

MSSC Assessment

MSSC certification is designed to validate that any individual with the certification has both the technical as well as employability and academic skills needed to work in modern manufacturing. Rigorous assessment is part of the fabric of MSSC to ensure the integrity of the certification. Certification covers MSSC's four core competency areas: Manufacturing Processes and Production, Maintenance Awareness, Quality and Continuous Improvement, and Safety. Each area is addressed with a separate assessment.



MSSC training and assessment address the need for employability and academic skills as well as technical skills. The assessments require mastery of core knowledge and skills that are essential to high performance manufacturing:

Employability Skills

- Problem Solving
- Decision Making
- Teamwork
- Organization and Planning
- Social Interaction
- Adaptability
- Leadership
- Consensus Building
- Career Awareness and Self-Development

Academic Skills

- Math
- Science
- Reading
- Writing
- Listening
- Speaking
- Computer
- Gathering and Analyzing Information

Once training is completed, participants may take the assessment for that topic. Following each assessment, a Certificate of Recognition is provided. All four key assessments must be passed in order to achieve the Production Technician certification. Should a participant not pass one of the assessments, they may re-take the assessment.



MSSC Assessments

Manufacturing Processes and Production

- Awareness of customer needs
- Resources for production processes
- Equipment modes & set up
- Equipment monitoring
- Inspection to meet specs
- Product / process documentation
- Product preparation for shipping
- Machine automation
- Electrical principles
- Mechanical principles
- Pneumatic pressure and flow
- Bearings & couplings
- Belt and chain drives

Maintenance Awareness

- Preventive maintenance
- Routine repair
- Indicator monitoring
- Equipment maintenance training
- Maintenance of production schedule
- Analysis of breakdowns
- Alignment checks
- Lubrications and coolants
- Blueprint reading
- Circuit analysis
- Tool maintenance
- Preventive actions
- Corrective actions
- Verification and documentations

Quality and Continuous Improvement

- Internal quality audits
- Calibration of data collection equipment
- Continuous improvement
- Quality test documentation
- Quality maintenance adjustments
- Communication of quality problems
- Corrective actions
- Recording of process outcomes
- Quality training
- Closed-loop correction action
- Introduction to SPC

Safety

- Creation of a safe workplace
- Environmental safety inspections
- Emergency drills
- Correction of unsafe conditions
- Safety orientation training
- Safety equipment use
- Work environment safety
- Safety-related maintenance
- Equipment monitoring for safety
- Operator safety
- Communication of safety problems

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