

# FLEXIBLE AND CONVENIENT

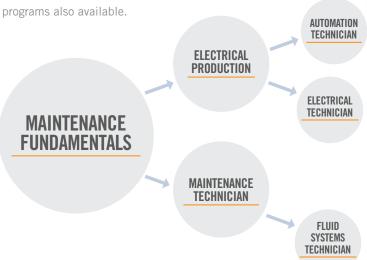
Online classes are self-paced, typically taking 60 minutes to complete. They are easily and conveniently accessible on desktops and laptops, and on tablets and phones with the Tooling U-SME app.

a job progression plan and requires minimal preparation. It is efficient, effective

training that has been developed with input from manufacturing experts.

# CAREER PATHWAYS FOR MAINTENANCE JOB ROLES

Combine job roles for learning pathways, or offer single job roles for targeted learning. Large comprehensive programs also available.



## 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



To begin your training program or for more information, call MANTEC at 717-843-5054 or email info@mantec.org

### Mix and match all offerings for personal job progression paths.

## **MAINTENANCE**

#### MAINTENANCE FUNDAMENTALS

Math Fundamentals Math: Fractions and Decimals Units of Measurement Basics of Tolerance Blueprint Reading Basic Measurement Calibration Fundamentals Hole Standards and Inspection Thread Standards and Inspection Intro to OSHA Personal Protective Equipment Noise Reduction and Hearing Conservation Prespiratory Safety Lockout/Tagout Procedures

SDS and Hazard Communication Bloodborne Pathogens Walking and Working Surfaces Fire Safety and Prevention Flammable/Combustible Liquids Hand and Power Tool Safety

Safety for Lifting Devices Powered Industrial Truck Safety Confined Spaces Introduction to Physical Properties Introduction to Mechanical Properties

Introduction to Metals Ferrous Metals Lean Maufacturing Overview ISO 9001:2015 Review Approaches to Maintenance Total Productive Maintenance 5S Overview Electrical Units

Safety for Electrical Work Introduction to Mechanical Systems Safety for Mechanical Work Forces of Machines

#### **ELECTRICAL PRODUCTION**

Geometry: Lines and Angles Geometry: Triangles

Geometry: Circles and Polygons Trigonometry: The Pythagorean

Tangent Essentials of Heat Treatment of Steel Troubleshooting Introduction to CNC Machines Control Panel Functions for the CNC Lathe Control Panel Functions for the CNC Mill Shift Registers Introduction to Circuits Introduction to Magnetism DC Circuit Components

NFC Overview AC Fundamentals Electrical Instruments Electrical Print Reading Conductor Selection Series Circuit Calculations Parallel Circuit Calculations

Limit Switches and Proximity Sensors Lubricant Fundamentals Overview of Soldering Relays, Contractors, and Motor Starters Control Devices

Distribution Systems Introduction to Electric Motors Logic and Line Diagrams Essentials of Leadership Essentials of Communication

#### MAINTENANCE PRODUCTION

Geometry: Lines and Angles Geometry: Triangles Geometry: Circles and Polygons Trigonometry: The Pythagorean Theorem

Trigonometry: Sine, Cosine,

Essentials of Heat Treatment

Nonferrous Metals Troubleshooting Series Circuit Calculations Parallel Circuit Calculations Battery Selection Bearing Applications Spring Applications Belt Drive Applications Gear Applications

Reversing Motor Circuits Specs for Servomotors Reduced Voltage Starting The Forces of Fluid Power Safety for Hydraulics and Pneumatics Introduction to Hyudraulic Components Introduction to Pneumatic

Components

Introduction to Fluid Conductors Fittings for Fluid Systems Preventative Maintenance for Fluid Systems Lubricant Fundamentals Mechanical Power Variables Clutch and Brake Applications Intro to Machine Rigging Rigging Equipment

Rigging Inspection and Safety Rigging Mechanics Intro to Fastener Threads Overview of Threaded Fasteners Tools for Threaded Fasteners Overview of Non-Threaded Fasteners Understanding Torque

Threaded Fastener Selection

Introduction to Electric Motors Symbols and Diagrams for Motors Logic and Line Diagrams DC Motor Applications Solenoids AC Motor Applications Essentials of Leadership Essentials of Communication

Distribution Systems

#### **AUTOMATION TECHNICIAN**

Bearing Applications Spring Applications Belt Drive Applications Gear Applications Introduction to PLCs Hardware for PLCs Basics of Ladder Logic Numbering Systems and

PLC Inputs and Outputs

Basic Programming PLC Timers and Counters Networking for PLCs Hand-Held Programmers for PLCs Overview of PLC Registers PLC Program Control Instructions Sequencer Instructions for PLC Installation Practices PID for PLCs Data Manipulation Robot Components End Effectors Robot Axes Robot Sensors Robot Maintenance Robot Installations Vision Systems

Industrial Network Integration The Forces of Fluid Power Safety for Hydraulics and Pneumatics Introduction to Hydraulic Components Introduction to Pneumatic Components Introduction to Fluid Conductors

Fittings for Fluid Systems Mechanical Power Variables Clutch and Brake Applications Intro to Machine Rigging Rigging Equipment Rigging Inspection and Safety Rigging Mechanics Robot Safety Robot Troubleshooting Concepts of Robot

Programming Intro to Fastener Threads Overview of Threaded Fasteners Tools for Threaded Fasteners Overview of Non-Threaded Understanding Torque Threaded Fastener Selection

#### ELECTRICAL TECHNICIAN

Nonferrous Metals Battery Selection Bearing Applications Spring Applications Belt Drive Applications Gear Applications Reversing Motor Circuits Specs for Servomotors Reduced Voltage Starting The Forces of Fluid Power Safety for Hydraulics and Pneumatics Introduction to Hydraulic Components

Introduction to Pneumatic Components Introduction to Fluid Conductors Fittings for Fluid Systems Mechanical Power Variables Clutch and Brake Applications Intro to Machine Rigging Rigging Equipment Rigging Inspection and Safety Rigging Mechanics Intro to Fastener Threads Overview of Threaded

Tools for Threaded Fasteners Overview of Non-Threaded Fasteners Understanding Torque Threaded Fastener Selection Distribution Systems Symbols and Diagrams for

Motors DC Motor Applications Solenoids AC Motor Applications

#### FLUID SYSTEMS TECHNICIAN

Benchwork and Lavout Operations . Introduction to CNC Machines Control Panel Functions for the CNC Lathe Control Panel Functions for the Introduction to Circuits

Introduction to Magnetism

DC Circuit Components NFC Overview AC Fundamentals Electrical Instruments Electrical Print Reading DC Power Sources AC Power Sources Conductor Selection Limit Switches and Proximity Sensors Hydraulic Power Variables Hydraulic Power Sources Pneumatic Power Variables Pneumatic Power Sources Hydraulic Control Valves Hydraulic Schematics and Basic Circuit Design Pneumatic Control Valves

Pneumatic Schematics and Circuit Design Actuator Applications Hydraulic Fulid Selection Contamination and Filter Selection Hydraulic Principles and System Design Welding Safety Essentials

PPE for Welding Welding Fumes and Gases Safety Electrical Safety for Welding Introduction to Welding Introduction to Welding Processes Overview of Soldering

Plasma Cutting

SMAW Applications GMAW Applications What Is Oxyfuel Welding? Oxyfuel Welding Applications Relays, Contactors, and Motor Starters Control Devices Distribution Systems



