

**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.**

Sample Career Specialties/Occupations	<ul style="list-style-type: none"> <li>◆ Assembler</li> <li>◆ Automated Manufacturing Technician</li> <li>◆ Bookbinder</li> <li>◆ Calibration Technician</li> <li>◆ Electrical Installer and Repairer</li> <li>◆ Electromechanical Equipment Assembler</li> <li>◆ Extruding and Drawing Machine Setter/Set-Up Operator</li> <li>◆ Extrusion Machine Operator</li> <li>◆ Foundry Worker</li> <li>◆ Grinding, Lapping, and Buffing Machine Operator</li> <li>◆ Hand Packers and Packager</li> <li>◆ Hoist and Winch Operator</li> <li>◆ Instrument Maker</li> <li>◆ Large Printing Press Machine Setter and Set-Up Operator</li> <li>◆ Machine Operator</li> <li>◆ Manager, Supervisor</li> <li>◆ Medical Appliance Maker</li> <li>◆ Milling Machine Setter, Set-Up Operator</li> <li>◆ Millwright</li> <li>◆ Operator, Tender, Cutter/Brazer, Solderer, Machine Operator</li> <li>◆ Painter</li> <li>◆ Pattern &amp; Model Maker</li> <li>◆ Precision Layout Worker</li> <li>◆ Precision Optical Goods Worker</li> <li>◆ Production Associate</li> <li>◆ Sheet Metal Worker</li> <li>◆ Solderer and Brazer</li> <li>◆ Tool and Die Maker</li> <li>◆ Welder</li> </ul>	<ul style="list-style-type: none"> <li>◆ Design Engineer</li> <li>◆ Electrical and Electronics Technician and Technologist</li> <li>◆ Electronics Engineer</li> <li>◆ Engineering and Related Technician and Technologist</li> <li>◆ Engineering Technician</li> <li>◆ Industrial Engineer</li> <li>◆ Labor Relations Manager</li> <li>◆ Manufacturing Engineer</li> <li>◆ Manufacturing Technician</li> <li>◆ Power Generating and Reactor Plant Operator</li> <li>◆ Precision Inspector, Tester, and Grader</li> <li>◆ Process Improvement Technician</li> <li>◆ Production Manager</li> <li>◆ Purchasing Agent</li> <li>◆ Supervisor</li> </ul>	<ul style="list-style-type: none"> <li>◆ Biomedical Equipment Technician</li> <li>◆ Boilermaker</li> <li>◆ Communication System Installer/Repairer</li> <li>◆ Computer Installer/Repairer</li> <li>◆ Computer Maintenance Technician</li> <li>◆ Electrical Equipment Installer/Repairer</li> <li>◆ Facility Electrician</li> <li>◆ Industrial Electronic Installer/Repairer</li> <li>◆ Industrial Facilities Manager</li> <li>◆ Industrial Machinery Mechanic</li> <li>◆ Industrial Maintenance Electrician</li> <li>◆ Industrial Maintenance Mechanic</li> <li>◆ Industrial Maintenance Technician</li> <li>◆ Instrument Calibration and Repairer</li> <li>◆ Instrument Control Technician</li> <li>◆ Job/Fixture Designer</li> <li>◆ Laser Systems Technician</li> <li>◆ Maintenance Repairer</li> <li>◆ Major Appliance Repairer</li> <li>◆ Meter Installer/Repairer</li> <li>◆ Millwright</li> <li>◆ Plumber, Pipefitter and Steamfitter</li> <li>◆ Security System Installer/Repairer</li> </ul>	<ul style="list-style-type: none"> <li>◆ Calibration Technician</li> <li>◆ Inspector</li> <li>◆ Lab Technician</li> <li>◆ Process Control Technician</li> <li>◆ Quality Control Technician</li> <li>◆ Quality Engineer</li> <li>◆ SPC Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>◆ Communications, Transportation and Utilities Manager</li> <li>◆ Dispatcher</li> <li>◆ Freight, Stock, and Material Mover</li> <li>◆ Industrial Truck and Tractor Operator</li> <li>◆ Logistical Engineer</li> <li>◆ Logistician</li> <li>◆ Material Associate</li> <li>◆ Material Handler</li> <li>◆ Material Mover</li> <li>◆ Process Improvement Technician</li> <li>◆ Quality Control Technician</li> <li>◆ Traffic Manager</li> <li>◆ Traffic, Shipping, and Receiving Clerk</li> </ul>	<ul style="list-style-type: none"> <li>◆ Environmental Engineer</li> <li>◆ Environmental Specialist</li> <li>◆ Health and Safety Representative</li> <li>◆ Safety Coordinator</li> <li>◆ Safety Engineer</li> <li>◆ Safety Team Leader</li> <li>◆ Safety Technician</li> </ul>
	Pathways	<b>Production</b>	<b>Manufacturing Production Process Development</b>	<b>Maintenance, Installation &amp; Repair</b>	<b>Quality Assurance</b>	<b>Logistics &amp; Inventory Control</b>
CCTC /Career Ready Practices	<p>The <b>Common Career Technical Core (CCTC)</b> includes a set of standards for each of the 16 Career Clusters™ and their corresponding Career Pathways that define what students should know and be able to do after completing instruction in a program of study. The CCTC also includes an overarching set of <b>Career Ready Practices</b> that apply to all programs of study. The Career Ready Practices include 12 statements that address the knowledge, skills and dispositions that are important to becoming career ready.</p>					