

COURSE :

Troubleshooting Hydraulic Systems and Components

2 Day Seminar



DESCRIPTION :

Troubleshooting any Hydraulic System effectively requires an approach that is fast and functional.

This course provides an easy-to-follow troubleshooting method which is based on the concept of proactive maintenance with the intent to stop problems before they occur.

This course assumes students have a “working knowledge” of basic hydraulic components and their function within an operational system. The course focuses on the troubleshooting process and the inspection and testing tasks that are part of a systematic approach to locating malfunctions and their underlying causes. It is designed to help the student become aware of the decision making process that is part of a good troubleshooting procedure.

Several hands-on lab exercises require the students to troubleshoot real world system problems. Every application which is being discussed will be totally dissected in an animated program. This animation program allows the instructor to recalibrate; pressure, flow, torque, load and even upsize and downsize of components.

This course can also be totally customized to customer’s application

Each student receives:

- 1 Published textbook
“*Troubleshooting Hydraulic Systems and Components*”
- 2 Course Certificate

For registration or more information call **303.838.7396**
or email armin@deltaparadigm.com

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COURSE OUTLINE:

Troubleshooting Hydraulic Systems and Components

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▴ Component Technology

- o Accumulators
- o Hydrostatic transmission
- o Proportional Valves
- o Servo Valves
- o Pressure Switches

▴ Application

- o Directional control of actuators
- o Pressure control of actuators
- o Cylinders in parallel
- o Cylinders in series
- o Sequence control
- o Hydraulic pump unloading
- o Hydraulic motors in parallel
- o Hydraulic motors in series
- o Mobil Hydraulic application
- o Combination hydrostatic transmission
- o System reaction to pressure and torque adjustments
- o Effects of under sizing components
- o Electric control of actuators

▴ Troubleshooting

- o Safety
- o Basic Troubleshooting requirements
- o Generalization on troubleshooting
- o Noisy and cavitating pumps
- o No system pressure
- o Low or erratic system pressure
- o No movement of actuator
- o Slow or erratic actuator
- o System running hot
- o Common cylinder problems
- o Solenoid failure
- o Internal and external leakage control
- o Troubleshooting hydrostatic transmission

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