



INDUSTRIAL MAINTENANCE

Extensive hands-on training in the areas you need it.

Our experienced industry experts deliver **Public Workshops, On-Site Employee Training and Project Facilitation** in the following areas. These courses utilize portable lab equipment to provide intensive hands-on training.

Electrical Fundamentals and Safety	AC and DC electrical systems, including electrical safety procedures, lock-out/tagout, OSHA, operation of relay contacts, input/ output devices, and measuring instruments. Includes hands-on practice using and troubleshooting multi-meters.
AC Motor Controls and Relay Ladder Logic	Learn about the fundamentals of electrical power and theory, as well as the different types of and uses of induction motors, windings types, motor starters and circuits, motor protection, ladder logic symbols, and diagrams.
Programmable Logic Controllers (PLCs)	This five-day workshop provides the basic skills and knowledge you need to work with the programmable logic controllers (PLCs) found in a typical manufacturing plant.
Hydraulics (Level 1)	Learn about the correlation of fluid power principles with machine operation and daily maintenance duties, and the procedures to ensure the safety of maintenance personal and prevent damage to machines.
Hydraulics (Level 2)	Learn about remote control of pressure valves using pilot valves, bleed-off orifices, and proportional controls, and simultaneous control of multiple actuators while maintaining pressure and flow requirements.
Pneumatics (Level 1)	Compressed air production and pneumatic systems, including basic pneumatic components, basic fluid power principles, air compression, preparation, and distribution.
Pneumatics (Level 2)	Basic circuit design, logic and proportional valves, and more complex aspects of the components including basic troubleshooting.

Classroom workshops for developing skills.

These workshops provide the foundational knowledge to upgrade participants skills.

Electrical Principles and Troubleshooting (Part 1)	Foundational concepts of electricity, including terms, circuits, direct and alternating current, and logic gates.
Electrcial Principles and Troubleshooting (Part 2)	Circuit protection and wire sizing, motors and motor control circuits, and transformers, includes numerous real-world examples to improve troubleshooting skills.