FLUID POWER COURSES

HYDRAULIC SYSTEMS REPAIR



DESCRIPTION

This class will be a follow-up to the Hydraulic Troubleshooting class. It will teach the participant how to repair the various hydraulic components using standard repair kits. This course will be a hands-on, instructor-led course, taking apart directional control valves, cylinders, pumps, actuators, flow control valves, hydraulic motors, and other hydraulic controls.

OUTLINE

- -Review of Hydraulic Principles
- -Repair of Directional Control Valves
- -End Actuator Repair
- -Positive Displacement Pump Repair
- -Hydraulic Motor Repair

PREREQUISITES

The participant must have successfully completed the Hydraulic Troubleshooting class. This class is designed to take the hydraulic troubleshooter to the next level and prepare him to be a hydraulic repair person.

This class is an excellent class for the experienced Mechanical or Electrical Tech who has completed a course in Hydraulic Troubleshooting.

COURSE LENGTH

40 hours.

- -Hydraulic Cylinder Repair
- -Electric Testing of DC Valves
- -Troubleshooting Flow Control Valves
- -Centrifugal Pump Repair
- -Pilot Operated Valve Repair

PERFORMANCE OBJECTIVES

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

- -Demonstrate the ability to install a standard rebuild kit.
- -Successfully rebuild a cylinder.
- -Properly troubleshoot a hydraulic valve.
- -Correctly test the electrical circuits on a directional control or flow control valve.
- -Identify the failed component and repair the hydraulic system.
- -Successfully install a standard rebuild kit in a hydraulic pump or motor.
- -Correctly identify and fix the problem on a hydraulic control.