MSSC Certified Production Technician (CPT) Training

Module 1 - SAFETY

- Working in Manufacturing
- The Impact of Manufacturing
- Responding to Customer Expectations
- Best Practice Companies
- Communication Skills
- Production Group Communication
- Communication Strategies
- Production Teams
- Training and Leadership
- Meeting Customer Needs
- Safety Organization
- Personal Protective Equipment
- Fire and Electrical Safety
- Work Area Safety
- Hazardous Material Safety
- Tool and Machine Safety
- Material Handling Safety

Module 2 - QUALITY PRACTICES and MEASUREMENT

- Blueprint Reading 1 (Multi-view Drawings)
- Blueprint Reading 2 (Assembly Drawings and Fasteners)
- Blueprint Reading 3 (Geometric Dimensioning & Tolerancing)
- Basic Measurement
- Precision Measurement Tools
- Dimensional Gauging
- Quality Systems
- Quality Improvement
- Introduction to Statistical Process Control (SPC)
- Control Charts
- Continuous Improvement - 1
- Continuous Improvement – 2
- Quality Inspections
- Quality Audits
- Preventive and Corrective Actions
- Verification and Documentation
Module 3 - MANUFACTURING PROCESSES and PRODUCTION

- Customer Contact
- Creating Products
- Types of Production
- Mechanical Principles
- Mechanical Linkages
- Production Materials
- Testing, Selecting, and Developing Materials
- Production Processes
- Machining Processes
- Machine Tooling
- Machine Operations
- Tools and Equipment Use
- Equipment Procedures
- Production Planning and Workflow
- Production Components
- Production Control
- Documenting the Process
- Product Packaging
- Product Distribution

Module 4 - MAINTENANCE AWARENESS

- Welding
- Basic Electrical Circuits
- Electrical Measurement
- Electrical Power
- Pneumatic Power Systems
- Hydraulic Power Systems
- Lubrication Concepts
- Bearings and Couplings
- Belt Drives
- Chain Drives
- Machine Control Concepts
- Machine Automation