

ELECTRICAL COURSES

PROTECTIVE RELAYS (E16B)

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:

- Introduction to Protective Relays
- Electromagnetic Relays
- Introduction to Static Relays
- Overcurrent Protection and Earth Fault Protection
- Directional Overcurrent Relay and Reverse Power Relay
- Phase Balance Relay
- Differential and Distance Relays
- Transformer Protection
- Motor Protection
- Bus Zone and Feeder Protection
- Testing and Maintenance of Protective 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 28– Apr 8	Dammam	SR12,000
Jul 18 – 29	Jubail	SR13,000
Oct 10 – 21	Dammam	SR12,000

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:
Jan 3 – 14	Dammam	SR12,000
Apr 18– 29	Dammam	SR12,000
Sep 26 – Oct 8	Riyadh	SR13,000