

INSTRUMENTATION & ELECTRONIC COURSES

CONTROLLERS and CONTROL LOOPS (IE5B)

OBJECTIVE:

This course has been designed to enhance the trainee’s knowledge of the devices that control process variables and how several different types of instruments together make a unified control system.

WHO SHOULD ATTEND?

Maintenance instrument technicians and foremen will find this course informative and beneficial.

COURSE CONTENT:

Controllers and Tuning:

- Introduction to Controllers
- Types of Controllers and their Operation
- Controller Mode and Tuning
- Controller Features and Installation
- Testing and Maintaining Controllers

Test Controller Mode:

- Proportion
- Proportion + Integral
- Proportion + Derivative
- Proportion + Derivative + Integral

Control Loops:

- Fundamentals of Control Loops
- Control Loop Characteristics
- Cascade and Multivariable Systems
- Loop Dynamics
- Loop Protection

Duration: 10 Days

Date:	Venue:	Cost:
Feb 21-Mar 4	Dammam	SR 12,000
Jun 20-Jul 1	Jubail	SR 13,000
Dec 26-Jan 6	Dammam	SR 12,000

DCS/ICS OPERATION (IE14AE)

OBJECTIVE:

This course provides the participants with full theoretical and practical details about DCS/ICS OPERATION through DCS software including DCS/ICS Operation Troubleshooting in Electrical Systems and advantages of DCS .

WHO SHOULD ATTEND?

This course is recommended for electrical operation and maintenance engineers, supervisors, and technicians who have experience in DCS/ICS OPERATION and need more details of DCS wiring, software, A/D modules, and Applications.

COURSE CONTENT:

- Distributed control system DCS
- DCS fundamentals
- DCS architecture & hardware system overview
- Field/DCS wiring diagram
- DCS software fundamentals
- Reports, alarm & event summary display
- Programmable logic controller
- PLC concepts
- Applications

Duration: 5 Days

Date:	Venue:	Cost:
Mar 28-Apr 1	Dammam	SR 7,000
Jul 25-29	Abha	SR 8,000
Nov 14-18	Dammam	SR 7,000