Advanced Pneumatics

Overview:

- From the function and the properties of selected components to the setup of pneumatic operating diagrams. Extend your technical and methodical knowledge.
- The addresses specific issues relating to maintenance and ability to understand the functional relationships of complex machinery.

Participant Profile:

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

Contents:

- Fundamental of Electro-pneumatic control technology.
- Electrical symbols used for contacts, switches, relays, timer and contactors.
- Construction and working and use of solenoid operated direction control valve.
- Construction and working principle of sensors- Magnetic, Inductive, and Reed switch.
- Differentiate between Open and Closed loop.
- Interpret graphical symbols used in electrical circuits and electro-pneumatic syetems.
- Practical exercise base on industrial circuits.

Learning Target:

The Participants will be able to

- Awareness on the role of pneumatics and electro-pneumatics in automation.
- Handle electro-pneumatic systems during operation in every day.
- Design, assemble and test complex electro-pneumatic system.
- Maintain and troubleshoot electro-pneumatic components.
- Understand the function of emergency controls in pneumatic system.

Prerequisites:

- Basic Knowledge on Pneumatics.
- 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.