

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:
Jan 24-Feb 4	Dammam	SR 12,000
May 16-27	Jubail	SR 13,000
Sept 26-Oct 7	Dammam	SR 12,000

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:
Apr 18-22	Dammam	SR 7,000
Aug 16-20	Abu Dhabi	SR 9,000
Nov 28- Dec 2	Dammam	SR 7,000