

Course Overview:

This training course covers the function of basic devices for measuring and controlling different kinds of variables in process control. Introduces closed-loop control and PID functions. Introduces maintenance of analog and digital devices.

Course Objective:

- Provide general and specialized aspects of industrial security system.
- Define setpoint and error.
- Explain how measurement and control are related in industrial processes.
- Describe the four essential functions of an automatic control system.
- Discuss the differences between modern automatic control systems and older ones.
- Identify the standard signals used in process control.
- Explain why measurement is necessary and discuss conditions that affect the degree of accuracy required.

Course Outline:

- The Nature of Process Control
- Process variables
- On-off control
- Measuring data
- Controlling variables
- Error and feedback
- Open- and closed-loop control
- Elements of Process Control
- Analog and digital control signals
- Linear and nonlinear transducers
- Signal operating values
- Process Measurement Fundamentals
- Principles of Transducer Operation
- Basic Process Measurement Systems

Who Should Attend:

- Electronic Technicians , Chemical Technicians , Electrical Technicians , Instrumentation Technicians and Electricians

Training Language:

Eng/Ar

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation