



## Electrical protection for Transmission line

Date	Venues	(\$)Fees	Book your seat
03 Mar -07 Mar 2024	Cairo	2900	<a href="#">Register Now</a>

### Course Overview:

- The continuity of Electrical protection for Transmission line 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 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 recommended for electrical technicians and engineers who work in the protection field and have basic experience in this field.

### Course Outline:

- . INTRODUCTION.
- . DISTANCE PROTECTION PRINCIPLES.
- . REACH AND ZONES OF OPERATION.
- . DISTANCE RELAYS CHARACTERISTICS AND THEIR APPLICATIONS.
- . DISTANCE PROTECTION SCHEMES AND THEIR APPLICATION.
- . POWER SWING BLOCKING.
- . DIRECTION OVER CURRENT PROTECTION.
- . DIRECTION EARTH FAULT PROTECTION.

### Training Methodology:

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

- Simulation



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