MANUFACTURING AWARENESS



PROFESSIONAL DEVELOPMENT

LEARNING PLANS FOR MANUFACTURING JOB ROLES

Online Training from Chattahoochee Technical College and Tooling U-SME offers a quick-start, progressive road map that allows manufacturers to build career paths for employees. This online training is intended to enhance your existing on the job training, to create a job progression plan and requires minimal preparation. It is efficient, effective training that has been developed with input from manufacturing experts.

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.

Manufacturing Awareness introduces basic concepts in the following functional areas:



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





Mix and match all offerings for personal job progression paths.

MANUFACTURING AWARENESS

ASSEMBLY

Bsic Measurement
Calibration Fundamentals
Thread Standards and
Inspection
Intro to OSHA
Personal Protective Equipment
Noise Reduction and Hearing

Conservation

Lockout/Tagout Procedures SDS and Hazard Communication Walking and Working Surfaces Fire Safety and Prevention Flammable/Combustible Liquids Ergonomics Hand and Power Tool Safety Safety for Lifting Devices Powered Industrial Truck Safety Introduction to Physical

Properties

Introduction to Mechanical Properties Introduction to Metals Ferrous Metals Nonferrous Metals Lean Manufacturing Overview ISO 9001:2015 Review 5S Overview Intro to Machine Rigging Rigging Equpment Lifting and Moving Equipment Rigging Inspection and Safety Types of Adhesives Intro to Assembly Safety for Assembly
Overview of Threaded
Fasteners
Tools for Threaded Fasteners
Overview of Non-Threaded
Fasteners
Threaded Fastner Selection

COMPOSITES

Basic Measurement
Calibration Fundamentals
Intro to OSHA
Personal Protective Equipment
Noise Reduction and Hearing
Conservation
Lockout/Tagout Procedures

SDS and Hazard Communication Walking and Working Surfaces Fire Safety and Prevention Flammable/Combustible Liquids Safety for Lifting Devices

Powered Industrial Truck Safety Introduction to Physical Properties Introduction to Mechanical Properties Introduction to Metals Ferrous Metals Nonferrous Metals Lean Manufacturing Overview ISO 9001:2015 Review 5S Overview Safety for Composite Processing Overview of Composite Processes Advanced Thermoset Resins for Composites Advanced Materials for Composites

Intro to Lay-up and Spray-up Molding Intro to Compression Molding

MACHINING

Introduction to Workholding Supporting and Locating Principles Locating Devices Clamping Basics Chucks, Collets, and Vises Basic Measurement Calibration Fundamentlas Intro to OSHA
Personal Protective Equipment
Noise Reduction and Hearing
Conservation
Lockout/Tagout Procedures
SDS and Hazard
Communication
Walking and Working Surfaces

Fire Safety and Prevention Flammable Combustible Liquids Safety for Lifting Devices Powered Industrial Truck Safety Introduction to Physical Introduction to Mechanical Properties Introduction to Metals Ferrous Metals Nonferrous Metals Lean Manufacturing Overview ISO 9001:2015 Review 5S Overview Cutting Processes
Overview of Machine Tools
Basic Cutting Theory
Manual Mill Basics
Engine Lathe Basics
Introduction to CNC Machines
Basics of the CNC Lathe
Basics of the CNC Mill

Coordinates for the CNC Lathe Coordinates for the CNC Mill Grinding Processes Basics of the Surface Grinder Basics of the Cylindrical Grinder Basics of the Centerless Grinder

MAINTENANCE

Basic Measurement
Calibration Fundamentals
Intro to OSHA
Personal Protective Equipment
Noise Reduction and Hearing
Conservation
Lockout/Tagout Procedures
SDS and Hazard
Communication

Walking and Working Surfaces Fire Safety and Prevention Flammable/Combustible Liquids Safety for Lifting Devices Powered Industrial Truck Safety Introduction to Physical Properties Introduction to Mechanical Properties introduction to Metals Ferrous Metals Nonferrous Metals Lean Manufacturing Overview ISO 9001:2015 Review 5S Overview Electrical Units
Safety for Electrical Work
Introduction to Circuits
Introduction to Magnetism
DC Circuit Components
Basics of Siemens PLCs
Introduction to Mechanical
Systems

Safety for Mechanical Work Forces of Mechines Mechanical Power Variables Introduction to PLCs The Forces of Fluid Power Safety for Hydraulics and Pneumatics Introduction to Hydraulic Components Introduction to Pneumatic Components Lubricant Fundamentals

STAMPING FORMING FABRICATING

Basic Measurement Calibration Fundamentals Intro to OSHA Personal Protective Equipment Noise Reduction and Hearing Lockout/Tagout Procedures SDS and Hazard Communication Walking and Working Surfaces Fire Safety and Prevention Flammable/Combustible

Safety for Lifting Devices
Powered Industrial Truck
Safety
Introduction to Physical
Properties

Introduction to Mechanical Properties Introduction to Metals Ferrous Metals Nonferrous Metals Lean Manufacturing Overview ISO 9001:2015 Review 5S Overview Overview of Machine Tools Press Basics Punch and Die Operations Die Components Press Brake Components Manufacturing Process Applications: Part I

WELDING

Basic Measurement
Calibration Fundamentals
Intro to OSHA
Personal Protective Equipment
Noise Reduction and Hearing
Conservation
Lockout/Tagout Procedures
SDS and Hazard

Communication
Walking and Working Surfaces
Fire Safety and Prevention
Flammable/Combustible
Liquids
Safety for Lifting Devices
Powered Industrial Truck

Introduction to Physical Properties Introduction to Mechanical Properties Introduction to Metals Ferrous Metals Nonferrous Metals Lean Manufacturing Overview ISO 9001:2015 Review 5S Overview Welding Safety Essentials PPE for Welding Welding Fumes and Gases Safety Electrical Safety for Welding Introduction to Welding

Introduction to Welding Processes Math Fundamentals for Welding Geometry Fundamentals for Welding Welding Ferrous Metals Welding Nonferrous Metals Overview of Weld Types Electrical Power for Arc Welding





To begin your training program or for more information, call Chattahoochee Technical College at 770-529-2345 or email CorporateTraining@ChattahoocheeTech.edu