



## ON-Site Training Automation Technologies Hydraulics | Pneumatics | Drives & Control

Three Days Training Program For  
Engineers | Supervisors | Technician



**AKGEC-rxroth**  
COE in Automation Technologies

## Training Program on 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)
- ◆ Safety aspects
  - Electro-Hydraulic control
- ◆ Instructions, guidance, and review for practical hydraulic aspects
- ◆ Practice by self-trial of circuit making on the demonstration power pack
- ◆ Instructions on storage, commissioning, troubleshooting, maintenance, and safety



## Training Program on 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

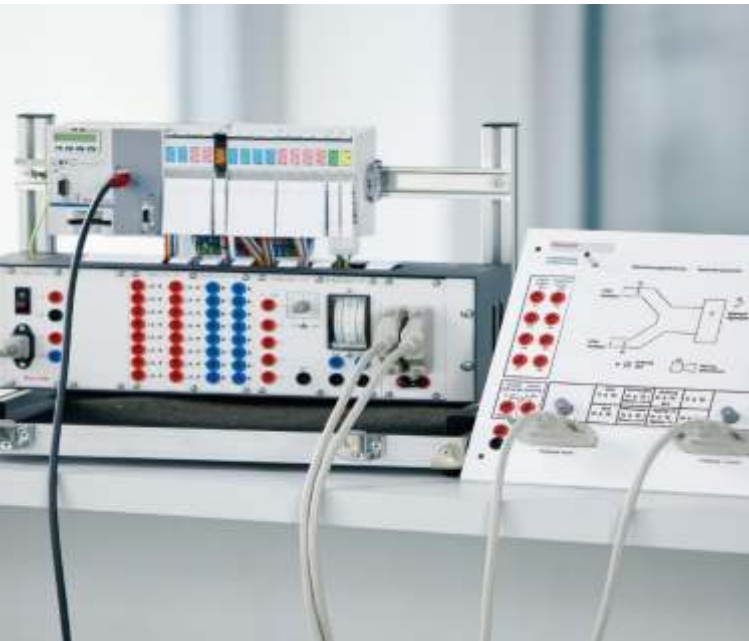
- ◆ Programming

- ◆ Simulation

Start-up procedure and testing

- ◆ System Expansion and Data networks

Batch processes and sequential control



## Training Program on Industrial Pneumatics

- ◆ Introduction to pneumatic system control, and compressed air preparation

Pneumatics cylinders

- ◆ Direction Control valves

Controlling of pneumatic cylinders: Direct and Indirect control

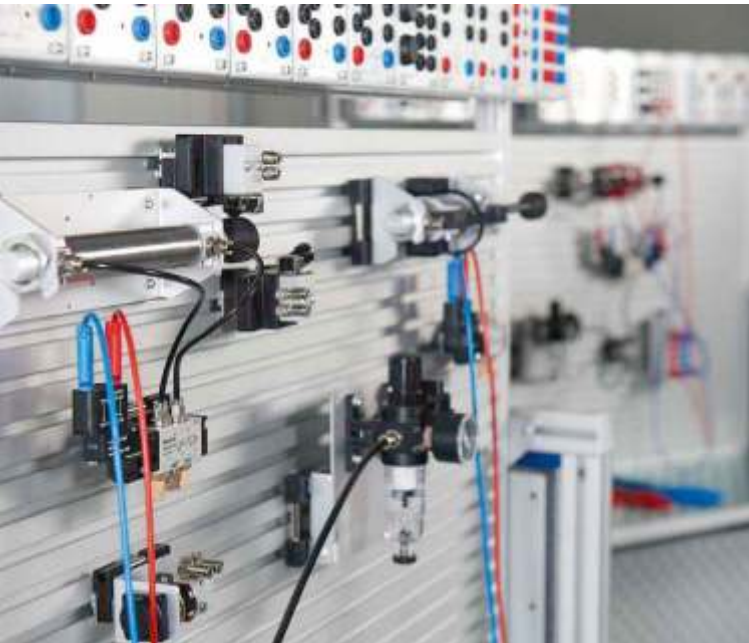
- ◆ Electro-Pneumatic Control

- ◆ Solenoid operated valves

- ◆ Pneumatic & Electro-Pneumatic Circuits with practical aspects

- ◆ Speed control of cylinders

- ◆ Coordinated motion control



## Onsite Training Program

CEAT Onsite Training Brings the Experts to You, Through our Onsite Training Services, CEAT can bring our industry-leading instructors, proven training materials, and indispensable hands-on training devices directly to you.

You gain a customized training that is highly flexible and one specially designed and tailored to help you improve your productivity and efficiency

Our internationally recognized training programs will enable your organization to:

- ◆ Increase productivity by Minimizing system downtime by providing your employees with the familiarity of Industrial fluid-based actuation systems and controllers as per the need of modern industries.
- ◆ This course is entirely open for the trainees to opt between the available modules or can combine one or two modules as per the need.



## Key Take-Away

After undergoing this program, the participants will be able to:

- Illustrate Manufacturing excellence through relevant automation.
- Demonstrate In-depth knowledge in the selected sector or module.
- Perform essential functions including Installation, Maintenance, Troubleshooting

The perfect balance  
between theory and practice ...



**40 : 60**



## 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](http://www.akgec-bosch.org) | [www.akgecskills.in](http://www.akgecskills.in)

✉ [info@akgec-bosch.org](mailto:info@akgec-bosch.org)

📘 [www.facebook.com/bosch](https://www.facebook.com/bosch)

To know more about Training, Research & Consultancy  
Call Us at: +91-8802965935, +91-9654597500

TOLL FREE : 1800-3000-6484

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