

ELECTRICAL COURSES

POWER FLOW ANALYSIS (E103AE)

OBJECTIVE:

The course is designed to provide the participants with understanding of the theory of load flow studies, power system elements, complex interconnected network and power flow analysis.

WHO SHOULD ATTEND?

Consultant engineers, field engineers, application engineers, design engineers, supervisors and electrical engineers from generation, transmission and distribution systems.

COURSE CONTENT:

- Characteristics influencing generation and transmission
- Nature of transmission and distribution systems
- Forecasting T&D load
- Overview of economic operation functions
- Characteristics of power generating unit
- Formulation of the economic dispatch problems
- Power flow studies
- Unit commitment
- Optimal preventive and corrective actions
- Fault analysis
- Disturbances in power system
- Electricity deregulation
- Harmonics in power systems

Duration: 5 Days

Date:	Venue:	Cost:
Feb 14- 18	Dammam	SR7,000
May 23-27	Riyadh	SR 8,000
Aug 1-5	Dammam	SR7,000
Dec 19-23	Abha	SR7,000

POWER SYSTEMS HARMONICS (E71AE)

OBJECTIVE:

This course is designed to provide the participants with full theoretical and practical details about power system harmonics, concepts, causes, and solutions.

WHO SHOULD ATTEND?

This course is offered for anyone who has an interest in the latest topics of harmonics. This course is targeted towards utility personnel and technical staff who want a better understanding of power system harmonics.

COURSE CONTENT:

- Fundamental of Power System Harmonics
- Effects of Harmonics and Harmonic Surfaces
- Problems Associated with Power System Harmonics
- Modeling and Simulation of Harmonic Propagation in Power Systems
- Various Issues and Concern on Power Quality
- Mitigation of Harmonic Distortion and Problems
- Harmonic Measurements
- Case Studies

Duration: 5 Days

Date:	Venue:	Cost:
Jan 17-21	Dammam	SR7,000
May 30- Jun 3	Dammam	SR7,000
Nov 21-25	Dammam	SR7,000