

## Fluid Power



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### Description

This course will begin at an entry level and end at an advanced level in the study of fluid power systems. The comparison and study of air and oil as a working medium will be the focus. Participants will enjoy this hands-on class that will provide them with workbooks, handouts, visual aids and working systems to learn with.

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### Outline

- Introduction to Fluid Power Symbology
- Theory and Principles of Fluid Power
- Filters and Fluids
- Pressure Control
- Flow Control
- Directional and Cartridge Valves
- Proportional and Servos
- Cylinders and Motors
- Fixed Displacement Pumps
- Variable Displacement Pumps
- Accessories
- Schematic Reading

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### Prerequisites

There are no prerequisites required for this course other than an interest in fluid power and a willingness to participate in an instructor-led hands-on learning environment.

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### Course Length

32 hours.

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### Performance Objectives

At the completion of this course the participant will be able to:

- Demonstrate a working knowledge of industrial fluid power systems.
- Troubleshoot a fluid power system from the source to the actuator.
- Correctly maintain a fluid power system.
- Understand the design and workings of a fluid power system.
- Select the proper fluid power components for a system.