

ELECTRICAL COURSES

MOTOR TESTING & MAINTENANCE (E3A)

OBJECTIVE:

This seminar provides attendees with a practical understanding of the functions of AC motors, multi speed motors, DC and universal motors; maintenance procedures for AC and DC Motors.

WHO SHOULD ATTEND?

This course is intended for experienced technicians, maintenance supervisors, and engineers with basic experience in this field.

COURSE CONTENT:

- Alternating-Current Motors
- DC Machines and Regulated Drives
- Commutator Care and Maintenance
- Preventive and Predictive Maintenance
- Methods of Motor Troubleshooting and How it is Used.

PRACTICAL TASKS:

- Megger test
- Winding resistance test
- Current balanced
- Polarity test
- Voltage drop test for DC motor
- Bar to bar test
- Check the control circuit for motors using electrical control simulator.

Duration: 5 Days

Date:	Venue:	Cost:
Mar 14-18	Dammam	SR7,000
Jun 27- Jul 1	Abha	SR 8,000
Oct 3-7	Dammam	SR7,000

MOTOR PROTECTION (E34A)

OBJECTIVE:

This course is designed to provide the attendees with theoretical and practical details about the protection of A.C motor (induction and synchronous) including, i fault types, abnormal operation, and mechanical failure.

WHO SHOULD ATTEND?

This course is recommended for electrical technicians and engineers who work in the protection or maintenance field and need more details about motor protection.

COURSE CONTENT:

- Introduction.
- Types of A.C. Motors
- A.C and D.C. Control Circuits.
- Protection Against Installing of Induction Motors.
- Protection Against Out of Step of Synchronous Motors.
- Stator Over Temperature Protection.
- Phase Over Current Protection.
- Negative Sequence Protection.
- Ground Fault Protection.
- Differential Protection.
- Under Voltage Effect and Protection.
- Rotor Protection

PRACTICAL TASKS:

- Testing of any relay available of the above.

Duration: 5 Days

Date:	Venue:	Cost:
Jan 17 – 21	Jubail	SR8,000
Apr 25 – 29	Dammam	SR7,000
Jul 25 – 29	Riyadh	SR 8,000
Nov 28 – Dec 2	Dammam	SR7,000