

# Basic Hydraulics

## Overview:

- This course introduces the physical parameters, basic symbols, operating principles of components and the interpretation of basic hydraulic circuits diagrams to learners.
- This course is ideal for those who want to broaden their understanding of hydraulics and is an ideal preparation for the Basic Hydraulics course.

## Participant Profile:

- Operation, Maintenance, Assembly & Planning personnel designers.
- Engineering Students.

## Contents:

- Basics principle and operation of a hydraulic system.
- Identify, name and explain the function of different hydraulics components in a hydraulic circuit.
- Hardware technology and characteristics data for valves and actuators.
- Interpretation of basic hydraulic circuit diagrams.
- Reading and interpreting basic hydraulics circuits diagrams for direction, speed, pressure and position.
- The effect and influence of incorrect settings on hydraulics systems.
- Solving the logic using simulation software.
- Practical exercise base on industrial circuits.

## Learning Target:

The Participants will be able to

- Understand different types of hydraulics components and their application.
- Demonstrate and understanding of hydraulics circuit diagrams and symbols.
- Describe safety aspects relating to hydraulics systems.
- Understand the relation between pressure and flow.

## Prerequisites:

- Basic Knowledge on fluid.
- Basic knowledge on computer application
- Communication Skills in English.

## Teaching & Learning Media:

- Multimedia Presentation.
- Cut-section & Transparent models.
- Sample units & Power units.

## Evaluation:

- Theory & Practical Exam
- Project work based on Industrial Application.

## Time Durations:

- 36 Hours
- 6 Hours/ Day

## Fee:

- Contact us for more details.