

INSTRUMENTATION & ELECTRONIC COURSES

INSTRUMENTATION SIGNALS, SENSORS AND RECORDERS (IE51B)

OBJECTIVE:

This course is designed to provide participants theoretical information and practical details relating to instrumentation

WHO SHOULD ATTEND?

COURSE CONTENT:

- Measurement and Unit
- Introduction to Instrumentation Equipment
- ISA Symbols
- Pressure Instrumentation
- Level Instrumentation
- Temperature Instrumentation
- Control Valves and Accessories

PRACTICAL TASK:

- Verification for Different Sensor
- Setting Adjustment for Different Switches
- Calibration for Different Transmitters

Duration: 5 Days

Date:	Venue:	Cost:
Mar 7-18	Dammam	SR 12,000
Jul 4-15	Riyadh	SR 13,000
Oct 3-14	Dammam	SR 12,000

INTRODUCTION TO DIGITAL ELECTRONICS (IE9A)

OBJECTIVE:

This course is an introduction to the digital electronics identifying binary, octal hexadecimal systems and design steps in the digital circuits and the function of flip flops.

WHO SHOULD ATTEND?

This course is recommended for electronic technicians and foremen who are involved in digital electronic circuits.

COURSE CONTENT:

- Numerical Systems
Binary, Octal, Hexadecimal System, ASCII Code.
- Gates
And, or, , Xor, Xnor Symbols
Truth Tables, Boolean Algebra
Conversion between Function & Gates
- Design Digital Circuits Steps
- Karmought M&P, Adder, Subtractor
- Combination Circuits
Decoders & Encoders
Multiplexer & Demultiplexers
PLA (Programmable Logic Array)
- Flip Flops
RS Flip Flop, Truth Tables & Timing Diagram
D Flip Flop, Truth Tables & Timing Diagram
JK Flip Flop, Truth Tables & Timing Diagram
T Flip Flop, Truth Tables & Timing Diagram

PRACTICAL TASKS:

- Represent the function of gates
- Flip Flop operation
- Register & counter with flip flop

Duration: 5 Days

Date:	Venue:	Cost:
Feb 14	Dammam	SR 7,000
Jun 13-17	Abha	SR 8,000
Dec 5-9	Dammam	SR 7,000