

Advanced Industrial Automation Training PLC, HMI and SCADA

Whether you're a veteran of factory automation looking to brush up on your skills or you want to learn about a new technology FESTO Abu Dhabi Polytechnic classes provide you the training needed to be proficient.

Our training classes are taught by factory-trained engineers with years of experience in the subject matter. In most classes, participants work at lab stations for a hands-on experience with the product.

TRAINING HIGHLIGHTS

- Basic Industrial Control- Understanding. Switches, Actuators, Sensors, Relays
- PLC S7300 Wiring, Installation & Programming.
- HMI Wiring, Installation & Programming
- SCADA Screen Designing and Interfacing with PLC via Ethernet.
- AC Drive Wiring, Installation and Programming.
- PLC programming for entire manufacturing and packaging process.



FESTO AUTHORIZED & CERTIFIED TRAINING CENTER

YOUR WAY TO SUCCESS GET CERTIFIED



BUILDING THE FUTURE TECHNOLOGIES OF UAE

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ADPOLY FACT

WHY FESTO

TRAINING FACILITIES

Electro pneumatic LAB

All aspect of pneumatic can be learned in this Lab, pneumatic technologies are the first step in automation training .

The LAB t is divided into three sections to get students familiar with pneumatics technology and give them different kinds of learning experiences starting from demonstrating the basic operations of simple pneumatic components up to doing researches. It will also help the participant to apply what he/she has learned in lectures about pneumatics and give demonstration of the various possibilities of pneumatic systems.

ADPOLY FACT is a governmental entity managed by the Institute of Applied Technology. it is an exciting new venture that is bringing an internationally recognized hands on training in collaboration with various partners and a talented team of instructors.

Partnered with FESTO as a world leader in the field of mechatronics and industrial automation ABUDHABI POLYTECHNIC has established a state of the art FESTO Authorized and Certified Training Center (FACT) which offers training to students and local industry technical professionals in the following topics:

- Electro-Pneumatics basic and advanced level
- Electro-Hydraulics basic and advanced level
- Mobile Robotics - Robotino
- PLC-programming of a Flexible Manufacturing System
- Advanced PLC-programming
- Industrial Robotics – Robot Assembly -
- PLC-programming of a Process Automation system
- Process control technologies
- Automation systems

Since more than eighty years FESTO has been providing automation components, modules, solutions and industrial training.

Abu Dhabi Polytechnic has been authorized by FESTO to offer expertise and know-how to middle east under the FESTO brand.

Whether you are still a student, fresh graduate or even an engineer, FESTO Abu Dhabi Polytechnic is the right place to enhance your knowledge and develop your skills in mechatronics and industrial automation.

FESTO Abu Dhabi Polytechnic offers unique training:
guaranteed by FESTO standard
uses industrial modules
flexible
customized training
and productive

upon completion of your training :

FESTO CERTIFICATE
will be provided

This knowledge and know-how are now being customized to fulfill the UAE industrial needs and to provide industry tailored human technical development in the field of mechatronics and automation



HYDRAULIC LAB

Upon successfully completion of pneumatic courses the participant will be able to:

- Identify and explain the function of pneumatic components such as a lubricator, a filter, Regulator, ..., etc.
- Build and design simple and advanced pneumatic circuits based on given schematic or industrial need.
- Trouble shoot any faults that occur in the construction or operation of a pneumatic circuit.

This Lab builds up the participant knowledge in hydraulics starting from introducing hydraulic component, trouble shooting ,building hydraulic systems and up to designing customized hydraulic circuits .

Process Control and Advanced Control Strategies

The LAB will equip you with the knowledge needed for optimizing the performance of your plant's controls. You will learn the essentials of process dynamics, PID controllers, and tuning. You will also learn to identify poor control, fix the problems and optimize your control loops.

- Gain a solid understanding of process dynamics and their relevance to controller tuning.
- Obtain insights into the inner workings of PID controllers.
- Learn about different controller types, algorithms, and options—and when to use which one.
- Discover the appropriate tuning techniques for different process types and tuning objectives.
- Learn how to tune gap, cascade, split-range and override control strategies.
- Develop techniques for quickly assessing the performance of control loops.
- Establish if tuning is the real/only problem affecting a particular control loop.
- Learn how and when to apply cascade and feedforward controls.
- Understand the design, use and tuning of ratio and override controls.
- Discover how to deal with nonlinear processes and control elements.

