



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 4 *Maintenance Awareness*

<input type="checkbox"/>	Basic Electrical Circuits	<ul style="list-style-type: none"> • Fundamentals of Electricity • Electrical Circuit Components • Manual Input Devices • Output Devices
<input type="checkbox"/>	Electrical Measurement	<ul style="list-style-type: none"> • Voltage Measurement • Introduction to Series and Parallel Circuits • Current Measurement • Resistance Measurement
<input type="checkbox"/>	Electrical Power	<ul style="list-style-type: none"> • Ohm's Law • Power in Series Circuits • Circuit Protection Devices • AC Motor Connections • Motor Circuit Components
<input type="checkbox"/>	Pneumatic Power Systems	<ul style="list-style-type: none"> • Introduction to Pneumatics • Pneumatic Power • Circuit Connections • Basic Cylinder Circuits
<input type="checkbox"/>	Hydraulic Power Systems	<ul style="list-style-type: none"> • Introduction to Hydraulics • Basic Cylinder Circuits • Basic Motor Circuits • Filtration
<input type="checkbox"/>	Lubrication Concepts	<ul style="list-style-type: none"> • Total Productive Maintenance • Lubrication Concepts • Oils • Greases
<input type="checkbox"/>	Bearings and Couplings	<ul style="list-style-type: none"> • Mechanical Power Transmission Safety • Introduction to Bearings • Introduction to Couplings • Gear Drives
<input type="checkbox"/>	Belt Drives	<ul style="list-style-type: none"> • Belt Drive Concepts • V-Belt Operation • Belt Tensioning • Belt Tension Measurement
<input type="checkbox"/>	Chain Drives	<ul style="list-style-type: none"> • Chain Drive Concepts • Chain Drive Operation • Chain Tensioning • Chain Tension Measurement • Fixed Center Chain Installation
<input type="checkbox"/>	Machine Control Concepts	<ul style="list-style-type: none"> • Logic Elements (AND, OR) • Logic Elements (NOT, NOR, NAND) • Ladder Diagrams • Electro-Pneumatic Solenoid Valves
<input type="checkbox"/>	Machine Automation	<ul style="list-style-type: none"> • Relay Operation • Relay Applications • Limit Switch Operation • Time-Delay Relays
<input type="checkbox"/>	Welding	<ul style="list-style-type: none"> • Basic Welding • Welding Safety