Computer-Based Online Theory and Curriculum Training

Hands-On Instruction and Assessment

Lehigh Carbon Community College
MSSC
CPT+
200 Hours

Lehigh Carbon COMMUNITY COLLEGE
CENTER FOR LEADERSHIP & WORKFORCE DEVELOPMENT

Safety
- MSSC Overview and Learning Techniques
- Working in Manufacturing
- Impact of Manufacturing
- Responding to Customer Expectations
- Customer Needs
- Best Practice Companies
- Communication
- Production Group Communication
- Communication Strategies
- 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

Quality
- Blueprint Reading 1 (Multiview Drawings)
- Blueprint Reading 2 (Assembly Drawings & Fasteners)
- Blueprint Reading 3 (Geometric Dimensioning & Tolerancing
- Basic Measurement
- Precision Measurement Tools
- Dimensional Gauging
- Quality Systems
- Quality Improvement
- Introduction to SPC (Statistical Process Control)
- Control Charts
- Continuous Improvement 1
- Continuous Improvement 2
- Inspections
- Audits
- Prevention and Correction
- Documentation

Manufacturing
- Contacting the Customer
- Designing Products
- Types of Production & Mfg Introduction
- Mechanical Principals
- Mechanical Linkages
- Materials
- Material Testing, Selection & Development
- Production Processes
- Machining Processes
- Machine Tooling
- Machine Operations
- Tool Usage
- Equipment Procedures
- Production Planning
- Components
- Production Control
- Process Documentation
- Packaging
- Distribution

Maintenance
- 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
- High Vacuum Systems
- Laser Systems