

## Advanced Manufacturing Career Pathway New North 2020-2021



**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,	Engine/Machine Assembler , <u>Data Entry Clerk</u> , <u>General Laborer</u> , <u>Packager Material Handler</u> Range \$23,750-\$50,130									
Certificates	<u>Operator</u>	CAD Drafter	Robotic Welder ★	Electronics Technician *	Shipping & Receiving Clerk					
Technical Diploma	Paint Technician * Food Processing Operator Welder * Sheet Metal Worker * Production Technician * Range \$27,300-\$66,380	Quality Assurance Technician * Mold Technician *  Range \$29,730-\$76,570	Quality Controller ★ Robotics Technician ★ Range \$32,010-79,800	Electrical Engineering Tech * Industrial Engineering Tech * Industrial Maintenance Mechanic * Range \$36,480-88,050	Robotics and Material Handler Technician Inventory Control *  Range \$24,340-\$56,800					
Registered Apprenticeship	Industrial Pipefitter * Tool and Die Maker * Pattern Maker Machinist *  Range \$32,930-\$83,680	Mold Maker  Range \$24,400-52,570	Electrical Discharge Machining Technician  Range \$39,190-\$96,690	Millwright * CNC Technician * Industrial Electrician * Industrial Machinery Technician Maintenance Mechanic * Mechatronics Technician * Range \$33,940-\$83,950						
Associate Degree	CNC Programmer * CNC Machine Operator *  Range \$26,400-57,800	Mechanical Designer (CAD) *  Range \$36,300-92,000	Electronics Engineering Tech Computer Network Specialist Manufacturing Engineer Tech Business Analyst * Chemical Engineering Tech Range \$39,400-105,780	Mechanical Engineering Technician Electrical Engineer Technician Electro-mechanical Technician Range \$36,700-93,000	Buyer Production Planner Logistics Analyst Range \$37,500-101,300					
Bachelor Degree and beyond	Manufacturing Manager ★ Operations Manager  Range \$55,000-192,000	Electrical Engineer  Mechanical Engineer  Environmental Engineer  Quality Controller *  Range \$51,240-129,420	Process Engineer/Systems Engineer ★ Business Intelligence Analyst Chemical Engineer Computer Scientist ★ Range \$61,660-165,487	Industrial Engineer  Manufacturing Engineer  Electromechanical Engineering Technologist  Range \$60,150-145,000	Supply Chain Analyst Procurement Manager ★ Data Warehouse Analyst ★  Range \$59,700-167,186					
Postsecondary Options	Click <u>HERE</u> for Postsecondary Options	Click <u>HERE</u> for Postsecondary Options	Click <u>HERE</u> for Postsecondary Options	Click <u>HERE</u> for Postsecondary Options	Click <u>HERE</u> for Postsecondary Options					

**BRIGHT OUTLOOK** = these jobs are expected to grow in the future – which means more opportunities for you!



## **Manufacturing Career Pathway**



NEW North Region – Sheboygan Area 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	<ul> <li>Materials &amp; Processes</li> <li>Exploring Robotics &amp; Automation</li> <li>Electricity, Electronics &amp; Automation</li> <li>Metals Fab Lab</li> </ul>				Start creating your professional network through CAREER EXPLORATION PROGRAMS. Record your experiences in XELLO.				
Other Recommended Courses	Advanced Metals Fab Lab    Red Raider Manufacturing				Regional:  • Virtual Career Events  • First Robotics  • Hour of Code				
Career and Technical Student Organization	• <u>Red Raider Robo</u>	<u>tics</u>	<ul> <li>Wisconsin Manufacturing Month</li> <li>LTC Summer Camps</li> <li>Moraine Park Summer Manufacturing Bootcamp</li> <li>UWGB Summer Camps</li> </ul>						
Work-Based Learning Options	• Local Internship/Local requirements  • Technology Educal students enrolled 15 hours of work placement is deput workstations.  • Industrial Equipment industrial mainted their sophomore courses (4 colleged Transportation of their sassigned to their counselor in Technical Colleged Transportation of their counselor in t	hip-Manufacturing /(450 hrs/ al Work-based Learning Progration Co-op — This is a year cod in an advanced technology exweekly with a local industry (vendent upon student interview ment Youth Apprenticeship — For ance. Students apply through or junior year and attend three credits) that align with their must be available for travel to versuldent at the job site. Machining Youth Apprenticeship is early March of their sophomie courses that align with their must be available for travel to versuldent at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for the student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For students for a student at the job site. Apprenticeship — For student at the job site. Ap	f 5-ent er in n of entor gh hore entor	•NWTC Career Events Local:  •LTC Manufacturing Rocks •Inspire Sheboygan County					
Industry Recognized Credential Options	Production	Engineering and Design	Industry 4.0	Ele	ectro-Mechanical	Supply Chain			
Italics = must be 18 years old to obtain			OSHA 10-General Industr		_				
*This certification is eligible for reimbursement through the technical incentive grant.	American Welding Society (AWS) Level 1 Entry Welder * Manufacturing Skills Standards Council- Certified Production Technician (full program or any of the modules) * National Institute for Metal Working Skills (NIMS)-  • Industrial Technology Maintenance Level 1, • Machining Level * • Metalforming Level 1*	NC3 Snap-on Multimeter The Association for Packaging and Processing Technologies Mechatronics Certification Certified Solidworks Associate Snap On-Precision Measurement Instruments, Multimeter, Mechanical and Electronic Torque Certification *	Smart Automation Certification Alliance (SACA)-Associate Level NC3 Industry 4.0 and Mechatronics  NC3 Snap-on Torque	Mech NC3 S NC3 S	Industry 4.0 and latronics Snap-on Torque Snap-on meter	Lean Six Sigma (ASQ) MSSC-Certified Logistics Technician (CLT)			
College Credit Opportunities	College Courses Offered at Your High School								
You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE	Lakeshore Technical College, Metals FabLab 2     Lakeshore Technical College, Advanced Metals FabLab 2								
	Octo	<b>Co</b> ber 1st: Spring Courses	eadlines	College Campus s: es (ECCP only)	March 1st: Fall Courses				
	Start College Now  Lakeshore Techn Introduction  Lakeshore Techn Fundamentals  Lakeshore Techn 1	<ul> <li>Early College Credit Program</li> <li>University of Wisconsin-Green Bay, Parametric Modeling</li> <li>University of Wisconsin-Green Bay, Engineering Materials</li> <li>University of Wisconsin –Green Bay, Mechanics I</li> </ul>							
						2021-2022			