Manufacturing Technologies Career Pathway

Start Pre-Manufacturing
As early as grade 7 (based on readiness)

Production Laborer
Median Salary: $23,720
Job Growth (10 yr): 7.4%
Annual Openings: 503
Average Tuition (1 yr): $0 – $3,900/yr

Production Team Lead
Median Salary: $42,470
Job Growth (10 yr): 20%
Annual Openings: 308
Average Tuition (2 yrs): $3,900/yr

Industrial Safety Engineer
Median Salary: $75,560
Job Growth (10 yr): 13.5%
Annual Openings: 26
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.
### Manufacturing Technologies Career Pathway

**Secondary Pathway:** Manufacturing Operations  
**Postsecondary Program:** Systems Technology

#### An Example of Courses with Secondary and Postsecondary Credits

<table>
<thead>
<tr>
<th>Year</th>
<th>1st Semester</th>
<th>2nd Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English Composition</td>
<td>Technical Writing</td>
</tr>
<tr>
<td></td>
<td>College Algebra</td>
<td>Statistics</td>
</tr>
<tr>
<td></td>
<td>Computer Applications</td>
<td>Quality Management Systems</td>
</tr>
<tr>
<td></td>
<td>Environmental Health &amp; Safety</td>
<td>Manufacturing Processes</td>
</tr>
<tr>
<td></td>
<td>Operations Management I</td>
<td>Operations Management II</td>
</tr>
<tr>
<td></td>
<td>Print Reading &amp; Sketching</td>
<td>Human Relations in the Workplace</td>
</tr>
<tr>
<td>Year 2</td>
<td>Communication</td>
<td>Labor Relations</td>
</tr>
<tr>
<td>1st Semester</td>
<td>Effective Management</td>
<td>CNC Programming</td>
</tr>
<tr>
<td></td>
<td>Lean Systems</td>
<td></td>
</tr>
<tr>
<td>Year 2</td>
<td>Psychology</td>
<td>Manufacturing Automation</td>
</tr>
<tr>
<td>2nd Semester</td>
<td>Machine Reliability</td>
<td>Problem Solving &amp; Decisions</td>
</tr>
</tbody>
</table>

### High School Career-Technical Education Program Courses

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

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Recommended Electives</th>
</tr>
</thead>
</table>

Visit education.ohio.gov/CareerConnections for reference information.  
Course titles and sequences will vary between schools.