



Certified Production Technician (CPT)

The CPT Certification addresses the core technical competencies of higher skilled production workers in all sectors of manufacturing. MSSC awards certificates to individuals who pass any of its Production Modules: Safety, Quality Practices & Measurement, Manufacturing Processes & Production, and Maintenance Awareness; and a full Certified Production Technician (CPT) Certification to those who pass all four original modules.



The CPT and CLT are both accredited under ANSI-ISO 17024 (Personnel Certification) making it the only national certification body globally with this designation for manufacturing and logistics.



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Safety Module

- Customer needs
- Communication and leadership
- Team building and decision making
- Safety organization
- Personal protective equipment
- Fire and electrical safety
- Hazardous material safety
- Aligned with OSHA 10

Quality Module

- Blueprint reading
- Basic measurement
- Precision measurement
- Dimensional gauging
- SPC and control charts
- Continuous improvement
- Inspections
- Audits
- Prevention and correction
- Documentation

Manufacturing Processes & Production Module

- Mechanical principles
- Materials and material testing
- Production processes
- Machining processes and tooling
- Procedures and process documentation
- Production planning and workflow
- Packaging and distribution

Maintenance Awareness

- Basic electrical circuits
- Pneumatic and hydraulic power systems
- Lubrication
- Bearing and couplings
- Belt and chain drives
- Machine control concepts
- Machine automation
- High vacuum systems
- Laser system

Each CPT Course is approximately 45-55 hours and has been rated by the National College Credit Recommendation Service (NCCRS) at three credits each.