

# ELECTRICAL COURSES

## SOLUTIONS FOR UP-TO-DATE POWER QUALITY PROBLEMS (E77AE)

**OBJECTIVE:**

This course is designed to provide knowledge for participants to be able to deal with indices characterizing power quality. To deal with interaction between power quality and consumers, to deal with some parts of standards, which are important from the point of view of this subject, which are related to power quality. A discussion on the comparison of the effect of standard-conforming equipment on power quality between the traditionally designed supply copper conductor and of a design which takes into account the new customer characteristics and to summarize the most important issues of the proposed new design practice.

**WHO SHOULD ATTEND?**

This course is directed toward electric utility customer account managers and technical staff, along with industrial plant engineers. All technical personnel who have a stake in the utility end-user interface would find this course beneficial.

**COURSE CONTENT:**

- Characteristics Indices of Power Quality
- Standard Recommendation
- Problems Caused by the Use of Standard-Conform Equipment
- The Most Important Considerations of the New Design Practice

**Duration: 5 Days**

Date:	Venue:	Cost:
Feb 7 – 11	Riyadh	SR 8,000
Jul 11 – 15	Dammam	SR7,000
Dec 19 – 23	Dammam	SR7,000

## TOTAL MOTOR PROTECTION (E40A)

**OBJECTIVE:**

The course is aimed to help students get the most capability from their Motors with minimum risk of Motor failure. Equipment covered will include AC Motors ranging from 1 horsepower up to 10,000 horsepower. The different methods of protection based on the size of motor will be detailed.

**WHO SHOULD ATTEND?**

This course is intended for engineers, supervisors, foreman and technicians.

**COURSE CONTENT:**

- AC Motor Protection: Introductory Remarks
- Operation of Induction and Synchronous Machines
- Induction Motor Protection
- An Investigation into Motor Faults Whilst in Service and the Consequent Effect on Motor Life
- Current Practices in Motor Condition Monitoring

**Duration: 5 Days**

Date:	Venue:	Cost:
Jan 31-Feb 4	Dammam	SR7,000
Jun 13-17	Jubail	SR 8,000
Oct 31-Nov 4	Dammam	SR7,000