

Industrial Training Program PLC I Pneumatics I Hydraulics



Module I: Industrial hydraulics

- Basic concepts of fluid mechanics and hydraulic systems
- Physical fundamentals and principles of hydraulic system
- Hydraulic system operation
 Fluid power symbols as per DIN ISO 1219
- Hydraulic components (pumps, motors, cylinders valves: directional, pressure, flow; accessories
- Electro-Hydraulic control
 Instructions, guidance, and review for practical
- Practice by self-trial of circuit making on the demonstration power pack

Implementation : Theory & Practice

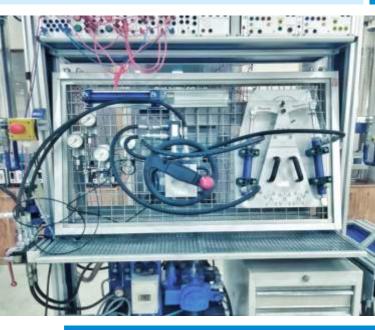
Language : English

Duration : 40 Hrs

Prerequisite : Basic Engineering Fundamentals

Training Location : AKGEC BOSCH, India

Certification Partner: BOSCH Rexroth



Module II: Industrial Control

- Introduction to PLC and applications
- Hardware details, digital I/O's, analog I/O's
- Software installation, hardware configuration project development
- Logic development, ladder diagram
- Addressing of digital I/O's, basic PLC programming (Programming On/Off inputs to produces On/Off outputs
- Selection of the necessary hardware units
- Programming & Simulation
- Start-up procedure and testing
- Batch processes and sequential control

Implementation : Theory & Practice

Language : English

Duration : 40 Hrs

Prerequisite : Automation Technologies Basic

Training Location : AKGEC BOSCH, India

Certification Partner: BOSCH Rexroth



Module III: Industrial Pneumatics

- Introduction to pneumatic system control, and compressed air preparation
- Pneumatics cylinders
- Direction Control valves
- Controlling of pneumatic cylinders: Direct and Indirect control
- Electro-Pneumatic Control
- Solenoid operated valves
- Pneumatic & Electro-Pneumatic Circuits with practical aspects
- Speed control of cylinders
- Coordinated motion control

Implementation	:	Theory & Practice
Language	:	English
Duration	:	40 Hrs
Prerequisite	:	Automation Technologies Intermediate
Training Location	:	AKGEC BOSCH, India
Certification Partner	:	BOSCH Rexroth

Teaching & Learning Media

- Multimedia Presentation
- Cut Sections / Transparent Models
- PC Animations
- Circuit Simulation on Trainer Kit



The perfect balance

between theory and practice ...



Centre Activities



CONTACT INFORMATION

AKGEC-BOSCH Centre of Competence Automation Technologies

♦ AKGEC SKILLS FOUNDATION

AKGEC Campus

27th Km Stone, NH-24, Delhi - Hapur Bypass Road Adhyatmik Nagar, Ghaziabad - 201009

- © +91-9910249199, 8743879879
- www.akgec-bosch.org I www.akgecskills.in
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To know more about Training, Research & Consultancy Call Us at: +91-8802965935, +91-9654597500

TOLL FREE: 1800-3000-6484

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