

ELECTRICAL COURSES

GENERATOR PROTECTION (E30A)

OBJECTIVE:

This course is designed to provide the attendees with the theoretical and practical details about generator protection including, fault types, relays functions and generator tripping modes.

WHO SHOULD ATTEND?

This course is recommended for electrical technicians and engineers who have basic experience in the protection field and need more details about the generator protection.

COURSE CONTENT:

- Description of Generators, and Generator Grounding.
- Generator Thermal Protection.
- Generator Stator Protection, Namely Differential, Third Harmonic, and Earth Fault.
- Generator Rotor Field Protection.
- Generator Protection Against Abnormal Operating Conditions Namely Loss of Excitation, Negative Sequence Current, Loss of Synchronism, Over Excitation, Reverse Power, and Under Frequency Protection.
- Generator Backup Protection Namely, Distance and Over Current Protection.
- Generator Tripping Modes.

PRACTICAL TASKS:

- Testing of any relay from above.

Duration: 5 Days

| Date: | Venue: | Cost: |
|--------------------|---------------|----------------|
| Jan 26 – 30 | Dammam | SR6,000 |
| Jul 12 - 16 | Dammam | SR6,000 |
| Oct 18 – 22 | Abha | SR7,000 |

GROUNDING SYSTEM (E20A)

OBJECTIVE:

This seminar provides attendees with a practical understanding of equipment grounding, bonding, types of grounding systems, ground fault detections, and connection to earth.

WHO SHOULD ATTEND?

This course is intended for electrical maintenance personnel, foremen and supervisors who are responsible for maintaining the integrity of the grounding system.

COURSE CONTENT:

- Systems Grounding
- Equipment Grounding
- Static and Lightning Protection Grounding
- Connection to Earth
- Sensitive Electronic Grounding
- NEC Grounding Requirements

Duration: 5 Days

| Date: | Venue: | Cost: |
|--------------------|---------------|----------------|
| May 3 – 7 | Dammam | SR6,000 |
| Nov 8 – 12 | Dammam | SR6,000 |
| Nov 15 – 19 | Riyadh | SR7,000 |