

ELECTRICAL COURSES

POWER-FACTOR CORRECTION and VOLTAGE REGULATION USING STATIC-VAR COMPENSATORS (E99AE)

OBJECTIVE:

This course is concerned with the theory, design and practical application of static Volt-Ampere-Reactive (VAR) compensators for industrial loads.

WHO SHOULD ATTEND?

This course is intended for junior & senior electrical engineers of power factor correction and voltage regulation using static-var compensators

COURSE CONTENT:

- Principal Symbols
- Introduction
- The Theory of Load Compensation
- Objectives in Load Compensation
- Principles of Static Compensators
- Implementation of Practical Power Factor Correction using SVC System
- Phase Shift Sensor Design
- SVC Practical Testing
- Practical Application of Static VAR Compensator in Industry.

Duration: 5 Days

Date:	Venue:	Cost:
Apr 18 – 22	Abha	SR 8,000
Aug 15 – 19	Dammam	SR7,000
Nov 28 – Dec 2	Dammam	SR7,000

POWER SYSTEM GROUNDING (E18AE)

OBJECTIVE:

This seminar provides attendees with a practical understanding of equipment grounding, bonding and ground fault detection.

WHO SHOULD ATTEND?

This course is intended for electrical engineers and supervisors who are responsible for maintaining the integrity of the ground system.

COURSE CONTENT:

- Introduction
- Power System Fundamentals for Earthing
- Power Plant Characteristics and Parameters
- Analysis of Balanced Faults
- High Current Faults (Video Presentation)
- Protection and Earthing
- Unbalanced Fault Calculation
- Sequence Networks for Unbalanced Fault Analysis
- Fault Limiting through Star Point Impedance
- Three Phase Transformers for Fault Limiting
- Earthing System Design Fundamentals
- Low Voltage Systems and Building Regulations
- Earthing Methods
- Earthing of MV and LV Systems
- Earth Bonding Requirements
- Regulations for Earthing
- Earth Conductors
- Earthing Installation Methods
- Performance of Earthing Electrodes
- Design of Earth Electrode System