

# Essentials of Industrial Automation

## 3 Weeks

**Week 1 - E-Learning**  
4 hours/day  
Online + Trainer

**Week 2 - E-Learning**  
4 hours/day  
Online + Trainer

**Week 3 - Practical**  
8 hours/day  
In lab with trainer



### WEEK-1 AND WEEK-2: E-LEARNING 4 HRS/DAY (ONLINE + TRAINER)

- » Essential pneumatic elements
- » Essential hydraulic elements
- » Design and commissioning of pneumatic controls
- » Principles and practice with pneumatic circuits
- » Essential electric control elements
- » Sensors for pneumatic controls
- » PLC programming
- » Fundamentals of Industrial robots
- » Introduction to Industry 4.0

### EXTRA TOPICS

- » Importance of quality
- » Importance of industrial safety
- » Expert lecture on industrial robotics
- » Expert lecture on modern trends in manufacturing like industry 4.0

### WEEK- 3: PRACTICAL AT IIS MUMBAI PARTNER CENTRE 8 HRS/DAY (IN LAB, WITH TRAINER)

- » Comprehensive practicals on pneumatics and electro pneumatics using state of the art training equipment
- » Design and implementation of industrial pneumatic controls
- » Design and implementation of pneumatic controls using electric relay logic
- » Design and implementation of industrial electro pneumatic controls
- » Pneumatic automation involving programmable logic controllers
- » Commissioning and testing of industrial applications using PLC
- » Basics of simulation
- » Introduction to modular production systems



### COURSE INCLUDES:

-  E-Learning access for course duration
-  Downloadable content
-  Multi device access
-  Certificate of completion

### CONTACT DETAILS:

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### COURSE FEE:

**For industry candidates:**  
**Rs. 15000/- & above**  
(including taxes)

**For students (Inaugural pricing):**  
**Rs. 4000/-** (including taxes)

### FOR REGISTRATION



SCAN QR CODE