



Sault Area Public Schools  
*A Great Place to Learn*



MANUFACTURING

# PATHWAY

ACADEMIC AND CAREER PLANNING

# Pathway to Success

## Manufacturing



A career in Manufacturing offers the chance to play a key role in producing goods that drive industries and economies. With a variety of paths, from production and engineering to quality control and logistics, this field blends innovation, technology, and practical problem-solving.

### **Career Options**

Explore and discover potential career options in the fields related to manufacturing.

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### **Degree, Certification, and Training Options**

Explore the degrees, certifications and training options that are available to help you be successful in the fields related to manufacturing.

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### **Course/CTE Options**

Explore the course and program options that are available to students while still in high school to help them prepare for a career in manufacturing.

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### **Resume Builders**

Explore the possible experiences that will help build a strong resume.

# Career Options

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Manufacturing

There are several ways to start a career in Manufacturing. The quickest is through on-the-job training, where you learn skills while working. Another option is earning a certification, which typically takes a few months to a year. For those seeking more education, a college degree can take 2 to 6 years. Below are some examples of options for each pathway, though this list is not exhaustive.

## 01 Jobs That Require On-The-Job Training

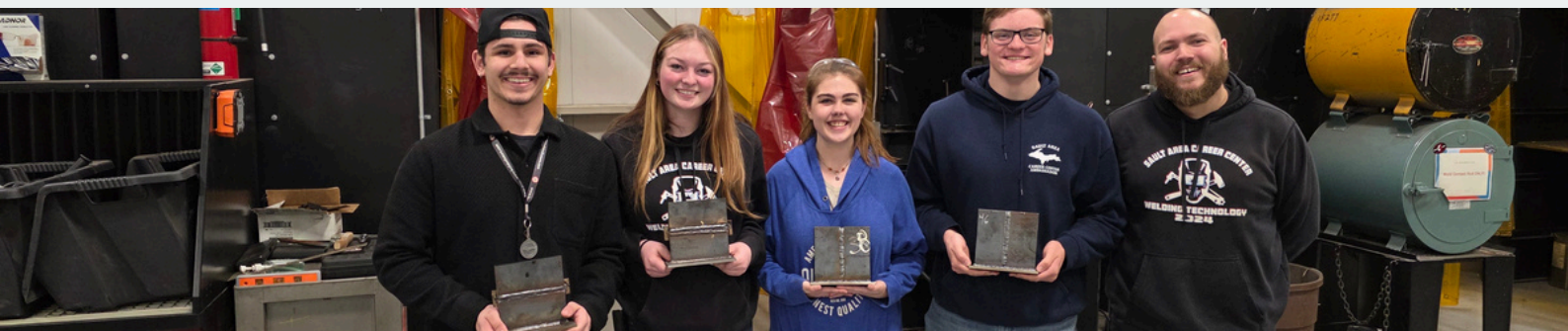
- Assembly Line Worker
- Machine Operator
- Warehouse Worker
- Quality Control Inspector
- Maintenance worker
- Woodshop Technician
- Machinist
- Woodworker

## 02 Jobs that Require a Certification

- Certified Welder
- CNC Operator
- Lathe Operator
- Certified Forklift Operator
- Certified Maintenance Technician

## 03 Jobs That Require A Degree

- Welding Engineer
- Materials Engineer
- Furniture Designer
- CNC Programmer
- Manufacturing Project Manager





# Finding On-The-Job Training

## Manufacturing



On-the-job training is an excellent way to start a career in Manufacturing, allowing you to gain valuable skills while working. This hands-on training is tailored to the specific job, so you can begin gaining experience right away. Many employers in the manufacturing sector, including factories, production plants, and industrial companies, offer on-the-job training programs. To find opportunities, check local job listings, visit company websites, or connect with industry associations that can help link you to employers offering this type of training.

## Resources

### **Michigan Works**

Michigan Works has resources that can help locate available jobs and aide in your necessary training.

