

# ELECTRICAL COURSES

## BASIC ELECTRICITY (E24A)

**OBJECTIVE:**

This seminar is designed to provide the participants with basic understanding about electricity.

**WHO SHOULD ATTEND?**

This course is recommended primarily for beginner and maintenance technicians.

**COURSE CONTENT:**

- Principle of Electricity
- What is Electric Circuit?
- Direct Current
- Ohm's Law
- Series Circuit
- Parallel Circuits
- Power in Series Circuits
- Alternating Current
- AC Voltage and Current Characteristics
- The Motor
- Ammeters and Voltmeters
- Charging a Battery
- Basic Principles of Automatic Control Circuits
- The Three Phase Wye and Delta Connection
- Basic Principles of Transformers
- Instrument Transformer
- Hazards of Electricity
- Protective Equipment
- Operating Power Systems Safely
- Lightning Hazards

**Practical Tasks:**

- Familiarize the attendees with different types of test equipment
- Perform some basic circuits on the electrical module.

**Duration: 5 Days**

Date:	Venue:	Cost:
May 31 – Jun 4	Dammam	SR6,000
Nov 8 – 12	Abha	SR7,000
Dec 6 - 10	Dammam	SR6,000

## BASIC POWER SYSTEM GENERATION (E85AE)

**OBJECTIVE:**

This seminar is designed to provide the participants with the basic understanding about power system generation, distribution and emergency power generation.

**WHO SHOULD ATTEND?**

This course is targeted primarily at beginner engineers, supervisors and maintenance technicians.

**COURSE CONTENT:**

- Main Components of Generation Unit
- Excitation System and Synchronization
- Modes of Operation in Distribution System
- Testing, Maintenance and Troubleshooting in Electrical Power Testing
- Control Circuits and Protections

**Practical Tasks:**

- DVD's
- Visit the Electrical Workshop for Checking the Generation Components
- Perform some Tests on the Electrical Protective Relay in Laboratory.

**Duration: 5 Days**

Date:	Venue:	Cost:
Mar 22 – 26	Dubai	SR8,000
May 10 – 14	Qatar	SR8,000
Jun 28 – Jul 2	Sharm El-Shaikh	SR8,000
Nov 29 – Dec 3	Jubail	SR7,000