

Basic Pneumatics

Overview:

- From the function and the properties of selected components to the setup of pneumatic operating diagrams – many basics that pneumatic engineers need to know.
- Participants will be able to design a Pneumatic circuit for different applications.

Participant Profile:

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

Contents:

- Basics principle of Physics in Pneumatics
- Compressed air generation, compressor types.
- Difference between Hydraulics & Pneumatics system.
- Various types of Actuators and its working.
- Valves, Types of Valves and their features
- Position Control, Speed Control, Logic Control,
- Pressure Control, Time Dependent Control
- Fault finding procedures and systematic troubleshooting.
- Practices of Pneumatic Simulation Software.

Learning Target:

The Participants will be able to

- Identify different energy supply elements related to Pneumatics.
- Identify the Pneumatic power system elements.
- Select the appropriate elements/ components/ symbols for the Pneumatic process.
- Select different standard elements.
- Reading and preparing pneumatic diagrams.

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:

- ₹ 5500/- + GST

