

INSTRUMENTATION & ELECTRONIC COURSES

CONTROL VALVES, ACTUATORS and POSITIONERS (IE6B)

OBJECTIVE:

This course is designed to provide knowledge in the construction, operation and selection of control valves and positioners.

WHO SHOULD ATTEND?

This course is recommended for anyone involved with the operation and maintenance of control valves and positioners.

COURSE CONTENT:

Control Valves:

- Valves
- Construction
- Characteristics
- Maintenance
- Cavitation
- Flashing

PRACTICAL TASKS:

- Disassemble, check parts of globe, cage, butterfly, ball, and diaphragm valve
- Check plugs of globe and cage valve (linear, quick opening and equal percentage plugs.)

Actuators and Positioners:

- Actuators
- Pneumatic, Electro and Hydraulic
- Piston Diaphragm
- Positioners
- Bailey, Fisher, and Foxboro
- Volume and Pressure Boosters

PRACTICAL TASKS:

- Calibrate fisher positioner
- Calibrate foxboro positioner

Duration: 10 Days

Date:	Venue:	Cost:
Feb 2 – 13	Dammam	SR10,000
Aug 16 – 27	Dammam	SR10,000

CONTROL AND PROCESS DESIGN (IE33A)

OBJECTIVE:

This course is designed to provide knowledge of different types of control systems for the basics or concepts of advanced control systems.

WHO SHOULD ATTEND?

Control system designers, instrumentation, control engineers and anyone involved in control and process design consideration.

COURSE CONTENT:

- Feedback Control Response
- Feed Forward Level Response
- Mass Balance Level Response with a time Delay
- Loop Gain
- Transfer Lags
- Cascade Control Systems
- General Cascade Control
- Cascade Level Control System
- Cascade Control Summary
- Feed Forward Cascade Control Loop Operation

Duration: 5 Days

Date:	Venue:	Cost:
Feb 16 – 20	Dammam	SR6,000
Jun 21 – 25	Dammam	SR6,000