



Advanced Manufacturing Career Pathway (IAC Code 15.06)  
North Central WI Region  
2024-2027



Educational Level (May require work experience, experience which could assist with advancement, and educational levels may vary by employer)	Production, Fabrication and Quality Assurance	Engineering, Design and Automation	Industry 4.0	Industrial Maintenance	Supply Chain	Health, Safety, and Environmental Assurance
High School Diploma/Equivalency	Engine/Machine Assembler ★ ● General Laborer Shipping & Receiving Clerk ● Finishing (Paint Tech, Sand/Bead Blasting) ● Packager ★ Assembly ● Maintenance Mechanic ★ ●					
Additional Training, Certification or Technical Diploma	CNC Machinist ★ ● Welder ★ ● Industrial Electrician Industrial Machinery Mechanic ★ Production Technician ● Quality Control Analysts ● Field Service Technician	Quality Assurance Technician ● Electronic Service Technician Solderer ★	Quality Assurance Technician Solderer Robotic Welder Robotics Technician ●	Electrical Engineering Technician ★ ● Industrial Engineering Technician ● Industrial Maintenance Mechanic ★ ●	Robotics Technician ● Inventory Control Production Planner	Environmental Specialist Industrial Engineering Technician ●
Registered Apprenticeship	CNC Technician ● Electrical and Instrumentation Technician Electrical Discharge Machining Technician Industrial Electrician ● Industrial Manufacturing Technician ● Industrial Pipefitter ● Instrument Mechanic Lubrication Technician Machinist ● Machine Repairer ★ Maintenance Mechanic ★ ● Maintenance Technician ● Mechatronics Technician ● Millwright Mold Maker Sheet Metal - Industrial ● Tool Maker Tool and Die Maker ● Welder-Fabricator ★ Millwright/Pipefitter ● Pattern Maker					
Associate Degree (or equivalent experience)	Manufacturing Machine Operator ● CNC Programmer ★ ● Manufacturing Technician ● Welder ★ ● Millwright ● Industrial Machinery Mechanic ● Food Science Technician ● Industrial Electrician ●	Electrical Designer Mechanical Designer Electronics Technician ● CNC Programmer ★ ●	Integration Specialist Cybersecurity Specialist ● Electronics Engineering Technician ● Computer Network Specialist ● Manufacturing Engineer Technician ● Business Analyst ●	Maintenance Manager ★ Robotics Programmer ● Mechanical Engineering Technician ● Electrical Engineer Technician ★ ● Electro-mechanical Technician ★	Logistics Analyst ● Materials Planner Materials Manager Purchasing Agent ●	Environmental Health and Safety Leader ●
Bachelor Degree and Beyond	Manufacturing Manager ● Operations Manager ● Quality Control Systems Managers ● Industrial Engineer ● Manufacturing Engineer ●	Electrical Engineer ★ ● Automation Engineer ● Mechanical Engineer ● Quality Assurance Engineer ● Product Designer Process Engineer Chemical Engineer ●	Data Scientist ● Quality Assurance Engineer ● Automation Leader ● Process Engineer Business Intelligence Analyst Computer Scientist ● Computer Systems Engineer	Industrial Engineer ● Manufacturing Engineer ● Electrical Engineer ★ ●	Buyer ● Supply Chain Analyst ● Procurement Manager ● Data Warehouse Analyst Import/Export Specialist ● Logistics Manager ●	Environmental Engineer ● Safety Team Leader ● Safety Engineer ● Ergonomist ●
Postsecondary Options	Click <a href="#">HERE</a> for Postsecondary Options					

★ BRIGHT OUTLOOK = these jobs are expected to grow in the future ● XELLO = you can learn more and save this job in Xello (note: some job titles might look a little different in Xello)



Advanced Manufacturing Career Pathway (IAC Code 15.06)  
At Elcho High School



A career pathway in high school must include:

- A sequence of courses (including at least 2 CTE courses)
- Two of the following components: *Career and Technical Student Organization, Work-based Learning, Industry Recognized Credential, College Credit Opportunity*

**Career and Technical Education Courses**  
(Wisconsin Standards for Technology and Engineering)

- Intro to Tech Ed
- Welding I
- Welding II
- Manufacturing & Engineering

**Other Recommended Courses**  
(Wisconsin Career Readiness Standards)

- Technical Math

**Career and Technical Student Organization**

**Work-Based Learning Options**

- **Youth Apprenticeship-Manufacturing** (450 hrs and 1 high school or 3 college related instruction credits/year; 1-2 years)

**Industry Recognized Credential Options**

- **Production, Fabrication and Quality Assurance**

- **Engineering, Design and Automation**

- **Industry 4.0**

- **Industrial Maintenance**

- **Supply Chain**

**Health, Safety, and Environmental Assurance**

**College Credit Opportunities**

(You can find the list of college credit opportunities [HERE](#). Identify the school and then click "college credit opportunities")

**College Courses Offered at Your High School**

**Transcripted Credit**

- SMAW Welding, Nicolet College

**AP and/or IB Courses**

**College Courses You Can Take at a College Campus**

Application Deadlines:

October 1st: Spring Courses

February 1st: Summer Courses (ECCP only)

March 1st: Fall Courses

**Start College Now**

**Early College Credit Program**