

# ELECTRICAL COURSES

## 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 21 – 25	Dammam	SR 7,000
Jul 18 – 22	Jubail	SR 8,000
Oct 10 – 14	Dammam	SR 7,000
Dec 19 - 23	Cairo	SR 9,000

## BATTERIES MAINTENANCE, CHARGER, AND BATTERIES CAR (E120A)

**OBJECTIVE:**

This seminar is designed to provide the participants theoretical information and practical details relating to batteries maintenance, charger, and batteries car maintenance and inspection.

**WHO SHOULD ATTEND?**

This course is recommended for engineers with basic experience with this field and electrical technicians that need to upgrade their level of information regarding this subject.

**COURSE CONTENT:**

- Introduction
- Purposes of Storage Battery System, Parts of a Lead-Acid Battery and NICAD Battery, Safety Equipment Needed when Handling Batteries, Precautions During Inspection or Maintenance of Lead-Acid Batteries, Batteries Voltage and Current, Level Specific Gravity, Inspection Points of NICAD Batteries, Check NICAD Batteries Level Specific Gravity.
- Types Battery Chargers Circuits of Three Phase Rectifiers Charger Inspection and Adjustment Procedures, Meter Calibration Procedures for Battery Chargers, Cleaning Procedures for a Battery Charger, Circuit Diagram for Battery Chargers
- Batteries Car

**Practical Tasks:**

- Perform Inspection of a Battery Measure the Specific Gravity of Lead-Acid Batteries

**Duration: 5 Days**

Date:	Venue:	Cost:
Mar 7-11	Dammam	SR 7,000
Jun 25 – 29	Abha	SR 8,000
Sept 26-30	Dammam	SR 7,000