



A Siemens Company

ISCOSA Training Center

MODERN POWER SYSTEM PROTECTION APPLICATIONS AND PERFORMANCE ANALYSIS – E258A (5 Days)

OBJECTIVE:

This seminar is designed to provide the trainee with theoretical and practical understanding about testing, setting and calibration digital and smart modern relay.

WHO SHOULD ATTEND?

This course is recommended primarily for maintenance technicians and electrical protection engineers who supervise maintenance and testing of modern system protection relays.

Day 1

- Introduction to the Course
- Relaying Fundamentals
- Transducers
- Transient Phenomena
- Interpreting Oscillograms I
- Non-Pilot Line Protection of Transmission Lines I

Day 2

- Non-Pilot Line Protection of Transmission Lines II
- Response of Distance Relays
- Fault Location
- Pilot Line Protection of Transmission Lines
- Transformer Protection

Day 3

- Transmission Station Design
- Bus, Capacitor, and Reactor Protection
- Rotating Machinery Protection
- Power System Protection:

Day 4

- Interpreting Oscillograms II
- Introduction to Computer Relaying
- Adaptive Protection Principles
- Distribution System Protection
- Operating Problems Affecting Human Safety

Day 5

- Field Experiences
- Phasor Estimating
- Blackouts: Causes and Countermeasures
- Final Adjournment

ISCOSA Industries and Maintenance, Ltd.

A Siemens Company – ISO 9001 certified

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Duration: 5 Days

Date:	Venue:	Cost:
Sep 17-21, 2011	Dammam	SR7,000

Required min class size: 4 participants