

## JTP 105 - Industrial Pneumatics

### Learning Outcomes

- Understand the fundamentals of compressed air generation & distribution
- Understand, differentiate and describe the construction, design features, and operation of industrial pneumatic products.
- Understand technical specifications and select products to suit industry requirements
- Interpret, Draw and explain graphical symbols for industrial pneumatic products.
- Design, assemble, and test Pneumatic and Electro Pneumatic circuits based on industrial applications
- Maintain and troubleshoot products based on industry scenario

### Contents

- Fundamental Principles of Pneumatics and Electro Pneumatics
- Free Air delivery requirements for a pneumatic system,
- Classification of Pneumatic elements and their functions
- Understanding and representation of symbols as per ISO 1219 / ISO 5599 standards
- Designing of Pneumatic and electro pneumatic circuits
- Troubleshooting Pneumatic & Electro pneumatic circuits
- Functioning of Electro Pneumatic products such as Magnetic sensors, Pressure Switches, Relay, etc.,
- Basic Electro Pneumatic Circuit designing using relay ladder diagram

### Evaluation

Online Examination

### Eligibility

Basic Technical Knowledge

### Target Group

Institute - Student, Faculty

Industry - Design (Engineer / Manager) / Trainer

### Duration

4 days

### Training Materials

Used for Training

- Multimedia Presentation

- Cut Sections / Wall Posters
- Magnetic Symbols
- JASP - Product Animations
- Pneumatic and Electro Pneumatic Trainer Kits

### **Handout to Participants**

- Courseware, Participation certificate