

Manufacturing

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 Specialists/Occupations | Design Engineer Electrical and Electronics Technician and Technologist | Biomedical Equipment Technician Boilermaker Communication System Installer/Repairer Computer Installer/Repairer Computer Maintenance Technician Electrical Equipment Installer/Repairer Facility Electrician Industrial Electronic Installer/Repairer Industrial Facilities Manager Industrial Machinery Mechanic Industrial Maintenance Electrician Industrial Maintenance Mechanic Industrial Maintenance Technician Instrument Calibration and Repairer Instrument Control Technician Job/Fixture Designer Laser Systems Technician Maintenance Repairer Major Appliance Repairer Meter Installer/Repairer Millwright Plumber, Pipefitter and Steamfitter Security System Installer/Repairer | Calibration Technician Inspector Lab Technician Process Control Technician Quality Control Technician Quality Engineer SPC Coordinator | Communications, Transportation and Utilities Manager Dispatcher Freight, Stock, and Material Mover Industrial Truck and Tractor Operator Logistical Engineer Logistician Material Associate Material Handler Material Mover Process Improvement Technician Quality Control Technician Traffic Manager Traffic, Shipping, and Receiving Clerk | Environmental Engineer Environmental Specialist Health and Safety Representative Safety Coordinator Safety Engineer Safety Team Leader Safety Technician |
|---|--|---|--|--|--|
| <ul style="list-style-type: none"> Assembler Automated Manufacturing Technician Boothtender Calibration Technician Electrical Installer and Repairer Electromechanical Equipment Assembler Extruding and Drawing Machine Setter/Set-Up Operator Extrusion Machine Operator Foundry Worker Grinding, Lapping, and Buffing Machine Operator Hand Packers and Packager Hoist and Winch Operator Instrument Maker Large Printing Press Machine Setter and Set-Up Operator Machine Operator Manager, Supervisor Medical Appliance Maker Milling Machine Setter, Set-Up Operator Millwright Operator, Tender, Cutter/Braser, Solderer, Machine Operator Painter Pattern & Model Maker Precision Layout Worker Precision Optical Goods Worker Production Associate Sheet Metal Worker Solderer and Braser Tool and Die Maker Welder | <ul style="list-style-type: none"> Design Engineer Electrical and Electronics Technician and Technologist Electronics Engineer Engineering and Related Technician and Technologist Engineering Technician Industrial Engineer Labor Relations Manager Manufacturing Engineer Manufacturing Technician Power Generating and Reactor Plant Operator Precision Inspector, Tester, and Grader Process Improvement Technician Production Manager Purchasing Agent Supervisor | <ul style="list-style-type: none"> Biomedical Equipment Technician Boilermaker Communication System Installer/Repairer Computer Installer/Repairer Computer Maintenance Technician Electrical Equipment Installer/Repairer Facility Electrician Industrial Electronic Installer/Repairer Industrial Facilities Manager Industrial Machinery Mechanic Industrial Maintenance Electrician Industrial Maintenance Mechanic Industrial Maintenance Technician Instrument Calibration and Repairer Instrument Control Technician Job/Fixture Designer Laser Systems Technician Maintenance Repairer Major Appliance Repairer Meter Installer/Repairer Millwright Plumber, Pipefitter and Steamfitter Security System Installer/Repairer | <ul style="list-style-type: none"> Calibration Technician Inspector Lab Technician Process Control Technician Quality Control Technician Quality Engineer SPC Coordinator | <ul style="list-style-type: none"> Communications, Transportation and Utilities Manager Dispatcher Freight, Stock, and Material Mover Industrial Truck and Tractor Operator Logistical Engineer Logistician Material Associate Material Handler Material Mover Process Improvement Technician Quality Control Technician Traffic Manager Traffic, Shipping, and Receiving Clerk | <ul style="list-style-type: none"> Environmental Engineer Environmental Specialist Health and Safety Representative Safety Coordinator Safety Engineer Safety Team Leader Safety Technician |
| Pathways | Manufacturing Production Process Development | Maintenance, Installation & Repair | Quality Assurance | Logistics & Inventory Control | Health, Safety and Environmental Assurance |
| CCTC /Career Ready Practices | <p>The Common Career Technical Core (CCTC) 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 Career Ready Practices 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> | | | | |