ROBOTICS IN MANUFACTURING FUNDAMENTALS (RMF)

Comprehensive Training Program

GLOBAL ROBOTICS MARKET EXPECTED TO REACH $74 BILLION BY 2026*

To help meet the high demand for advanced manufacturing and robotics talent in our country, Tooling U-SME is introducing The Robotics in Manufacturing Fundamentals certification training program. It is designed to help prepare high school and college students, dislocated workers, under-employed individuals, veterans, at-risk youth and others to start a new career in the field of robotics.

The 22-class online training program from Tooling U-SME can be bundled with the industry recognized Robotics in Manufacturing Fundamentals credential. The training program prepares those currently looking to upskill or reskill into manufacturing careers before pursuing equipment-specific or career pathway-specific training in robotics. It can be used by manufacturers as an effective onboarding program for new employees.

SHORT-TERM, COMPREHENSIVE TRAINING

The online classes from Tooling U-SME cover topics agreed upon by manufacturing experts as being relevant for foundational robotics knowledge across a wide-range of industries. 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 22-class training program can be completed in just a few weeks (typically less than one month). 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 focuses on the fundamentals of robotics required as a starting point for any career pathway a candidate may pursue in the field of robotics:

Introduction to manufacturing
Applied mathematics
Robotic applications
Robot systems and components
Robot programming concepts

EARN A NATIONALLY RECOGNIZED CERTIFICATION

The SME Robotics in Manufacturing Fundamentals (RMF) credential, developed with the Robotics Education & Competition (REC) Foundation and FIRST®, is focused on the fundamentals of manufacturing robotics. The credential can help individuals begin a lifelong career in an industry where there is opportunity for advancement and good-paying jobs.

sme.org/RMF


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ROBOTICS IN MANUFACTURING FUNDAMENTALS

Complete Class List

Bloodborne Pathogens 161
Cell Design and Pull Systems 161
Concepts of Robot Programming 341
End Effectors 225
Ergonomics 102
Fire Safety and Prevention 181
Forces of Machines 121
Introduction to Automation 291
Introduction to Collaborative Robots 275
Introduction to Robotics 201
Limit Switches and Proximity Sensors 231
Logic and Line Diagrams 312
Manufacturing 101
Production System Design and Development 136
Robot Applications 215
Robot Components 221
Robot Control Systems 317
Robot Power and Drive Systems 265
Robot Safety 211
Robot Sensors 315
Units of Measurement 112
Vision Systems 320