

Manufacturing Program of Study

West County High School Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. Ask your high school counselor to help you fill in the required courses you need to graduate.

Grade	English 8 semesters	Math 6 semesters	Science 6 semesters	Social Studies 6 semesters	Other Required Courses, Recommended Electives	Career & Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to this Pathway			
9	Comm Arts I	High School Math	High School Science Course	High School S.S. Course	Personal Finance Computer Science Physics See your counselor for more high school offerings	See your high school counselor for more course offerings	 Assembler Boilermaker Design Engineer Environmental Engineer Foundry Worker Freight, Stock and Material Mover 			
10	Comm Arts II	High School Math	High School Science Course	High School S.S. Course	Personal Finance Computer Science Physics See your counselor for more high school offerings	See your counselor for more high school offerings	 Health and Safety Representative Industrial Machinery Mechanic Inspector Labor Relations Manager Logistician Manufacturing Technician Pattern and Model Maker Production Manager Quality Control Technician Safety Engineer SPC Coordinator Tool and Diemaker Traffic Manager Welder 			
11	Comm Arts III *English Comp I *Public Speaking	High School Math or Pre-Algebra *College Algebra *College Trig	High School Science Course *College General Biology	High School S.S. Course – Government & History *Am. College History I & II *Political Systems	Physics Courses *Personal Finance *Computer Science *See counselor for additional college course offering (Available for Dual Enrollment)	See your high school counselor for more high school offerings *Unitec Programs- Collision Repair Technology, Automotive Technology, Welding Technology, Machine Tool				
12	Senior Comm Arts & Comm Arts elective *English Comp II *Intro to Literature	High School Math or Pre- Algebra *College Algebra *College Trig	High School Science Course *College Oceanograph y, Astronomy or Physics	High School S.S. Course – Government & History *Am. College History I & II *Political Systems	Physics Courses *Personal Finance *Computer Science *See counselor for additional college course offerings (Available for Dual Enrollment)	See your high school counselor for more high school offerings *Unitec Programs – Collision Repair Technology, Automotive Technology, Welding Technology, Machine Tool				
*Dual Credit courses can often be substituted for high school credit. Check with your Counselor.										
*Dual Enrollment courses can be taken online or on a MAC campus.										
Assessments/Certifications: College Placement Assessments, Compass, ACT, SAT Clubs/Extracurricular Activities: Ask your Counselor what is available at your school.										
	$CTSO(s)$: \Box FBLA \Box FFA \Box TSA \Box Skills USA									
· · ·	Work-Based Learning: After School Employment Internship/Mentorship Job Shadowing Service Learning Supervised Business Experience									

Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

	Assembler		Biomedical Equipment		Communications,			
	Automated	Design Engineer	Technician	Calibration	Transportation and	Environmental Engineer		
	Manufacturing	Electrical and Electronics	Boilermaker	Technician	Utilities Manager	Environmental Specialist		
	Technician	Technician and	Communication System		0	Health and Safety		
	Bookbinder	Technologist	Installer/Repairer	Inspector	Dispatcher			
	Calibration Technician	Electronics Engineer	Computer Installer/Repairer	Lab Technician	Freight, Stock, and Material	Representative		
	Electrical Installer and	Engineering and	Computer Maintenance	Process Control	Mover	Safety Coordinator		
	Repairer	Related	Technician	Technician	Industrial Truck and	Safety Engineer		
	Electromechanical Equipment	Technician and		Quality Control	Tractor Operator	Safety Team Leader		
	Assembler		Electrical Equipment	Technician	Logistical Engineer	Safety Technician		
	Extruding and Drawing Machine Setter/Set-Up	Technologist	Installer/Repairer			Safety Technician		
	Operator	Engineering	Facility Electrician	Quality Engineer	Logistician			
Sa	Extrusion Machine Operator	Technician	Industrial Electronic	SPC Coordinator	Material Associate			
m	Foundry Worker	Industrial Engineer	Installer/Repairer		Material Handler			
ple	Grinding, Lapping, and	Labor Relations	Industrial Facilities Manager		Material Mover			
Ω	Buffing Machine	Manager	Industrial Machinery		Process Improvement			
are	Operator	Manufacturing	Mechanic		Technician			
er	Hand Packers and Packager	Engineer	Industrial Maintenance					
$\mathbf{s}_{\mathbf{F}}$	Hoist and Winch Operator	Manufacturing	Electrician		Quality Control Technician			
)ec	Instrument Maker	Technician	Industrial Maintenance		Traffic Manager			
Sample Career Specialties / Occupations	Large Printing Press Machine	Power Generating	Mechanic		Traffic, Shipping, and			
ties	Setter and Set Up Operator	and Reactor Plant	Industrial Maintenance		Receiving Clerk			
/ 8	Machine Operator	Operator	Technician		_			
Q	Manager, Supervisor	Precision Inspector,	Instrument Calibration					
cu	Medical Appliance Maker	Tester, and Grader	and Repairer					
pa	Milling Machine Setter,	Process Improvement	Instrument Control					
tio	Set-Up Operator Millwright	Technician	Technician					
ns	Operator, Tender,	Production Manager	Job/Fixture Designer					
	Cutter/Brazer, Solderer,	Purchasing Agent	Laser Systems Technician					
	Machine Operator	Supervisor	Maintenance Repairer					
	Painter	Supervisor	Major Appliance Repairer					
	Pattern & Model Maker							
	Precision Layout Worker		Meter Installer/Repairer					
	Precision Optical Goods		Millwright					
	Worker		Plumber, Pipefitter					
	Production Associate		and Steamfitter					
	Sheet Metal Worker		Security System					
	Solderer and Brazer		Installer/Repairer					
	Tool and Die Maker							
	Welder							
		Manufacturing						
Path- ways	Production	Production Process	Maintenance, Installation &	Quality	Logistics & Inventory	Health, Safety and		
h- ys		Development	Repair	Assurance	Control	Environmental Assurance		
κ Ω	• Academic Foundations • Communications • Problem Solving and Critical Thinking • Information Technology Applications • Systems • Safety, Health and Environment • Leadership and Teamwork • Ethics and Legal Responsibilities • Employability and Career Development • Technical Skills							
Career K&S								
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	Employating and career Development Teennear Skins							