

Industrial Measurement Techniques & Equipments

Course Description

Industrial Measurement and Control Equipments/Systems are involved in a wide variety of industries, including oil & gas, refinery, petrochemical, power generation and gas distribution.

This area of training specializes in:

- Preparing people to install, test, configure, commission, maintain and specify industrial measurement and control equipment for use in industry.
- The primary areas of measurement are pressure, level, temperature and flow and control of these same variables.
- Participants also have the opportunity to acquire knowledge of analytical equipment, control valves, weighing systems, hydraulic and pneumatic equipment.
- Computer based distributed control systems and programmable logic controllers that are a feature of the technology that is used in industry.

Course Outline

- Describe Industrial Processes.
- Fault Finding in Control Systems.
- Pressure, Level Temperature and Flow Measurement.
- Pneumatic Instruments.
- Linear Displacement, Proximity.
- Control Valves.
- Pneumatic and Hydraulic Automation.
- Signal Conditioning, Indicators, Recorders and Alarm Modules Programmable Logic Controllers.
- Control Loop Characteristics.
- PID Control.
- Control Loop Tuning.
- Advanced Control Systems.
- Analytical Instrumentation.
- Distributed Control Systems.
- Smart Instruments.
- Configure Advanced Control Systems.
- Configure A DCS.
- Thermodynamics and Heat Transfer.
- Fluid Mechanics.
- Physical and Chemical Processes.
- Fault Finding in Control Systems.
- Maintain Complex Control Systems.
- Select, Size and Specify Control Valves.
- Select, Size and Specify Flowmeters.
- Industrial Data Communications.
- SCADA and HMI Systems.
- Soldering Techniques.
- Power Supplies.
- Transistor Circuits.
- Fault Finding.
- Operational Amplifiers.
- Electronic Logic.
- A/D and D/A Converters.
- Electronic Numbering Systems

Who Should Attend

This program is designed for Process, Maintenance, Commissioning, and Applications Engineers and Technicians who have direct responsibility in the design installation, troubleshooting and maintenance of industrial measurement and control systems and equipments.

For any further information please contact us at:

P.O. Box 3808, Al-Khobar 31952, Kingdom of Saudi Arabia
Tel: +966 (3) 865-6992 Ext 23 , Fax: +966 (3) 865-6922
E-mail: info@mstcme.com / das.mstc@yahoo.com