

Certified Production Technician 4.0+® (CPT 4.0+) Training & Certification System

CPT 4.0+ is a nationally portable, industry-led training and certification program that prepares entry-level to front-line supervisors for careers in advanced manufacturing. This virtual and hands-on program delivers foundational, core competencies and in-demand skills today's employers need for over 6 million frontline production jobs.

This project-based platform can award up to eight certificates and two full certifications, and ensures that learners are work-ready with both theoretical and hands-on skills!

MSSC's CPT 4.0 & CPT+ certifications cover 4 modules in the following skill areas:

Safety

- Introduction to Advanced Manufacturing
- Industry 4.0 and IIoT
- Safety Responsibilities
- Practicing Safety in the Workplace
- Types of PPE
- Hazardous Materials Standard
- Hazardous Material Handling and Storage
- Machine Safety
- Equipment Safety
- Material Handling and Robot Safety

Quality Practices & Measurement

- Introduction to Quality
- Dimensional Measurement
- Measurement Conversion
- Introduction to Print Quality
- Multiview Drawings
- Blueprint Dimensions and Notes
- Manufacturing Drawings and Scales
- Welding Symbols
- Tolerancing
- Caliper Measurement

Manufacturing Process & Production

- Principles of Manufacturing Automation
- Industry 4.0 Technologies
- Advanced Manufacturing Materials
- Advanced Manufacturing Processes
- Mechanical Power
- Basic Mechanical Elements
- Power Efficiency
- Hand Tools
- Band Saw Operation
- Introduction to Drill Press

Maintenance Awareness

- Total Productive Maintenance (TPM)
- Mechanical Power Transmission
- Gear Drives
- Belt Drives
- Chain Drives
- Oil Lubrication
- Grease Lubrication
- Introduction to Fluid Power
- Pneumatic Power
- Basic Cylinder Circuits

Additional Module: Green Production

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

About the Manufacturing Skill Standards Council

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.

MSSC™

www.msscusa.org

Why Choose the CPT 4.0+ System?

With an estimated 1.9 million manufacturing jobs projected to go unfilled by 2033, the CPT 4.0+ program offers a fast, scalable solution to build a highly skilled frontline workforce. This turnkey system is ideal for:

- Manufacturing Employers Across All Sectors
- Community & Technical Colleges
- Secondary School Districts
- Adult Workforce & Education Programs
- Justice-Involved Populations

CPT 4.0+ delivers job-ready skills aligned with today's advanced manufacturing needs—helping close the talent gap and power America's industrial future.

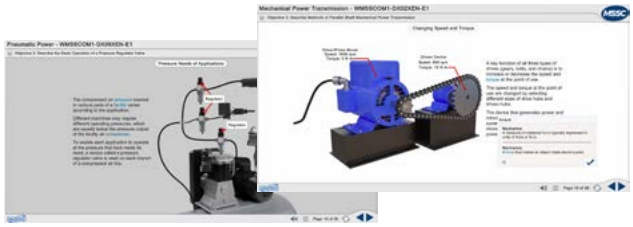


Built for Industry 4.0: Training in the Technologies Shaping Tomorrow

- Artificial Intelligence (AI)
- Autonomous Robots
- Additive Manufacturing (3D Printing)
- Data Analytics
- The Industrial Internet of Things (IIOT)
- Augmented Reality
- Nanomanufacturing
- Advanced Materials

All-encompassing CPT 4.0+ Training System

- Authorized Instructor Training Packages
- Multimedia-enriched CPT 4.0 eLearning Curriculum
- Hands-on CPT+ training & evaluation with Skill Boss Manufacturing by Amatrol



The CPT 4.0+ platform integrates online learning with hands-on skills training using Skill Boss. This blended model equips learners with both the theoretical knowledge and practical experience needed in today's high-tech manufacturing environments. Participants engage with MSSC's interactive eLearning while developing real-world competencies on the Skill Boss device-earning up to eight certificates and two full certifications. CPT 4.0+ offers MSSC's most immersive, job-relevant certification experience yet, designed to meet the evolving demands of Industry 4.0.

Amatrol's Skill Boss is the hands-on device 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.



AMATROL

MSSC certificants who earn the Full CPT certification can earn $55,000+/year in 3–5 years

MSSC and the Manufacturing Institute of the National Association of Manufacturers (NAM) collaborated with the National Student Clearinghouse (NSC) in a data sharing initiative and identified significant wage growth for CPT certificants.

MSSC™

www.msscusa.org

Learn more: msscusa.org/4.0plus