

# ELECTRICAL COURSES

## ADVANCED ELECTRICAL POWER SYSTEMS VOLTAGE and DYNAMIC SECURITY IN POWER SYSTEM OPERATION (E66AE)

**OBJECTIVE:**

It is the intention of this course to discuss in some detail both types of power system stability. In the course, the concepts of various types of stabilities are introduced.

**WHO SHOULD ATTEND?**

All electrical engineers are invited to attend this course. Operation, control, and planning engineers are strongly recommended to attend this course.

**COURSE CONTENT:**

- Sources of Disturbances in Power Systems
- Characteristics of Distribution Network Voltage
- Synchronous Stability
- Voltage/Power Relations of Two Nodes Systems
- Criteria for Detection of Steady State Voltage Instability
- FACTS and HVDC System Operation and Control
- Load Representation Effects on Voltage Stability Evaluation
- Blackouts Preventive Measures
- Harmonics Suppression for Power Quality and Voltage Stability.

**Duration: 5 Days**

Date:	Venue:	Cost:
Feb 9 – 13	Qatar	SR8,000
Apr 26 – 30	Jubail	SR7,000
Jun 28 – Jul 02	Sharm El-Shaikh	SR8,000
Oct 25 – 29	Dubai	SR8,000

## ADVANCED HV and EHV SWITCHGEAR (E39A)

**OBJECTIVE:**

This seminar provides attendees with a full understanding about HV & EHV Switchgear and Gas Insulated Systems.

**WHO SHOULD ATTEND?**

This course is intended for engineers and supervisors who have experience in this field.

**COURSE CONTENT:**

- Fault Level Calculations
- Transient System Models for Switching Transients
- Modern Vacuum Distribution Switchgear
- Modern SF<sub>6</sub> Distribution Switchgear
- Earthing Requirements
- Switching Requirements
- Gas Insulated Switchgear EHV I
- Gas Insulated Switchgear EHV II

**Duration: 5 Days**

Date:	Venue:	Cost:
Mar 15 – 19	Dammam	SR6,000
Aug 16 – 20	Riyadh	SR7,000
Aug 23 – 27	Dammam	SR6,000