

// Career Pathway

REVOLUTIONIZE YOUR MAINTENANCE TRAINING

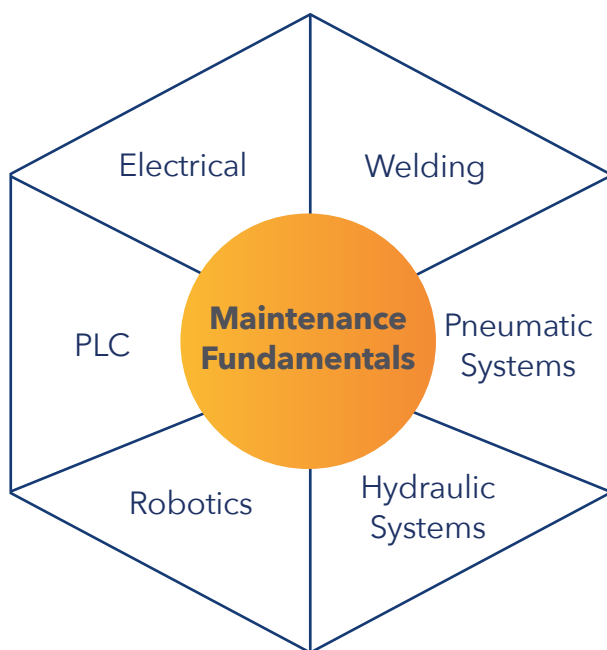


Imagine a world where your maintenance team is always a step ahead, equipped with the latest knowledge and skills to keep your plant running at peak efficiency. Welcome to our Maintenance Content Library—your path to improved maintenance operations.

At the core of our library is the Maintenance Tech Fundamentals pathway. This foundational series is designed to bring every general maintenance technician up to speed with essential preventive maintenance tasks. But we don't stop there.

For those seeking to specialize, our Functional Pathways offer in-depth training. Whether you're a General Maintenance Technician focusing on preventive tasks or a Senior Technician mastering all disciplines, our pathways grow with you, supporting every level of your operations.

Grow and Expand with Foundational & Functional Learning Pathways



Built to Address Your Pain Points

We know that you may face challenges like:

- Uncertainty about the knowledge gaps in your technicians.
- Lack of standardized and accessible training materials for onboarding new hires.
- Difficulty in assessing the training needs of your maintenance team.
- Challenges in scheduling training amidst daily operations.
- Budget constraints that make extensive training programs seem out of reach.

Our solutions are designed with these pain points in mind, offering flexible, accessible, and impactful training that fits seamlessly into your operations.

Maintenance Tech Fundamentals

Configure a training program to your specific needs.
Start with the basics and progress as new skills are attained.

Maintenance Tech Fundamentals

General Mechanical

- Mathematics
- Geometry
- Measurement Tools
- Hand Tools
- Power Tools
- Tool Making Skills
- Drill Bits
- Drill Guides and Drill Stops
- Countersinking Tools
- Threads, Taps, and Dies
- Lubricants and Cutting Fluids
- Cutting Tools for Machining
- Fasteners

Hydraulic Systems

- Introduction to Hydraulics
- Components of a Hydraulic System

Welding - Production

- Welding Skills
- Welding for NDE
- Weld Inspection Gauges
- Metal and Materials
- Welding Processes

Pneumatic Systems

- Introduction to Industrial Automation
- Process Control

- Introduction to Pneumatics
- Components of a Pneumatics System
- Pneumatic Applications

Electrical

- Introduction to Electricity
- DC Electricity
- AC Electricity
- Solid State Electricity
- Introduction to Wiring
- Introduction to Electric Motors
- Electrical Connectors
- Fiber Optics
- Sensor Technology
- Electrical Hand Tools
- Electrical Measurement Conversion
- Electrical Resistance Test Equipment
- Crimping Terminals and Splices
- Assembly of Coaxial Connectors

PLC

- Introduction to Programmable Logic Controllers
- Programmable Logic Controllers

Robotics

- Introduction to Robotics
- Programmable Logic Controllers

Additional Maintenance Pathways

Expand to additional areas of functional-level learning and competency as your employees advance.

Additional Functional Pathways

Hydraulic Systems

- Introduction to Industrial Automation
- Process Control
- Blueprint Reading Fundamentals
- Advanced Blueprint Reading
- Composite Engineering Drawings and Instructions
- Geometric Dimensioning and Tolerancing
- Fasteners
- Introduction to Hydraulics
- Components of a Hydraulics System
- Introduction to Metal Forming

Welding - Production

- Welding Skills
- Welding for NDE
- Weld Inspection Gauges
- Metals and Materials
- Blueprint Reading Fundamentals
- Welding Processes
- Advanced Blueprint Reading
- Geometric Dimensioning and Tolerancing
- Welding Processes

Pneumatic Systems

- Introduction to Industrial Automation
- Process Control
- Blueprint Reading Fundamentals
- Advanced Blueprint Reading

- Composite Engineering Drawings and Instructions
- Geometric Dimensioning and Tolerancing
- Fasteners
- Introduction to Pneumatics
- Components of a Pneumatics System
- Pneumatic Applications

Electrical

- Introduction to Electricity
- DC Electricity
- AC Electricity
- Solid State Electricity
- Introduction to Wiring
- Introduction to Electric Motors
- Electrical Connectors
- Fiber Optics
- Sensor Technology
- Electrical Hand Tools
- Electrical Measurement Conversion
- Electrical Resistance Test Equipment
- Crimping Terminals and Splices
- Assembly of Coaxial Connectors
- Fasteners

PLC

- Introduction to Programmable Controllers
- Introduction to Digital Electronics
- Type of Functions of Programmable Controllers

Additional Maintenance Pathways

Expand to additional areas of functional-level learning and competency as your employees advance.

Additional Functional Pathways

PLC, Continued

- General Structure of PLC
- Physical Integration of the PLC
- Internal Structure of the CPU
- Common PLC Applications
- Introduction to the ControlLogix—General Structure, Number Systems, and Basics of Boolean Logic
- ControlLogix Hardware Composition, I/O Structure and Architecture—Introduction to Tags
- Navigating the Studio 5000 Software and Creating, Opening and Understanding Projects
- Connecting to the Controller—Establishing RSLinx Connection to the Network
- ControlLogix Project Organization and Frequently Used Tag Structures
- Troubleshooting Ladder Diagram Logic in the ControlLogix System
- Creating and Editing Tags and Code—Documenting Troubleshooting Changes
- Troubleshooting Using the Studio 5000 Software—Using I/O Forcing and Toggling Functions
- Troubleshooting ControlLogix Hardware—Discrete and Analog I/O
- Troubleshooting Remote I/O, Controller and Power Supply—Using the Trend and Compare Tools to Troubleshoot

Robotics

- Engineering Drawings
- Fasteners
- Introduction to Hydraulics
- Introduction to Industrial Controls
- Robotics
- Metals
- Measurement
- Introduction to Pneumatics
- Tool Making
- Introduction to Programmable Logic Controllers (PLC)
- Introduction to Industrial Automation
- Non-Destructive Examination
- Engineering Drawings

FLEXIBLE AND AFFORDABLE TRAINING OPTIONS

We understand the pressures of budget constraints and the necessity of operational uptime. That's why we offer flexible buying options:

- **Professional Bundle:** Includes Maintenance Tech Fundamentals.
- **Premium Bundle:** Choose four options from both Foundational and Functional Skills Pathways.
- **Single Career Pathway Purchase Option:** For specific needs without the commitment of a full bundle.