

# Hydraulics & System Troubleshooting



This comprehensive “hands-on” course will provide the participants with the knowledge to understand and troubleshoot hydraulic components and systems. Students will use fluid power graphic symbols and learn to read hydraulic schematics while assembling systems using actual hydraulic components. Participants will learn to safely discharge stored hydraulic energy to comply with “lock out/tag out” procedures. While learning to control and operate hydraulic systems through discussion, demonstration and practice, this course provides your employees with the skills needed to increase your equipment performance and reduce your machine downtime.

## WHAT THIS COURSE COVERS

- Hydraulic Principles and Pumps
- Flow, Pressure, and Directional Control Valves
- Hydraulic Cylinders and Motors
- Fluids, Fluid Conductors
- Accumulators
- Reservoirs, Heat Exchangers, and Filters
- Troubleshooting

## COURSE OUTCOMES

- Understand graphic symbols and hydraulic system schematics.
- Understand the operation and function of hydraulic components.
- Use safe practices when operating and maintaining hydraulic systems

## WHO SHOULD TAKE THIS

- Maintenance Technicians
- Environmental Health & Safety Personnel
- Owners and Managers
- Energy Management Personnel
- Plant and Facility Maintenance Technicians
- Building Managers and Superintendents
- Plant and Facility Managers
- Engineers
- Safety Directors
- Multi-Craft Personnel
- Procurement Personnel

## COURSE AGENDA

- Hydraulic Principles
- Symbols and Circuit Drawings
- Flow Control Valves
- Directional Control Valves
- Check Valves
- Pressure Control Valves
- Pumps
- Motors
- Cylinders
- Accumulators
- Troubleshooting

Lecture    Hands-on   •   **ONSITE:** 4-days (32 hours)   •   **LIVE ONLINE:** 4-Days (32 hours)



ONSITE - TRAINING TOUR - LIVE VIRTUAL - ONLINE - HANDS ON - AUDITS - CONSULTING - **TRAINED WORKERS. STRONGER COMPANIES.**  
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