



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.

| PATHWAYS | SKILLS STANDARDS | CURRICULUM | ASSESSMENTS |
|---|--|---|---|
| Production | <ul style="list-style-type: none"> • Electronics: <ul style="list-style-type: none"> — Electronics Assembler — General Electronics Technician • Machine Tool: <ul style="list-style-type: none"> — Drill Press Operator — Lathe Operator — CNC Machining Center Operator • Welding: <ul style="list-style-type: none"> — Shielded Metal Arc Welder — Gas Metal Arc Welder — Flux-Cored Arc Welder — Gas Tungsten Arc Welder — Cutting Process Operator | <ul style="list-style-type: none"> • Career Clusters: Manufacturing VHS and DVD • Introduction to Lasers TLA • Drafting: Engineering Sketching TLA • Manufacturing TLA • Basic Drafting • Fundamentals of Welding • Oxyacetylene Welding and Oxyfuel Cutting • SMAW: Shielded Metal Arc Welding and Carbon Arc Cutting – Air • GMAW: Gas Metal Arc Welding and FCAW: Flux-Cored Arc Welding • Shielded Metal Arc Pipe Welding • GTAW: Gas Tungsten Arc Welding and Plasma Arc Cutting • Welding Interactive Tests • Manufacturing Career Multimedia CD-ROM • Manufacturing Technology - Fundamentals • Manufacturing Technology - CNC Machining • TechConnect Introduction to Modern Manufacturing • TechConnect Introduction to Welding | <ul style="list-style-type: none"> • Electronics: <ul style="list-style-type: none"> — Electronics Assembler — General Electronics Technician • Machine Tool: <ul style="list-style-type: none"> — Drill Press Operator — Lathe Operator — CNC Machining Center Operator • Drafting: <ul style="list-style-type: none"> — Drafting Technician — Architectural Drafter — Mechanical Drafter • Welding: <ul style="list-style-type: none"> — Shielded Metal Arc Welder — Gas Metal Arc Welder — Flux-Cored Arc Welder — Gas Tungsten Arc Welder — Cutting Process Operator |
| Manufacturing Production Process Development | | <ul style="list-style-type: none"> • Career Clusters: Manufacturing VHS and DVD | |
| Maintenance, Installation, and Repair | <ul style="list-style-type: none"> • Electronics: <ul style="list-style-type: none"> — Biomedical Electronics Technician • Microcomputer Repair: <ul style="list-style-type: none"> — Microcomputer Repair Technician — Microcomputer Networking Technician • Industrial Maintenance Technology: <ul style="list-style-type: none"> — Industrial Maintenance Mechanic — Fluid Power Mechanic — Electrical/Electronic Mechanic — Mechanical Power Transmission Mechanic | <ul style="list-style-type: none"> • Career Clusters: Manufacturing VHS and DVD • Major Appliance Repair | <ul style="list-style-type: none"> • Microcomputer Repair: <ul style="list-style-type: none"> — Microcomputer Repair Technician — Microcomputer Networking Technician • Industrial Maintenance Technology: <ul style="list-style-type: none"> — Industrial Maintenance Mechanic — Fluid Power Mechanic — Electrical/Electronic Mechanic — Mechanical Power Transmission Mechanic • Major Appliance Installer • Biomedical Electronics Technician |



(Continued)

| PATHWAYS | SKILLS STANDARDS | CURRICULUM | ASSESSMENTS |
|--|---|--|---|
| Maintenance, Installation, and Repair (continued) | <ul style="list-style-type: none"> • Major Appliance: <ul style="list-style-type: none"> — Installer — Refrigeration Technician — Laundry & Kitchen Technician — Service Technician | | |
| Quality Assurance | <ul style="list-style-type: none"> • Lab Technician | <ul style="list-style-type: none"> • Career Clusters: Manufacturing VHS and DVD | <ul style="list-style-type: none"> • Lab Technician |
| Logistics and Inventory Control | <ul style="list-style-type: none"> • Heavy Equipment Maintenance • Heavy Equipment Operator | <ul style="list-style-type: none"> • Career Clusters: Manufacturing VHS and DVD • Heavy Equipment Operator Core • Heavy Equipment Operator: General Equipment & DVD • Heavy Equipment Mechanic | <ul style="list-style-type: none"> • Heavy Equipment Operator • Heavy Equipment Maintenance |
| Health, Safety, and Environmental Assurance | | <ul style="list-style-type: none"> • Career Clusters: Manufacturing VHS and DVD • Safety Design Briefs TLA • Safety on the job • Safety Training CD-ROMS • Workplace Safety and Health Advisor • Weather and Meteorology TLA | |