



Advanced Manufacturing Career Pathway

New North Region

Coleman High School 2021-2022



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				
Certificates	Operator	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 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 Coleman High School



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 style="list-style-type: none"> • Introduction to Metal Manufacturing • Metals I • Shielded Metal Arc Welding 1 (SMAW 1) • Gas Metal Arc Welding 1 (GMAC 1) • Machine Shop • Computer Aided Machining • Introduction to Engineering & Design 					Start creating your professional network through CAREER EXPLORATION PROGRAMS . Record your experiences in XELLO.				
Other Recommended Courses	<ul style="list-style-type: none"> • English Composition- NWTC or Practical Communications • Math Trades 1 & 2 - NWTC or Intermediate Algebra w/Applications- NWTC • Computer Applications- NWTC 					Regional: <ul style="list-style-type: none"> • Virtual Career Events • First Robotics • Wisconsin SkillsUSA • Hour of Code • Wisconsin Manufacturing Month Local: <ul style="list-style-type: none"> • Manufacturing Month Career Speakers • NWTC Manufacturing Tour 				
Career and Technical Student Organization										
Work-Based Learning Options	<ul style="list-style-type: none"> • Youth Apprenticeship (450-900 hours/1-2 years) • Coleman High School Job Shadow program, 90 hours 									
Industry Recognized Credential Options <i>Italics = must be 18 years old to obtain</i>	Production	Engineering and Design	Industry 4.0	Electro-Mechanical	Supply Chain					
	OSHA 10- General Industry Version									
			Snap On-Precision Measurement Instruments, Multimeter, Mechanical and Electronic Torque Certification							
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 <ul style="list-style-type: none"> • Shielded Metal Arc Welding 1 (SMAW 1) • Gas Metal Arc Welding 1 (GMAC 1) 			Transcripted Credit <ul style="list-style-type: none"> • Computer Applications • Intermediate Algebra w/Applications 						
	College Courses You Can Take at a College Campus									
	October 1st: Spring Courses		February 1st: Summer Courses (ECCP only)		March 1st: Fall Courses					
Start College Now Northwoods Partnership Program- Welding Technical Diploma - NWTC - Material Cutting Applications, - Shielded Metal Arc Welding 1-3 - Gas Metal Arc Welding 1-3 - Gas Tungsten Arc Welding 1-2			- Flux Cored Arc Welding 1-3 - Metal Fabrication 2-3 - Blueprint Reading for Welders 1-2 - Weld Symbols, NWTC							