

# CERTIFIED MANUFACTURING ASSOCIATE (CMfgA)



**UF** | **CIS** Center for Industrial Services  
INSTITUTE for PUBLIC SERVICE

Tennessee Manufacturing Extension Partnership

## CERTIFICATION

### DEVELOP THE SKILLS NECESSARY FOR A SUCCESSFUL CAREER IN MANUFACTURING

The Certified Manufacturing Associate training program helps prepare dislocated workers, underemployed individuals, veterans, and more start a new career in manufacturing. The 25-class online training program from Tooling U-SME can be bundled with the nationally recognized Certified Manufacturing Associate credential. This training program prepares individuals for high-demand, entry-level careers including assemblers, manufacturing associates, and production operators. It can also be used by manufacturers as an effective onboarding program for new employees.

### SHORT-TERM, COMPREHENSIVE TRAINING

Online classes from Tooling U-SME provide the best manufacturing content developed by industry experts. The information is presented in an engaging and interactive format for maximum effectiveness, and pre-and post-assessments measure a student's increased knowledge.

Classes are self-paced, typically taking 60 minutes to complete. The 25-class training program will help employees prepare for the certification exam. They are conveniently accessible anytime, anywhere on desktops and laptops, and on tablets and phones with the Tooling U-SME app.

### BUILD A COMPREHENSIVE FOUNDATION OF KNOWLEDGE

This program introduces basic concepts in the areas needed for a successful career as a Certified Manufacturing Associate:

- Additive Manufacturing
- Blueprint Reading
- CNC
- Inspection
- Lean
- Math Fundamentals
- Measurement and Inspection
- Quality
- Robotics
- Safety
- Troubleshooting


### EARN A NATIONALLY RECOGNIZED CERTIFICATION

The SME Certified Manufacturing Associate (CMfgA) credential demonstrates that an individual has foundational manufacturing knowledge and may be an ideal candidate for entry-level employment. It is the first step toward a lifelong career in an industry where there is opportunity for advancement and well-paying jobs.

[sme.org/cmfga](http://sme.org/cmfga)

Choose a starting point based on employee's experience or company goals for a quick-start training solution.

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## CERTIFIED MANUFACTURING ASSOCIATE TRAINING PROGRAM

### Suggested order to complete the 25-online courses:

Introduction to CNC Machines **201**  
Introduction to Robotics **201**  
Introduction to Assembly **101**  
Introduction to Additive Manufacturing **111**  
Tools for Threaded Fasteners **235**

5S Overview **151**  
Lean Manufacturing Overview **101**  
Quality Overview **111**  
Troubleshooting **181**  
Blueprint Reading **131**

Basic Measurement **101**  
Units of Measurement **112**  
Math Fundamentals **101**  
Math: Fractions and Decimals **111**  
Basics of Tolerance **121**

Intro to OSHA **101**  
Ergonomics **102**  
Personal Protective Equipment **111**  
Hand and Power Tool Safety **201**  
Fire Safety & Prevention **181**  
  
Bloodborne Pathogens **161**  
Safety for Assembly **211**  
Robot Safety **211**  
Lockout/Tagout Procedures **141**  
SDS and Hazard Communication **151**