

INSTRUMENTATION & ELECTRONIC COURSES

BOILER LEVEL CONTROL (IE34A)

OBJECTIVE:

This course is designed to provide knowledge of the instrumentation and control system of boilers.

WHO SHOULD ATTEND?

This course is intended for control system designers, instrumentation, control staff and operation staff.

COURSE CONTENT:

- Control Considerations
- Instrumentation Display
- Response to a Steam Demand Increase
- Two-Element (2-e) Feed Water Control
- Two Element Biasing Considerations
- Feed Water Control
- Programmed Boiler Drum Level
- Ramped Drum Level by Computed Setpoint
- Boiler Level Control Valves
- Feed Water CV Swap

PRACTICAL TASK:

- Review all Stages of Control of Boiler and Explanation.

Duration: 5 Days

Date:	Venue:	Cost:
Feb 23 – 27	Dammam	SR6,000
Jun 28 – Jul 2	Dammam	SR6,000

CALIBRATION MAINTENANCE OF METERS (IE2A)

OBJECTIVES:

This course is designed to provide knowledge in the construction, operating characteristics, calibration and maintenance of meters.

WHO SHOULD ATTEND?

This course is recommended for engineers and technicians involved in calibrations, installation, maintenance and troubleshooting of meters.

COURSE CONTENTS:

- Moving Coil Instruments
- Moving Ion Instruments
- Converting Moving Coil to Ammeter, Voltmeter, and Ohmmeter
- Moving Coil AC, DC Measurements
- Dynamometer Instruments Measurements
- Whattmeter, Whatthour Meter
- Var Meter, Amperhour Meters
- Capacitance Meter
- Insulation Meter (Megger)
- Testing Calibration, and Maintenance

PRACTICAL TASKS:

- Assembly for moving coil meters
- Changing ranges modifications
- Calibrations for instruments meters

Duration: 5 Days

Date:	Venue:	Cost:
Jan 5-9	Dammam	SR6,000
Jul 19-23	Dammam	SR6,000