

ELECTRICAL COURSES

PROTECTION FUNDAMENTALS (E27A)

OBJECTIVE:

This seminar is designed to provide the participants with the complete idea about protection fundamental in electrical power system including protection for Power transformer, Induction motor, Transmission line and Cables

WHO SHOULD ATTEND?

This course is recommended for beginner electrical engineers, supervisors, and technicians who need to get more details theoretical and practical about protection fundamental in electrical power system.

COURSE CONTENT:

- Introduction to protective relays
- Main factors to select protective relays .
- Classification of protective relays .
- Short circuit current calculation .
- Potential Transformer.
- Current Transformer.
- Power transformer protection.
- Induction motor protection.
- Transmission line protection.
- Cable protection .

PRACTICAL TASKS:

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Duration: 5 Days

Date:	Venue:	Cost:
Jan 5-9	Dammam	SR6,000
Jan 21-25	Dammam	SR6,000
Oct 25-29	Riyadh	SR7,000

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:
Apr 12 – 23	Dammam	SR10,000
Oct 18 – 29	Dammam	SR10,000