1118 East Easterday Avenue

Sault Ste. Marie, MI 49783

Phone: (906) 635-1752

Fax: (906) 635-0115

Michigan Relay Center 711

Monday through Friday: 8-5 EST

### **Indeed**

Indeed is a great tool to search for available jobs in your area.

# Manufacturing

## Obtaining a Certificate

### Certificate Programs

#### Mid Michigan College

[Machine tool - Certificate](#)

[Advanced Integrated Manufacturing  
Pre apprenticeship](#)

[Electrical Apprenticeship](#)

[Manufacturing - Pre Employment](#)

[Welding - Certificate](#)

[Welding Pre apprenticeship](#)

#### Oakland Community College

[Machine Tool Technology - Certificate](#)

[Welding/Fabrication Level 1 - Certificate](#)

[Welding/Fabrication Level 2 - Certificate](#)

Certificate programs in Manufacturing offer specialized training that can be completed in a few months to a year. These programs provide essential skills and credentials that can help advance your career in the manufacturing industry. You can find certificate programs at community colleges, technical schools, and through online platforms. Many industry organizations also offer certifications in areas such as production management, quality control, and industrial safety. To explore your options, check local educational institutions, online course providers, or professional associations related to manufacturing.

# Manufacturing Obtaining a Degree

## Bachelor/Associate Degrees

### **Baker College**

[Mechatronics - Associate](#)

### **Mid Michigan College**

[Machine Tools - Associate](#)

[Advanced Integrated Manufacturing  
Plastics - Associate](#)

[Advanced Integrated Manufacturing  
Management - Associate](#)

[Welding - Associate](#)

[Manufacturing Engineering-  
Technology - Associate](#)

### **Oakland Community College**

[Industrial Technology\\_  
Technological Apprentice](#)

[Machine Tool Technology - Associate](#)

### **Northern Michigan University**

[Electrical Engineering - Bachelor](#)

### **Lake Superior State University**

[Electrical Engineering - Bachelor](#)

Degree programs in Manufacturing provide in-depth knowledge and training, typically taking four to six years to complete. These programs cover a wide range of topics, including production processes, industrial engineering, quality control, and supply chain management, and can open doors to advanced career opportunities. You can find degree programs at universities, colleges, and specialized institutions, with options for both on-campus and online learning. Many schools offer bachelor's and master's degrees in fields like industrial engineering, manufacturing management, and operations research. To explore options, visit university websites, consult academic advisors, or research programs through professional organizations in manufacturing.

# Courses/CTE Options

## Manufacturing

Plan your schedule with your future goals in mind by exploring common courses, AP courses, CTE programs, and opportunities to earn college credit while still in high school.

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### Sault High Courses

- AMPED Algebra 1
  - Chemistry
  - Career Readiness
  - Geometry in Construction
  - Physics
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### AP Courses

- AP Computer Science
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### CTE Programs

- Machining
  - Welding
  - Woodworking
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### Dual/Concurrent Enrollment

- College Chemistry
  - Other related options can be talked about with your Counselor or visits the information page **[HERE](#)**.
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See Sault High School Full **[Course Offerings](#)**.

# Resume Builders

## **Job Shadow Experiences**

Students who engage in job shadow experiences show proven interest in their future and dedication to their success. If you have questions about job shadowing or want help finding an opportunity contact the MTSS Coordinator.

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## **Intern/Externships**

Internships and externships provide valuable opportunities for high school students to gain real-world experience, develop new skills, and explore potential career paths. These experiences can significantly benefit students, both professionally and personally.

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## **Leadership Positions**

Holding Leadership Positions shows dedication and passion by the student. It also can be a look into the students hobbies.

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## **Student Organizations**

Joining Student Organizations shows a balance in priorities. Please see the Sault Ste Marie **Student Organizations** to find an organization to join!

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## **Volunteer Experiences**

Volunteering is a great way to get experience and explore post-secondary options.

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