Languages	
	11	English III	Algebra II	Chemistry	U.S. History	CNC Technology	Machine Tools	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Computer Integrated Manufacturing	Robotics		
Postsecondary	Year 1 1st Semester	English Composition	College Algebra	Computer Applications	Environmental Health & Safety	Operations Management I	Print Reading & Sketching		
	Year 1 2nd Semester	Technical Writing	Statistics	Quality Management Systems	Manufacturing Processes	Operations Management II	Human Relations in the Workplace		
	Year 2 1st Semester	Communication	Labor Relations	Effective Management	CNC Programming	Lean Systems			
	Year 2 2nd Semester	Psychology	Manufacturing Automation	Machine Reliability	Problem Solving & Decisions				

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

Course titles and sequences will vary between schools.

6/2015