

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 Specialities / 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 Managers, Supervisors Medical Appliance Makers Milling Machine Setters, Set-Up Operators Millwrights Operators, Tenders,Cutters/ Brazers, Soldering, Machine Operations Painters Pattern & Model Makers Precision Optical Goods Workers Precision Optical Goods Workers Precision Optical Goods Workers Precision Optical Goods Workers Solderers and Brazers Solderers and Brazers Tool and Die Makers D Welders	<ul> <li>Design Engineers         <ul> <li>Electrical and Electronic             Technicians and Technologists</li> <li>Electronics Engineers             <ul></ul></li></ul></li></ul>	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 Electronic Installers/Repairers 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 Maintenance Repairers Maintenance Repairers Meter Installers/Repairers Meter Installers/Repairers Millwrights Plumbers, Pipe Fitters and Steam Fitters Security System Installers/ Repairers		Communications, Transportation and Utilities Managers Dispatchers Freight, Stock, and Material Movers Industrial Truck and Tractor Operators Logistical Engineers Logisticians Material Associates Material Handlers Material Hovers 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	
Pathways	Production	Manufacturing Production Process Development	Maintenance, Installation & Repair	Quality Assurance	Logistics & Inventory Control	Health, Safety and Environmental Assurance	
Cluster K&S	Academic Foundations     Communications     Employability and Career Development     Ethics and Legal Responsibilities     Academic Foundations     Information Technology     Leadership and Teamwork     Systems     Systems     Technical Skills     Jun     and				<ul> <li>Education Needed for Career</li> <li>High School – completed high school, high school with career and technology training, GED, on-the-job training, or apprenticeship</li> <li>Junior College – completed junior/community college, postsecondary technical, or career and technology training</li> <li>Baccalaureate Degree – completed four-year degree or more</li> </ul>		