

ELECTRICAL COURSES

HIGH VOLTAGE BUS BAR PROTECTION (E35A)

OBJECTIVE:

This course is designed to provide the participants with detailed information about the various types of busbar protection theory, applications and practical considerations.

WHO SHOULD ATTEND?

This course is recommended for electrical technicians and engineers who work in the protection field and have basic experience in this field and who need to gain experience about the busbar protection.

COURSE CONTENT:

- Types and Effects of Busbar Faults.
- Current Transformers Considerations, Locations and Calculations.
- Busbar Protection Requirements.
- Common Busbar Arrangements.
- Frame Earth Protection.
- Busbar Differential Protection.
- High Impedance Busbar Differential Relays.
- Low Impedance Busbar Differential Relays.
- Breaker Fail Protection.
- Testing of Busbar Protection

Duration: 5 Days

Date:	Venue:	Cost:
Jan 10-15	Dammam	SR7,000
Apr 18-22	Dammam	SR7,000
Sep 26-30	Dammam	SR7,000

HIGH VOLTAGE BUS BAR PROTECTION AND BREAKER FAILURE (E90A)

OBJECTIVE:

This seminar is designed to provide the participants with detailed information about the busbar protection, repair and testing

WHO SHOULD ATTEND?

This program is recommended for electrical technicians and engineers who are working in the field of busbar protection.

COURSE CONTENT:

- History of the Development of Busbar Protection
- Unit System of Busbar Protection for Transmissions Substations
- Basic Principles of High-Impedance Circulating Current Protection
- Factors Affecting the Position of C.T.S. in Busbars
- Busbar Selector Auxiliary Switches
- Circuit Breaker Fail Protection
- Methods of Repair B.B.P. Modules and Tests

Duration: 5 Days

Date:	Venue:	Cost:
Feb 14 – 18	Dammam	SR7,000
May 2 – 6	Riyadh	SR 8,000
Oct 3- 7	Dammam	SR7,000