



## Certified Production Technician Training & Certification

### CERTIFIED PRODUCTION TECHNICIAN

CPT is a nationally portable, industry-led program that prepares and certifies individuals for career pathways in advanced manufacturing. This online training program delivers the 21st Century, in-demand skills that today's employers need for over 6 million frontline production jobs.

CPT is delivered and customized locally through 1,500 MSSC Centers with a network of over 2,300 Authorized Instructors at colleges, secondary schools, and other convenient locations.



- Available nationwide
- Nationally accredited
- Federally recognized
- Always up to date
- Time and cost-effective for students
- Articulates between high schools and colleges
- Easily integrated into apprenticeships and internships
- Customizable at the community level
- Improved employee performance and retention
- Reduces recruitment and training cost



### The Manufacturing Skill Standards Council: MANUFACTURING THE FUTURE

The Manufacturing Skill Standards Council, a 501(c)3 non-profit, is an industry-led training, assessment, and certification system focused on the core skills and knowledge needed by the nation's front-line production and material handling workers. MSSC, the only ISO Standard 17024 certified program covering entry-level to basic front line supervisor skills, is nationally recognized, federally endorsed, and has been vetted by the U.S. Departments of Labor, Education, Justice, VA, and Jobs Corps.

# New Performance Based Assessment and Hands-on Training Device- CPT+ Skill Boss



With Skill Boss

CPT Plus certification provides employers further proof of an individual's skill set by requiring successful demonstration of hands-on skills in electronic, electrical, fluid power, & mechanical systems.

Skill Boss provides the tool you need to teach or evaluate an individual's skills as they install, adjust, & troubleshoot components on this fully functional mechatronics system, applicable to both discrete parts & process manufacturing.



## Certifications

MSSC's full Certified Production Technician (CPT) certification consists of 5 stackable credentials: Safety & Employability, Manufacturing Process & Production, Quality Practices & Measurement, Maintenance Awareness, and Green Production. The CPT Plus certification compliments the full CPT credential by providing employees with proof that an individual has the comprehensive technical knowledge and hands-on skills needed to be qualified production technicians.

### Safety & Employability

- Production Teams
- Training and Leadership
- Safety Organization
- Personal Protective Equipment
- Fire and Electrical Safety
- Work Area Safety
- Hazardous Material Safety
- Tool and Machine Safety
- Material Handling Safety

### Manufacturing Process & Production

- Mechanical Principles
- Mechanical Linkages
- Gear Drives
- Machining Processes
- Machine Tooling
- Machine Operations
- Equipment Procedures
- Production Planning and Workflow
- Production Control

### Quality Practices and Measurement

- Multi-view Drawings
- Assembly Drawings and Fasteners
- Geometric Dimensioning and Tolerancing
- Basic Measurement
- Precision Measurement Tools
- Dimensional Gauging
- Quality Systems
- Introduction to SPC
- Control Charts
- Continuous Improvement

### Maintenance Awareness

- Welding
- Basic Electrical Circuits
- Electrical Measurements & Power
- Pneumatic Power Systems
- Basic Pneumatic Circuits
- Principles of Pressure and Flow
- Lubrication Concepts
- Bearings and Couplings
- Belt & Chain Drives
- Machine Control Concepts, Automation, & Operation Modes
- Electrical Motor Control

### Green Production

Certification in the use of equipment, technologies, and processes that will improve the environmental performance of manufacturing companies.

Mfg. Career Pathway

NCRC by ACT

MSSC  
CPT

MSSC  
CPT+

NIMS  
AWS  
SME



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