



THE 160-hour Certified Production Technician program provides job seekers with highly targeted skills and knowledge that local manufacturers need today. Upon completion, the program promotes workplace accountability and exemplary attendance, in addition to four national certification exams. The program includes four modules.



MODULE 3

Manufacturing Processes and Production Mechanical Principles

<input type="checkbox"/>	Mechanical Principals	<ul style="list-style-type: none"> • Mechanisms Concepts • Force Measurement • Torque and Moments • Levers and Mechanical Advantage
<input type="checkbox"/>	Mechanical Linkages	<ul style="list-style-type: none"> • Friction • Inclined Planes • Linkages • Cams • Turnbuckles
<input type="checkbox"/>	Machining Processes	<ul style="list-style-type: none"> • Introduction to Manufacturing Processes • Selecting a Stock • Parts of a Band Saw • Band Saw Safety
<input type="checkbox"/>	Machine Tooling	<ul style="list-style-type: none"> • Basic Layout • Drill Press Safety • Drill Press Tooling • Drilling Holes
<input type="checkbox"/>	Machine Operations	<ul style="list-style-type: none"> • Reaming • Countersinking • Counter Boring • Tapping and Chamfering
<input type="checkbox"/>	Equipment Procedures	<ul style="list-style-type: none"> • Machine Setup and Operation • Machine Malfunctions • Machine Troubleshooting
<input type="checkbox"/>	Production Planning & Workflow	<ul style="list-style-type: none"> • Production Planning • Production Documents • Cost Estimating • Productivity
<input type="checkbox"/>	Production Control	<ul style="list-style-type: none"> • Scheduling • Inventory Management • Production Effectiveness • Packaging and Shipping