



Advanced Manufacturing Career Pathway

North-Central Wisconsin Region

Tomahawk High School - 2022-2024



EXPLORE: Click on the links to find the job titles that seem most interesting to you to learn more! Save any jobs you are interested in from this career pathway in your XELLO account so that you can create an Academic and Career Plan (ACP) later on.

Educational Level May also require work experience	Production	Engineering and Design	Industry 4.0	Electro-Mechanical	Supply Chain
High School Diploma, Certification	Engine/Machine Assembler ◦ Data Entry Clerk ◦ General Laborer * Machine Operator Material Handler * Shipping & Receiving Clerk * ◦ Packager Range \$19,500 - \$57,000				
Certification or Technical Diploma	Paint Technician * Food Processing Operator Welder * ◦ Machine Setter & Operator ◦ Machine Assembler Sheet Metal Worker * ◦ Production Technician Range \$21,750 - \$90,000	CAD Drafter ◦ Quality Technician * ◦ Mold Technician Range \$24,000-\$92,000	Robotic Welder * Quality Technician ◦ * Robotics Technician * Controls Technician Range \$30,000 - \$97,000	Electrical and Instrumentation Tech ◦ Industrial Engineering Tech ◦ Industrial Maintenance Mechanic * ◦ Electronics Technician ◦ Range \$34,000 - \$97,000	Robotics and Material Handler Technician * Inventory Control Shipping and Receiving ◦ Range \$21,400 - \$51,500
Registered Apprenticeship	CNC Technician Industrial Pipefitter * ◦ Tool and Die Maker ◦ Pattern Maker Welder-Fabricator ◦ Industrial Engineering Technician ◦ Sheet Metal Worker - Industrial * ◦ Range \$28,000-\$100,000	Mold Maker Range \$25,000-\$53,000	Mechatronics Technician Electrical Discharge Machining Technician * Machinist * ◦ Range \$35,000 - \$99,000	Millwright * ◦ Industrial Electrician * Electrical/Instrumentation Technician ◦ Instrument Mechanic * Lubrication Technician * Maintenance Mechanic * ◦ Range \$24,600 - \$97,000	
Associate Degree	CNC Programmer * CNC Machinist * ◦ Range \$36,000-\$89,000	Industrial Designer ◦ Industrial Hygienist ◦ Range \$35,000-\$144,000	Electronics Engineering Tech ◦ Automation Engineer Tech Network or Cybersecurity Specialist * ◦ Business Systems Analyst * ◦ Chemical Engineering Tech ◦ Software Developer * Range \$31,000 - \$165,000	Mechanical Engineering Technician ◦ Electrical Engineer Technician ◦ Electro-mechanical Technician Maintenance Planner Range \$30,000 - \$97,000	Production Planner Logistics Analyst ◦ Range \$30,000-\$120,000
Bachelor Degree and beyond	Operations Manager * Front Line Supervisor * Safety Engineer Environmental Engineer ◦ Quality Manager * Warehouse Manager Range \$30,000-\$208,000	Electrical Engineer * ◦ Mechanical Engineer ◦ Environmental Engineer ◦ Quality Engineer * ◦ Paper Science Engineer Chemical Engineer ◦ Range \$30,000-\$161,000	Process Engineer Business Intelligence Analyst * Computer Scientist * ◦ Systems/Reliability Engineer * Systems App Developer * Research and Development Computer Systems Analyst * Range \$40,000 - \$190,000	Industrial Engineer * ◦ Manufacturing Engineer * Electromechanical Engineering Technologist Maintenance Manager/Superintendent ◦ Range \$35,000 - \$176,000	Supply Chain Manager Procurement Manager Data Warehouse Analyst * Buyer Forest Products Buyer Distribution Center Manager Range \$38,000-\$193,000
Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options	Click HERE for Postsecondary Options

* **BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!
 ◦ **XELLO** = you can learn more and save this job in your Xello account (note: some job titles might look a little different in Xello)



Advanced Manufacturing Career Pathway at Tomahawk School District



Your Academic and Career Plan (ACP) for this career pathway starts here...

Use this page to figure out which classes and activities you will take to prepare for this career pathway. Record your plan in XELLO.

Career and Technical Education Courses	Must include a sequence of at least TWO Career and Technical Education courses which are taught ONLY by licensed CTE teachers. <ul style="list-style-type: none"> • Intro to Engineering Design • Principles of Engineering • Engineering Design Capstone • General Metals • Technical Metals • Metals Fabrication 				Start creating your professional network through CAREER EXPLORATION PROGRAMS . Record your experiences in XELLO.
Other Recommended Courses					<u>State:</u> <ul style="list-style-type: none"> • Inspire contacts in Xello platform <u>Regional:</u> <ul style="list-style-type: none"> • Heavy Metal Tour (Nicolet College) • CWIMA Welding and Machine Tool Contest • The Branch Academy (NTC) • NTC Summer Camp
Career and Technical Student Organization	SkillsUSA				
Work-Based Learning Options	<ul style="list-style-type: none"> • Youth Apprenticeship - Manufacturing Pathway (450+ hours per year) 				
Industry Recognized Credential Options <i>Italics = must be 18 years old to obtain</i>	Production				
OSHA 10					
Miller Courses: <ul style="list-style-type: none"> - Introduction to Welding - Gas Metal Arc Welding (MIG) - Gas Tungsten Arc Welding (TIG) - Shielded Metal Arc Welding (Stick) Hobart Brothers Course – Base Metals and Filler Metals					
College Credit Opportunities You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .	College Courses Offered at Your High School				
Transcripted Credit (Nicolet College) <ul style="list-style-type: none"> • Intro to Engineering Design • Principles of Engineering • Thermal Cutting • Welding for Automotive 					