

ELECTRICAL COURSES

PROTECTIVE RELAYS, PRINCIPLES and APPLICATION (E11B)

OBJECTIVE:

This seminar provides the participants with the fundamentals of protective relays, protection systems for motors, power transformers, bus-bars, feeder; as well as testing and maintenance of protective relays.

WHO SHOULD ATTEND?

This course is recommended for electrical technicians and engineers with basic experience in this field who require detailed information on the use, maintenance, testing and calibration of protective relays.

COURSE CONTENT:

- Philosophy of Protective Relaying
- Fundamental Relay Operating Principles and Characteristics
- Current, Voltage, Directional and Differential Relays
- Current Transformers
- Voltage Transformers
- Motor Protection
- Transformer Protection
- Bus Protection
- Line Protection with Over Current Relays

PRACTICAL TASKS:

Test on Overcurrent Relay - and Under voltage Relay

- Pick-up test / Time current test
- Instantaneous test
- Demonstration of CT & PT polarity

Duration: 10 Days

Date:	Venue:	Cost:
Mar 8 – 19	Dammam	SR10,000
Aug 9 – 20	Dammam	SR10,000

REACTIVE POWER MANAGEMENT and POWER FACTOR CORRECTION (E68AE)

OBJECTIVE:

This seminar provides participants with knowledge in reactive power compensation, generally required for the more efficient operation of electrical power system and for the high quality of supply needs.

WHO SHOULD ATTEND?

Transmission and distribution electrical engineers are recommended to attend this course.

COURSE CONTENT:

- Reactive Power Compensation: Introductions
- Functional Requirements in AC Power Transmission
- Fundamental Theory of Power Factor Correction and Voltage Regulation for Distribution System
- Static Compensators
- Reactive Power Optimization
- Capacitor Control
- Switching Transients and Over-Voltages
- Power-Capacitor Standards
- Capacitor Testing
- Economic Consideration for Power Factor Correction in Transmission and Distribution Systems

Duration: 5 Days

Date:	Venue:	Cost:
Feb 23 – 27	Qatar	SR8,000
May 10 – 14	Jubail	SR7,000
Jul 12 – 16	Sharm El-Shaikh	SR8,000
Oct 11 – 15	Dubai	SR8,000