

ELECTRICAL COURSES

SHORT CIRCUIT ANALYSIS (E108A)

OBJECTIVE:

This course presents short circuit conditions regarding power system. Design of power system not only supply a given load current but also establishment must be able to withstand and/or interrupt.

WHO SHOULD ATTEND?

This course is recommended to electrical engineers and technicians to enhance their knowledge regarding short circuit analysis.

COURSE CONTENT:

- Introduction
- Symmetrical Components for Unbalanced Short Circuit Current
- Short Circuit Fault Analysis
- Types of Faults and Short Circuit Characteristics
- Calculating Short Circuit Currents
- Examples of Unbalanced Fault Current Calculations

Duration: 5 Days

| Date: | Venue: | Cost: |
|-----------|--------|----------|
| Jan 24-28 | Dammam | SR7,000 |
| May 16-20 | Riyadh | SR 8,000 |
| Dec 12-16 | Dammam | SR7,000 |

SMART PROTECTION, MEASURING AND CONTROL DEVICES (E101AE)

OBJECTIVE:

This course is designed to provide the participants with knowledge, experience and good skills in the advanced protective relaying field (digital relays).

WHO SHOULD ATTEND?

This course is designed for electrical engineers and experienced technicians who are involved with protection fields such as protection of generators, transformers, motors, electrical distribution and transmission systems.

COURSE CONTENT:

- General introduction
- Microprocessor and interfacing programmable devices
- Protection devices
- Signal condition sub system
- Digital processing relay sub system
- Data communication schemes
- Digital protection techniques
- Case study
- Measuring and control devices
- Testing and commissioning

Duration: 5 Days

| Date: | Venue: | Cost: |
|-----------|--------|----------|
| Mar 14-18 | Dammam | SR7,000 |
| Aug 9-13 | Cairo | SR 9,000 |
| Nov 21-25 | Dammam | SR7,000 |