

Missouri Manufacturing Technician I & II Statewide Manufacturing Certification



The Missouri Manufacturing Technician certification training offers two courses to get you started in the manufacturing industry; Missouri Manufacturing Technician I & Missouri Manufacturing Technician II. You will get the knowledge and hands-on skills needed to obtain employment in an entry level manufacturing position, such as materials handler, team assembler, or basic machine operator.

Both courses follow the Manufacturing Skills Standards Council (MSSC) curriculum guidelines and lead to industry-recognized credentials valued by manufacturing employers across the region.

By completing both Missouri Manufacturing Technician I & II courses, you will earn an OSHA 10-credential, be prepared to earn the MSSC Certified Production Technician (CPT) credential via four subject-area exams, and earn the State Fair Community College | The LearningForce certificate.

Course prerequisite: NCRC Bronze certificate; assessment fee included in course fees.

Dates: Call for dates

Time: Varies

Cost:

Location: Combination of classroom and online instruction.

MSSC CPT certified instructor teaches course.

Participant is eligible to test for the MSSC CPT Module exams, included in the cost of the training.

Successful completion of all four MSSC CPT Module exams yield MSSC CPT Certification.

CONTACT US

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Missouri Manufacturing Technician I

CORE OBJECTIVES: 100 hours

Professional Development: 10 hours

- Team Building
- Employment Strategies
- Computer Literacy:
 - Working in Excel for documentation
 - Composing, send, and responding to emails in Microsoft Outlook

Safety (course objectives): 45 hours

- OSHA 10 Hour General Industry training
- Work in a safe and productive manufacturing workplace
- Perform safety and environmental inspections
- Perform emergency drills and participate in emergency teams
- Identify unsafe conditions and take corrective action
- Provide safety orientation for all employees
- Train personnel to use equipment safely
- Suggest processes and procedures that support safety of work environment
- Fulfill safety and health requirements for maintenance, installation, and repair
- Monitor safe equipment and operator performance

Quality Practices & Measurements (course objectives): 45 hours

- Participate in periodic internal quality audit activities
- Check calibration of gauges and other data collection equipment
- Suggest continuous improvements
- Inspect materials and product/process at all stages to ensure they meet specifications
- Document the results of quality tests
- Communicate quality problems
- Take corrective actions to restore or maintain quality
- Record process outcomes and trends
- Identify fundamentals of blueprint reading
- Use common measurement systems and precision measurement tools
- Hand tool (nails, screwdrivers, calipers, drills, etc)
- Basic math, including measurements and unit conversion
- Introduction to Blueprint reading:
 - Read drawings to determine part hole sizes and locations, scales, title blocks, part section features, and fastener sizes.
 - Read multi-view drawings to visualize part shapes, identify features, and identify dimensions.
 - Interpret part dimension tolerances, geometric dimensioning and tolerancing (GD&T) symbols and frames, and datums.

Missouri Manufacturing Technician II

CORE OBJECTIVES: 90 hours

Manufacturing Processes & Production: 45 hours

- Identify customer needs
- Determine resources available for the production process
- Set up equipment for the production process
- Set team production goals
- Make job assignments
- Coordinate work flow with team members and other work groups
- Communicate production and material requirements and product specifications
- Perform and monitor the process to make the product
- Document and monitor the process to make the product
- Document product and process compliance with customer requirements
- Prepare final product for shipping and distribution

Maintenance Awareness (course objectives): 45 hours

- Perform preventative maintenance and routine repair
- Monitor indicators to ensure correct operations
- Perform all housekeeping to maintain production schedule
- Recognize potential maintenance issues with basic production systems, including knowledge of when to inform maintenance personnel about problems with:
 - Electrical systems
 - Pneumatic systems
 - Hydraulic systems
 - Machine automation systems
 - Lubrication processes
 - Bearings and couplings
 - Belts and Chain drives