



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 ○, Data Entry Clerk ○, General Laborer , Packager Material Handler Range \$23,750-\$50,130				
Certification/ Technical Diploma	Operator Paint Technician * Food Processing Operator Welder * Sheet Metal Worker ○ * Production Technician * Range \$27,300-\$66,380	CAD Drafter Quality Assurance Technician * Mold Technician * Range \$29,730-\$76,570	Quality Controller ○ * Robotics Technician * Robotic Welder * Range \$32,010-79,800	Electronics Technician ○ * Electrical Engineering Tech ○ * Industrial Engineering Tech ○ * Industrial Maintenance Mechanic ○ * Range \$36,480-88,050	Shipping & Receiving Clerk 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 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 In 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	Must include a sequence of at least TWO Career and Technical Education courses. Should align with Education Building Blocks for the pathway: <ul style="list-style-type: none"> • • • 				CAREER EXPLORATION PROGRAMS	
Additional Employer Recommended Courses	Should align with Education Building Blocks for this pathway: <ul style="list-style-type: none"> • • 					
Career and Technical Student Organization	SkillsUSA					
Work-Based Learning Program Options	<ul style="list-style-type: none"> • Employability Skills (90 hrs) • Youth Apprenticeship-Manufacturing /(450 hrs/year; 1-2 years) • Local Internship/Local Work-based Learning Programs that meet state quality requirements 				Regional: <ul style="list-style-type: none"> • Virtual Career Events • First Robotics • Wisconsin SkillsUSA • Hour of Code • Wisconsin Manufacturing Month • FVTC Summer Camps • LTC Summer Camps • Moraine Park Summer Manufacturing Bootcamp • UWGB Summer Camps • NWTC Career Events 	
	Production	Engineering and Design	Industry 4.0	Electro-Mechanical		Supply Chain
Industry Recognized Credential Options Learn the skills that employers want to see! <i>Italics = must be 18 years old to obtain</i> <i>*This certification is eligible for reimbursement through the technical incentive grant</i>	<u>OSHA 10-General Industry Version</u>					
	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)- <ul style="list-style-type: none"> • Industrial Technology Maintenance Level 1 • Machining Level * • Metalforming Level 1 * 	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 Industry 4.0 and Mechatronics		Lean Six Sigma (ASQ) MSSC-Certified Logistics Technician (CLT)
College Credit Opportunities	You can find the list of college credit opportunities included in the postsecondary options for this pathway HERE .					