

ELECTRICAL COURSES

POWER FACTOR CORRECTION (E49AE)

OBJECTIVE:

This course is designed to provide the participants with the basics of practical understanding and knowledge on the methods of improving power factor and load control.

WHO SHOULD ATTEND?

This course is recommended for electrical engineers with basic experience of generation, transmission or distribution systems and who need to get advanced knowledge in selection, maintenance, inspection and testing of capacitor bank for improving power factor

COURSE CONTENT:

- Power Factor Mathematics
- How Capacitor Improve Power Factor
- Methods of Improving Power Factor
- Power Compensation in Transmission System
- Type of Reactive Power Compensation and protection
- Special Capacitor Applications
- Power Factor Capacitor Rating and Tests
- Capacitor Application on Distribution Lines
- Periodic Inspection, Measurement and Maintenance of capacitor banks
- Measuring the Power Factor
- Energization of Back to Back Capacitor Banks and De-Energization
- Power Factor Harmonics Interactions

PRACTICAL TASKS:

- Improving power factors with various capacitor ratings

Duration: 5 Days

Date:	Venue:	Cost:
Feb 7 – 11	Dammam	SR7,000
Jun 20– 24	Dammam	SR7,000
Dec 12 – 16	Dammam	SR7,000

POWER FACTOR TESTING (E63A)

OBJECTIVE:

This seminar is designed to provide full information on power factor testing.

WHO SHOULD ATTEND?

This course is recommended for Electrical Engineers, Supervisors and Technicians who work in Sub Stations, Factories, Power Plants and who are involved with power utility factor testing.

COURSE CONTENT:

- Revision of Basic Principles
- Linear Loads and their Effects on Power Factor
- Sources of Harmonics in Electric Utility
- Effects of Harmonics on Power Factor
- Impact of Low Power Factor on Electric Utility
- The Penalty Consumer is Obligated to Pay for Low Power Factor
- Methods of Power Factor Testing and Improvement

Duration: 5 Days

Date:	Venue:	Cost:
Jan 3 – 7	Dammam	SR7,000
Apr 26-30	Qatar	SR 9,000
Jul 18 – 22	Dammam	SR7,000
Oct 24 – 28	Riyadh	SR 9,000