



Basic Hydraulics Course

Time: 7 ½ hours Cost: \$300

Covering hydraulic symbols and schematics, a complete hydraulics operating demo, cylinders, directional control valves, filters, flow controls, principles, pumps, rotary actuators, and pressure controls.

Building a Complete Hydraulic Operating System

Time: 1 hour Cost: \$40

In this unique module, we detail a step by step approach to building a complete hydraulic system by illustrating each individual component required to make a working system. A working system is illustrated with tips on system design along the way.

Flow Controls

Time: 1 hour Cost: \$40

This course contains information on utilizing Flow Controls in a practical Hydraulic circuit. Meter in and meter out circuits are examined as well as component construction, symbology, and placement in the circuit.

Hydraulic Filters

Time: 32 minutes Cost: \$40

This course explains basic filter construction and the various locations in systems. Topics covered include: ISO cleanliness codes, filter Beta ratios, and other contamination control information.

Hydraulic Cylinders

Time: 38 minutes Cost: \$40

The course looks at two basic types of cylinders: rod and telescoping. The relationship of flow and pressure vs. area is examined. Cut-a-ways and take-a-parts used in an actual operating system are then demonstrated.

Hydraulic Pressure Control

Time: 36 minutes Cost: \$40

The schematic symbols for a pressure control and their variations are explained. Direct and pilot operated control designs are discussed. An actual operating system with pressure control will reinforce the concepts presented throughout the course.



Hydraulic Pumps

Time: 55 minutes Cost: \$40

Both fixed and variable pump design are reviewed. Symbology, cut-a-ways, and an actual operating unit are used to help understand the pumps function.

Hydraulic Principles

Time: 35 minutes Cost: \$40

This explains Hydraulic principles and physics commonly used in all hydraulic systems. A few topics include Pascal's law, pumping principles, series and parallel circuits, line sizing, and horsepower requirements.

Hydraulic Rotary Actuators

Time: 38 minutes Cost: \$40

In this course, various cut-a-ways of hydraulic motors and rotary actuators are shown. Torque and speed formulas are explained.

Hydraulic Symbology and Schematic Reading

Time: 45 minutes Cost: \$40

A straight forward approach describing graphic symbology and their actual hydraulic working components will make reading schematics easy.

Hydraulic Bucket Truck Overview

Time: 51 minutes Cost: \$40

This course begins with a brief description of aerial bucket truck pumps, outriggers, tool circuit, and upper controls. How to troubleshoot each circuit is explained.

Hydraulic Directional Control

Time: 1 hour Cost \$40

Covers how to construct and read the ISO symbols for directional valves. The course looks at the difference between poppet and sliding spools. Both of these designs can be directly or pilot operated. Cut-a-ways and take-a-parts of several directional valves are shown.

IFPS Hydraulic Specialist

Time: 8 ½ hours Cost: \$895

This is the complete IFPS Hydraulic Specialist Review. This review takes you through all seven chapters, and every outcome, to prepare you for the test.



IFPS Mobile Hyd. Mech. Written & Hands-On Review Combo

Time: 12 hours Cost: \$450

This is the complete IFPS Mobile Hydraulic Mechanic Review along with the 6 Hands-on one hour each station reviews. This review takes you through all the Tasks/Outcomes and explains the Hands-on stations, showing the tool and charts used on the tests and other important info to prepare you for the test.

IFPS Hands-On Job Performance Review (All 6 Stations)

Time: 6 hours Cost: \$250

This is the entire IFPS job performance review package covering Stations 1 through 6.

IFPS Job Performance Station 1: Identifying Symbols

Time: 1 hour Cost: \$50

This review explains how to identify symbols on a schematic, how they are drawn, and the name for each symbol.

IFPS Job Performance Station 2: Fasteners and Fittings

Time: 1 hour Cost: \$50

This review will show you how to identify fasteners and fittings, using the tools provided in the test kit, and how to use them.

IFPS Job Performance Station 3: Use of the VOM Multi-Meter

Time: 1 hour Cost: \$50

This review will identify all the electrical symbols as well as give you a hydraulic and electrical analogy. This course will also review setup and use of the VOM multi-meter, as well as demonstrate on how to take voltage, resistance, and amperage readings.

IFPS Job Performance Station 4: Measurements

Time: 1 hour Cost: \$50

This review will show how to use and make proper measurements using a scale, dial caliper, and a micrometer.

IFPS Job Performance Station 5: Fluid Conductors

Time: 1 hour Cost: \$50

This review shows how to measure and identify various tubes, hoses, and conductors.

IFPS Job Performance Station 6: Tube Benders

Time: 1 hour Cost: \$50

This course explains how to use the tools to bend and flare a tube and fit to a fixture.

COMING SOON! IFPS Pneumatic Specialist Review