HIGH SCHOOL PLANNER MANUFACTURING

This information should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this guide are only recommended coursework and should be individualized to meet each learner's education and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

	9th	10th	11th		12th				
	Core Requirements	Core Requirements	Core Requirements		Core Requirements				
	English 9 Secondary Math 1 Science World Geography	English 10 Secondary Math 2 Science World Civilizations	English 11 Secondary Math 3 (PreCalculus) Science U.S. History		English 12 Calculus or Statistics American Gov. & Citizenship				
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충	Required Electives								
S I	PE, The Arts, CTE, Computer Tech., Health, Financial Literacy								
≌	Career Electives (Choose Three Credits)								
-	9th	10th	11th			12th			
	Communication Technology, Intro. to	Computer Upgrade & Repair A+ Electronics I, II, design Technology, Intro to Engineering, Principals of Engineering, Home Building (Carpentry, Electrical, Plumbing)	Auto Mechanics, Design Technology, Computer Upgrade & Repair A+, Occupational Welding, Advanced Technology Education, Metal Work, Machine Shop, Machinist Technician, Welding, Home Building Program (Carpentry, Electrical, Plumbing) Fashion Design						
	GTI	STATE CTE CAREER P	ATHWAYS	Vork Base	ed Learning	CTSO Participation			
Career Enhancement Options	Programming, Intro to Information Technology, Engineering Design & Development, Computer Integrated Manufacturing, Biomanufacturing, Computer Maintenance A+	The state Skilled & Technical Education Pathway guides for consideration: Cabinetmaking/Millwork Tool, Welding and Carpentry. The State Techno these study guides: Pre-Engineering, Project Lea Engineering Program. For more information see: http://www.schools.ut/Programs.aspx	c, Design Technology, Machine logy & Engineering Pathway has d the Way National Pre- lin Ca ah.gov/CTE/main/CTE-	Ask your Career Center Coordinator about Job Shadowing Internships Career Seminars Ask your Career Center You are strongly advised to participate in a Career and Technical Student Organization. The CTSOs associated with this cluster are Skills USA and TSA It depends on your pathway for which one chosen.					
Post Secondary	SLCC School of Applied T Welding (Introduction, Stick Welding, Arc Weldin Welding, Oxy-Acetylene Welding, Tungsten Arc Machinist. See www.slcc.edu/sat	g, Flux Core Engineering Technology - Manul Welding), Mechanical Engineering Techno and Machine Assembler, Wareh Computer Maintenance Technici			College/University Mechanical Engineering, Bio-Engineering, Aerospace Engineering, Manufacturing Lab Technician, Industrial Packaging Engineer, Patent Attorney, Environmental Engineer, Air Quality Analyst, Clothing Designer, Warehouse Supervisor For information about schools offering specific programs see UtahFutures				



Manufacturing Cluster

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.

N.A.										
Sample Career Specialties/Occupations	Assemblers Automated Manufacturing Technicians Bookbinders Calibration Technicians Electrical Installers and Repairers Electromechanical Equipment Assemblers Extruding and Drawing Machine Setters/Set-Up Operators Extrusion Machine Operators Foundry Workers Grinding, Lapping, and Buffing Machine Operators Hand Packers and Packagers Hoist and Winch Operators Instrument Makers Large Printing Press Machine Setters and Set-Up Operators Machine Operators Mailling Machine Setters, Set-Up Operators Milling Machine Setters, Set-Up Operators Millwrights Operators, Tenders, Cutters/Brazers, Soldering, Machine Operations Painters Pattern & Model Makers Precision Layout Workers Precision Optical Goods Workers Precision Optical Goods Workers Production Associates Sheet Metal Workers Solderers and Braziers Tool and Die Makers Welders	 Design Engineers Electrical and Electronic Technicians and Technologists Electronics Engineers Engineering and Related Technicians and Technologists Engineering Technicians Industrial Engineers Labor Relations Managers Manufacturing Engineers Manufacturing Technicians Power Generating and Reactor Plant Operators Precision Inspectors, Testers, and Graders Process Improvement Technicians Production Managers Purchasing Agents Supervisors 	 Biomedical Equipment Technicians Boilermakers Communication System Installers/Repairers Computer Installers/Repairers Computer Maintenance Technicians Electrical Equipment Installers/Repairers Facility Electricians Industrial Electronic Installers/Repairers Industrial Facilities Managers Industrial Machinery Mechanics Industrial Maintenance Electricians Industrial Maintenance Mechanics Industrial Maintenance Technicians Instrument Calibration and Repairers Instrument Control Technicians Job/Fixture Designers Laser Systems Technicians Maintenance Repairers Major Appliance Repairers Meter Installers/Repairers Millwrights Plumbers, Pipe Fitters and Steam Fitters Security System Installers/Repairers 	 Calibration Technicians Inspectors Lab Technicians Process Control Technicians Quality Control Technicians Quality Engineers SPC Coordinators 	 Communications, Transportation and Utilities Managers Dispatchers Freight, Stock, and Material Movers Industrial Truck and Tractor Operators Logistical Engineers Logisticians Material Associates Material Handlers Material Movers Process Improvement Technicians Quality Control Technicians Traffic Managers Traffic, Shipping, and Receiving Clerks 	 Environmental Engineers Environmental Specialists Health and Safety Representatives Safety Coordinators Safety Engineers Safety Team Leaders Safety Technicians 				
Path ways	Production	Manufacturing Production Process Development	Maintenance, Installation & Repair	Quality Assurance	Logistics & Inventory Control	Health, Safety and Environmental Assurance				
Cluster K & S	Cluster Knowledge and Skills ◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems ◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities ◆ Employability and Career Development ◆ Technical Skills									