

ELECTRICAL COURSES

DIGITAL & NUMERICAL RELAYS (E4B)

OBJECTIVE:

This course is designed to provide the trainee with basic understanding about digital and numerical relays.

WHO SHOULD ATTEND?

This course is recommended primarily for maintenance technicians and electrical engineers who supervise maintenance of different types of relays.

COURSE CONTENT:

- Microprocessor Relays
- Interfacing and Matching Input and Output ports
- Entering Protection Signals to Microprocessor
- Addressing Decoding
- Memory Map for Microprocessor System
- Hardware Configuration
- Software Configuration
- Microcontroller Relays
- Algorithm and Setting Calculation
- Numerical Relays Setting and Commissioning

Duration: 10 Days

Date:	Venue:	Cost:
Jan 19-30	Dammam	SR10,000
Jun 21-Jul 2	Dammam	SR10,000

DIGITAL TECHNIQUES IN POWER LINE (E57AE)

OBJECTIVE:

This course explains theoretical analysis and practical of the digital techniques in hardware, software and application in power line carrier.

WHO SHOULD ATTEND?

This course is designed for electrical engineers and experienced technicians who are involved with advanced protective relays which using power line carrier such as protection of EHV transmission lines, generator transformer, motors and electrical distribution systems.

COURSE CONTENT:

- General introduction
- Digital techniques
- Signal condition subsystem
- Data communication schemes used in control and protection levels
- Digital processing relay subsystem
- Unit protection of transmission lines
- Carrier unit protection scheme
- Practical carrier system contraphase p/o

Duration: 10 Days

Date:	Venue:	Cost:
Jan 12-16	Qatar	SR8,000
May 29-Jun 2	Jubail	SR7,000
Aug 30-Sep 3	Sharm El-Shaikh	SR8,000
Nov 22-26	Dubai	SR8,000