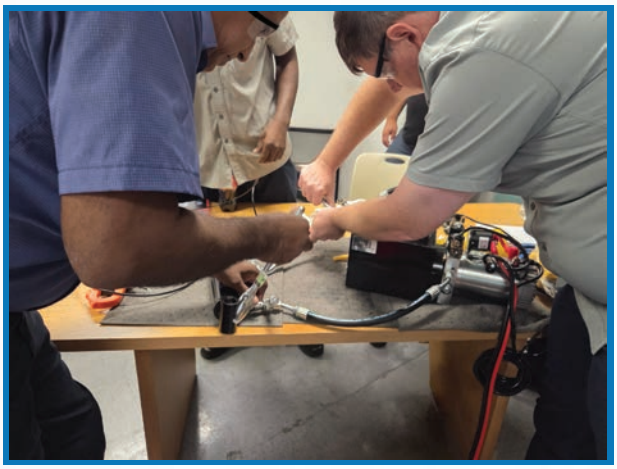
Hands-On Hydraulics Training

Learn the fundamentals, maintenance, and diagnostics of hydraulic systems.



Hydraulic Systems: Fundamentals, Maintenance, and Diagnostics (3-Day Workshop)

Course Length: **24-Hours**

presented by

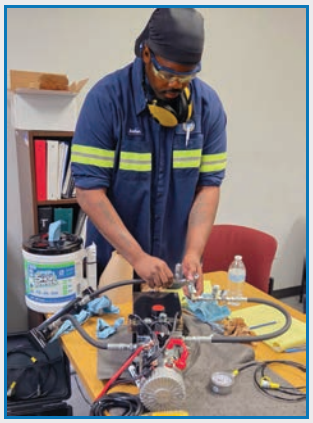
December 8-10th, 2026
AVI Technical Academy
301 E 7th St Delphos, Kansas 67436
call: 1-800-718-7246

Course Description:

This hands-on course provides a comprehensive introduction to hydraulic systems, focusing on key concepts, maintenance practices, and diagnostic techniques. Students will begin by learning the basic principles of hydraulics, including the functioning of pistons, cylinder sizes, pressure dynamics, and fluid mechanics. Using hydraulic trainers and scale models, learners will gain a practical understanding of how different cylinder sizes affect system performance and pressure.

The course will cover critical topics such as air removal, fluid selection, and proper sizing of pistons to prevent system malfunctions. Participants will also explore the operation of hydraulic pumps, including various pump types, their applications, and how to control pressure via mechanical or electronic valves.

Scan The QR Code To Learn More



- Hydraulic system fundamentals
- Pressure and fluid mechanics
- Pistons and cylinder operation
- Pump operation and control
- Fluid selection and air removal
- Component sizing
- Maintenance practices
- Hydraulic diagnostics and troubleshooting
- Safety and best practices