



**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.**

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| <b>Sample Career Specialties/Occupations</b> | <ul style="list-style-type: none"> <li>◆ Assembler</li> <li>◆ Automated Manufacturing Technician</li> <li>◆ Calibration Technician</li> <li>◆ CNC Machinist</li> <li>◆ CNC Machine Operator</li> <li>◆ CNC Programmer</li> <li>◆ CNC Set-Up &amp; Operator</li> <li>◆ Electromechanical Equipment Assembler</li> <li>◆ Extruding and Drawing Machine Setter/Set-Up Operator</li> <li>◆ Foundry Worker</li> <li>◆ Grinding, Lapping, and Buffing Machine Operator</li> <li>◆ Instrument Maker</li> <li>◆ Machine Operator</li> <li>◆ Medical Appliance Maker</li> <li>◆ Micro and Nano Fabrication Technicians</li> <li>◆ Mold Maker</li> <li>◆ Millwright</li> <li>◆ Packager</li> <li>◆ Pattern and Model Maker</li> <li>◆ Precision Layout Worker</li> <li>◆ Sheet Metal Worker</li> <li>◆ Solderer and Brazier</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> |
| <b>Pathways</b>                              | <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>   | <b>Health, Safety and Environmental Assurance</b>  |
| <b>Cluster K &amp; S</b>                     | <b>Foundation Knowledge and Skills</b><br><i>Problem Solving, Critical Thinking, Employability, Citizenship, Ethics, Career Development, Integrity, Teamwork, Legal Responsibilities, Academic Foundations, Technology Application, Communications, Safety, Health &amp; Environment, Leadership, Technical Literacy, Cultural Competence, Lifelong Learning, Financial Well-Being, Organization &amp; Global Systems, Creativity, Innovation</i>  |  |   |  |  |  |

