SMART MANUFACTURING



PROFESSIONAL DEVELOPMENT

SAFER, FASTER, MORE EFFICIENT MANUFACTURING WITH SMART MANUFACTURING

Manufacturing is quickly evolving and now requires new knowledge and skills. Technologies such as digital security, robotics, IIOT solutions, and 5G networks and infrastructure are changing the industry and the way manufacturers work, creating demand for workers who are skilled in these advanced technologies. Forward-thinking manufacturers are investing in training programs to build the Industry 4.0 capabilities needed to remain competitive

FLEXIBLE AND CONVENIENT

Online classes are self-paced, typically taking 60 minutes to complete. They are easily and conveniently accessible on desktops and laptops, and on tablets and phones with the Tooling U-SME app.

Gu

Online Training offers:

- Content developed by industry experts
- Accessible anytime, anywhere
- Self-paced
- Predefined curriculum for each job role
- Engaging and interactive content
- Pre- and post-training knowledge assessments
- Access to Tooling U-SME's Learning Management System (LMS)
- Guidance from our Client Success team, including advice, insights, and ideas built on best practices and years of experience

EFFECTIVE COMBINATION OF CLASSES

This Smart Manufacturing training program offers a comprehensive overview of the competencies needed to take advantage of the smart manufacturing technologies that are driving the industry forward. This series includes the following classes:

ADDITIVE MANUFACTURING

Introduction to Additive Manufacturing Additive Manufacturing Safety The Basic Additive Manufacturing Process

Additive Manufacturing Methods

and Materials Introduction to Hybrid Manufacturing

- Rapid Prototyping
- Additive Manufacturing: Prototype to Production
- Design for Additive Manufacturing
- Additive Manufacturing Materials Science

Integrating Additive Manufacturing with Traditional Manufacturing

Additive Manufacturing as a Secondary Process Nondestructive Testing for Additive

- Manufacturing The Additive Manufacturing Supply Chain
- Managing the Additive Manufacturing Supply Chain

Hybrid Manufacturing with Directed Energy Deposition Design for Fused Deposition Modeling

Design for Directed Energy Deposition Design for Binder Jetting

INDUSTRIAL INTERNET OF THINGS

Cybersecurity for Manufacturing Basics Cybersecurity for Manufacturing: Malware Overview Introduction to the Industrial

Introduction to the industrial Internet of Things Data Collection Fundamentals Automatic Identification Technology Cybersecurity for Manufacturing: Hacking Overview

Cybersecurity for Manufacturing: Wireless Networks

Introduction to Digital Networks Data Collection: Inventory and

Maintenance Introduction to Digital Twin Introduction to Digital Thread Introduction to Machine Learning and Artificial Intelligence

Machine Learning and Artificial Intelligence Applications

ROBOTICS

Robot Components

Applications for Robots Automated Systems and Control Robot Axes **Robot Maintenance** Introduction to Robotics Robot Safety Robotic Drives, Hardware, and Components End Effectors **Robot Installations Robotic Control Systems** Industrial Network Integration Introduction to Collaborative Robots Robot Sensors Vision Systems Robot Troubleshooting Concepts of Robot Programming

- New content is always being added. Check with your representative for the most current list of classes. -







To begin your training program or for more information, contact Lindsey Brickle, Workforce Program Manager at **401-641-8032** or **Ibrickle@polarismep.org**