



## Electrical Protection System

Date	Venues	(\$)Fees	Book your seat
22 Dec -26 Dec 2024	Cairo	2900	<a href="#">Register Now</a>

### Course Overview:

- The continuity of Electrical Protection System is very important to the consumers specially, for industrial sector where the curtail of electrical power supply is costly.
- It is important to take the necessary action to prevent the faults, and If they do occur, to minimize possible damage or possible power disruption. A protection system continuously monitors the power system to ensure maximum of electrical supply with minimum damage to life, equipment and property.
- Many utilities need this practical course that studies the Relay characteristics during faults, and weak protection points in electrical systems these studies will be elaborated by practical case studies.

### Course Objective:

- Knowing the fault reasons in electrical networks and its effect on the electrical quantities.
- Reviewing the Grounding System of generation, Transmission and Distribution Networks and how it affects the electrical quantities, short circuit level and protection system.
- Understanding main concepts of protection equipment and its necessity in electrical System.
- How to make relay coordination for main and back-up protection relays on Ike network.
- How to protect the power system due to up normal operational conditions.

### Who Should Attend?

- This course is intended for Electrical Engineers & Supervisors, who work in operation, maintenance, protection, control and analysis of Utilities & Industries Electrical Networks.

### Course Outline:

- INTRODUCTION TO ELECTRICAL PROTECTION SYSTEM
- POWER SYSTEM RELAYING (PSR)
- FUSES
- MEASURING TRANSFORMERS (VTS & CTS)
- PROTECTIVE RELAYS
- RELAY COORDINATION
- DIFFERENTIAL RELAYS (D.R.)
- IMPEDANCE RELAYS
- Under Frequency Protection (U/F.P.)
- Over Voltage protection (O/V.P.)
- Applications & Case Studies

### Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities

- Case Studies
- Workshops
- Simulation



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