



Electrical protection for power

Date	Venues	(\$Fees	Book your seat
09 Mar -13 Mar 2025	Cairo	2900	Register Now

Course Overview:

- The continuity of Electrical Power Supply 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.

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 lke network.
- How to find the cause of relay operation and verify if it is correct, falls or mal operation
- 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 Power System Relaying (PSR)
- Overview:
- 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
- Motor Protection
- Synchronous & asynchronous Motors
- Substation Protection
- Transmission lines Protection
- Distribution Protection

Training Methodology:

- Presentation & Slides
- Audio Visual Aids

- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation



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