

ELECTRICAL COURSES

ELECTROTECHNOLOGY (E42A)

OBJECTIVE:

This seminar concentrates on informing engineers of the principles on which electrical plant operates. It is essentially non-mathematical apart from the use of the basic laws of electromagnetics and considers both rotating and static plant. It is a course on which the focus is firmly placed on “How it Works” as opposed to how the machine operates in service, its maintenance requirements and its interface with networks.

WHO SHOULD ATTEND?

This course is recommended for graduate engineers or personnel with equivalent work experience in electrical power systems.

COURSE CONTENT:

- Magnetism and Induction
- Magnetic Circuits and Materials
- Electromechanical Transducers
- Rotating Machine Concepts
- Transformers
- Synchronous Machines
- Induction Machines
- DC Machines

Duration: 5 Days

Date:	Venue:	Cost:
Apr 5-9	Dammam	SR6,000
Aug 9-13	Abha	SR7,000
Oct 25-29	Dammam	SR6,000

ELECTRIC ARC FURNACE in FACTORY STEEL, OPERATION, MAINTENANCE and TROUBLESHOOTING (E95AE)

OBJECTIVE:

This course is designed to provide the attendees with a full understanding about the theoretical and practical details about furnaces in a steel factory including remedy, and procedures for troubleshooting.

WHO SHOULD ATTEND?

This course is recommended for electrical engineers and supervisors who have basic experience in the furnace field and need more details about furnaces troubleshooting.

COURSE CONTENT:

- Introduction-Operational Features
- Description of the Process
- Charging
- Charging Materials
- Refining
- Refining Process
- Tapping the Furnace
- Repairing the Furnace
- Melting Process and Troubleshooting
- Major Steel Groups
- Metallurgy of Electric Arc Furnace Steelmaking
- Desulphurization & Degassing
- Slag and Additives
- Alloy and their Uses
- Decarburization
- Accident Type
- Furnace Shutdown
- Computer and Alarms

PRACTICAL TASK:

- Industrial Furnace Troubleshooting Interactive CD