

# Pneumatic & Electro Pneumatic Systems



This is an introduction to the real-world of pneumatic control, power transmission and the hybrid technology of electro-pneumatics. Students gain the knowledge to successfully install, maintain and troubleshoot electro-pneumatic systems and components. Your Return on Investment with this course, will be that your team's skill and ability will be increased and will result in faster reactions when troubleshooting Pneumatic issues on your plant floor.

We include how to apply simple gas laws and to read appropriate symbols to understand component technologies. Then, we dive right into the electrical ladder diagram, components and symbols. Students learn and practice the control of pneumatic actuators, latching of electrical signals, logic controls, timers, and counters. All the hands-on exercises are real world applications and can be used on most of the industry's automated equipment.

## WHAT THIS COURSE COVERS

- Introduction to Compressed Air Technology
- Learn How to Install, Maintain and Troubleshoot Pneumatic and Electro-Pneumatic Automation Systems
- Air Compression and Distribution
- Pneumatic Actuators
- Directional Control Valves
- Latching Electrical Signals

## WHO SHOULD TAKE THIS



- Engineers
- Maintenance Management and Personnel
- Operations Managers

## COURSE OUTCOMES

- Understanding Pneumatics and Electro-Pneumatics Technology.
- Install Maintain and Troubleshoot Electro-Pneumatic Systems and Components.
- Learn about the Control of Pneumatic Actuators, Latching of Electrical Signals, Logic Controls, Timers and Counters.

## COURSE AGENDA

- Pneumatic Principles
- Actuators and Cylinders
- Valves
- Pumps
- Electrical Controls

 Lecture  Hands-on • **ONSITE:** 3-days (24 hours) • **LIVE ONLINE:** 3-days (24 hours)



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