



Pathways Wisconsin
Advanced Manufacturing Technology
 New North Regional High School Career Pathway



CAREERS POSSIBLE

	Production	Engineering & Design	Industry 4.0	Electro-Mechanical	Supply Chain
HS Diploma	Assembler Data Entry Clerk General Laborer Material Handler Packager				
Certificates	Paint Technician Food Processing Operator Welder	CAD Drafter	Robotic Welder	Electronics Technician	Shipping and Receiving
<u>Military</u>	Communications Equipment Repairers Computer Repairers Electrical Instrument and Equipment Repairers Machinists, Non-Destructive Testers Power Plant Electricians Power Plant Operators Powerhouse Mechanics , Precision Instrument and Equipment Repairers Preventive Maintenance Analysts Radar and Sonar System Repairers, Survival Equipment Specialists Tactical Data System Repairers Weapons Maintenance Technicians Welders and Metal Workers				
<u>Registered Apprenticeship</u>	CNC Technician, Industrial Pipefitter, Tool Maker, Tool and Die Maker, Welder-Fabricator, Pattern Maker, Sheet Metal - Industrial, Machinist	Mold Maker	Mechatronics Technician Electrical Discharge Machining Technician	Industrial Electrician, Electrical and Instrumentation Technician, Millwright, Industrial Manufacturing Technician, Millwright/Pipefitter, Instrument Mechanic, Lubrication Technician, Machine Repairer, Maintenance Mechanic, Maintenance Technician	
Technical Diploma	Machine Setter and Operator Machine Builder Metal Fabricator Production Technician	Mold Technician Quality Assurance Technician	Quality Control Technician Process Control Technician	Electrical and Instrumentation Technician Industrial Engineering Technician Industrial Maintenance Mechanic	Robotics and Material Handler Technician Inventory Control
Associate Degree	CNC Programmer CNC Machine Operator	Mechanical Designer (CAD)	Automation Engineer Technician Network or Cybersecurity Specialist Manufacturing Engineer Technician Software Developer Business Analyst	Mechanical Engineering Technician Electrical Engineer Technician Electromechanical Technician	Buyer Production Planner Logistics Analyst
Bachelor Degree	Manufacturing Manager Operations Manager	Electrical Engineer Mechanical Engineer Environmental Engineer	Process Engineer Systems Engineer Business Intelligence Analyst Chemical Engineer	Industrial Engineer Manufacturing Engineer Electromechanical Engineering Technologist	Supply Chain Analyst Procurement Manager





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HIGH SCHOOL OPTIONS

High schools offering a Regional Career Pathway need to include one option from each of the four elements. Students can get a head start in high school by completing 3 of the 4 pathway elements in a Regional Career Pathway.

To see the **POST SECONDARY PATHWAY OPTIONS** for this pathway, [click HERE](#).

ELEMENT 1: Sequence of Courses

- Must offer a sequence of three courses
- Course should include the [Education Building Blocks for this pathway](#)

ELEMENT 2: State Certified Work-Based Learning Program

- [Employability Skills](#) (90 hrs)
- Youth Apprenticeship (450-900 hrs/1-2 years)
 - Manufacturing**
 - Production
 - Production Operations Management
 - Maintenance, Installation and Repair
- Local Internship/Co-Op (90+ hrs/1 year) **IF State Approved**
- [WBL Guide](#)

ELEMENT 3: Dual College Credit Opportunities

To see a list of Dual College Credit Opportunities for this pathway, click on the links below

- [College Credit Technical College Options](#)
- College Credit University: [Early College Credit Program \(ECCP\)](#), [CAPP](#)

[Advanced Placement \(AP\) Course and Required Scores](#)

- [UW Green Bay](#) Calculus AB(3,4,5), Calculus BC (3,4,5), Physics 1(4,5), Physics 2(4,5), Physics C Mechanics (4,5), Physics C Electricity & Magnetism (4,5), Biology (3,4,5), Chemistry(3,4,5), Statistics (3,4,5)
- [UW Oshkosh](#) Calculus AB(3,4,5), Calculus BC (3,4,5), Physics 1(4,5), Physics 2 (4,5), Chemistry(3,4,5), Biology (3,4,5),

Related Career Awareness and Exploration Experiences

- [First Robotics](#)
- [Wisconsin SkillsUSA](#)
- [Hour of Code](#)
- [Wisconsin Manufacturing Month](#) (October)

ELEMENT 4: Industry Recognized Certifications

[American Welding Society \(AWS\)](#) *

- Level 1: Entry Welder

[Certified Solidworks Associate](#)

[Lean Six Sigma \(ASQ\)](#)

[Manufacturing Skills Standards Council \(MSSC\)](#) *

- Certified Production Technician (CPT) full program or any of the modules

[NC3 Industry 4.0 and Mechatronics](#)

[OSHA 10 -General Industry Version](#)

[National Institute for Metalworking Skills \(NIMS\)](#)

- Industrial Technology Maintenance Level 1 (any)
- Machining Level I (any) *
- Metalforming Level I *

[Smart Automation Certification Alliance \(SACA\)](#)

- Associate level (any)

[Snap On](#) *

- [Precision Measurement Instruments Certification](#)
- [Multimeter](#)
- [Mechanical and Electronic Torque Certification](#)

[The Association for Packaging and Processing Technologies \(PMMI\) Mechatronics Certification](#)

*Approved for CTE Incentive Grants

