

Fundamentals of Hydraulics(FOH) Class

What you will learn –

- Principles of fluid pressure, flow, work, energy, force, torque & power (industrial systems focus)
- Principles of energy change (electrical, hydraulic, heat, sound, Etc...) in hydraulic systems
- Power consumed by hydraulic systems & why hydraulic systems generate heat?
- Hydraulic component symbols and terminology used in industrial & mobile systems
- Reading and interpreting of basic hydraulic schematics
- Functional utilization of flow and pressure control valves in terms of pressure drop
- How flow controls work to control actuator speed
- Functional utilization of directional control valves
- Function and use of control valve “X” (pilot) and “Y” (drain) ports
- Fundamentals of hydraulic pumps (internal/external gear, vane & piston) and their application
- Function and operation of cylinders and hydraulic motors
- Introduction to fluid cleanliness & filtration
- Knowledge reinforcement with hands-on lab exercises

This is a 1st level hydraulics training course, recommended for those who are new to hydraulically powered and controlled machines and equipment. It's perfect first class for those with no prior formal training in hydraulics. This training course is recommended for plant engineering personnel tasked with hydraulic system improvement, system modifications and system design.

Prerequisites: Proficiency in reading & math (60% lecture & 40% hands-on in the lab)

For more information please visit our website ~

<https://www.etshydro.com/course-dates-training/>