

**Training Title**

**POWER SYSTEM PROTECTIVE RELAYING**

**Training Duration**

5 days

**Training Venue and Dates**

REF EEO43	Power System Protective Relaying	5	01-05 April	\$4,250	Dubai, UAE
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In any of the 5 star hotel. Exact venue will be informed later.

**Training Fees**

- 4,250 US\$ for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

**Training Certificate**

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

Language: English

**WHO SHOULD ATTEND**

Electrical Engineers and technicians with responsibility for the operation, testing and maintenance of Power Generation, Distribution and Utilization Systems will be benefit largely from the workshop. R&D personnel and Power System Design Engineers are also recommended to attend the course.

**COURSE DESCRIPTION:-**

Protective Relaying of Electrical Equipments in power plants and other petro-chemical industries has always been a challenge to Electrical System Engineers. Reliability, Precision and speedy operation of Relays have the focus for minimizing the economic impact of isolation of faulty equipments.

Understanding the function of Relays and their settings will have an important reflections on the systems, plant and equipment stability which will add value to the whole activity.

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Different application needs to employ the appropriate relays of specific type and functions for ensuring the reliability of system operation through pragmatic controls. Considerable attention must be given to the relay co-ordination which also exhibits the security of the systems and the processes.

Understanding the vital issues and problems associated with the relays is necessary and essential for the diagnosis, trouble shooting and achieving minimum maintenance needs for proper Protection Management of the entire Power System.

**TRAINING OBJECTIVES :-**

- To introduce the participants with protection philosophy for HT Motors, Generators, Feeders, Transformers, Bus bars & Switchyards.

- To familiarize the participants with different types of relays their applications, testing and maintenance.
- To upgrade the participants - understanding on the role of CT & PT in protective relaying.
- To provide skills, knowledge and understanding of the principle and practice of commissioning, testing and management of microprocessor based Digital / Numerical relays.
- To learn the method of fault level calculations and setting of relays.
- To learn the technology of Relay - Co - ordination.
- To provide the exposure in modern trends in Design and Management of Advanced Power System Protections.

**TRAINING METHODOLOGY:**

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

**COURSE OUTLINE:-**

- THEORY OF PROTECTIONS
- CT & PT FOR PROTECTIVE RELAYING
- METHODS OF DISCRIMINATION
- FAULT LEVEL CALCULATIONS
- TESTING OF RELAYS
- SETTING OF RELAYS
- FUSES
- HT MOTOR PROTECTIONS
- GENERATOR PROTECTIONS
- FEEDER PROTECTION
- TRANSFORMER PROTECTIONS
- BUSBAR PROTECTIONS
- SWITCHYARD PROTECTIONS
- PERFORMANCE OF RELAYS
- RELAY CO-ORDINATION
- OPERATION & MAINTENANCE OF MICROPROCESSOR BASED PROTECTIONS
- OPERATION & MANAGEMENT OF DIGITAL RELAYS

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- MODERN TREND IN DESIGN & MANGEMENT OF POWER SYSTEM PROTECTIONS
- Case Studies, Discussions, Last Day Review & Assessments will be carried out.

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