

ELECTRICAL COURSES

ADVANCED PROTECTIVE RELAYS (E69AE)

OBJECTIVE:

The course addresses the philosophy and technical tools of relay engineers. The different protective relaying schemes are introduced along with instrument transformers for relaying.

WHO SHOULD ATTEND?

All electrical engineers are invited to attend this course. Operation, Control and Planning Engineers are strongly recommended to attend this course.

COURSE CONTENT:

- Introduction and General Philosophies
- Technical Tools of the Relay Engineer: Phasors, Polarity, and Symmetrical Components.
- Protection Against Transients and Surges
- Microprocessor Relaying
- System Grounding and Protective Relaying
- Generator Protection
- Motor Protection
- Transformer and Reactor Protection
- Station-Bus Protection
- Load Shedding and Frequency Relaying

Duration: 5 Days

Date:	Venue:	Cost:
Jan 17 -21	Dammam	SR7,000
Aug 1 - 5	Dammam	SR7,000
Dec 19 -23	Riyadh	SR 8,000

ADVANCED PROTECTIVE RELAYS MAINTENANCE (E109E)

OBJECTIVE:

Upon completion of this course the participant should be able to read relays schematics, maintain, test, calibrate complex electromechanical relays and analyze test results.

WHO SHOULD ATTEND?

Engineers

COURSE CONTENT:

- Electromechanical Relays
- Standard Testing of Relays Using Latest Relay Test Sets
- Internal and External Relay Schematics
- Theory and Application of Complex Relays
- Relays Calibrations
- Relay Test Results Analysis
- Corrective Actions.

Duration: 5 Days

Date:	Venue:	Cost:
Mar 7-11	Dammam	SR7,000
Jul 4-8	Dammam	SR7,000
Dec 12-16	Jubail	SR 8,000