



Electrical protection for Transmission line

Date	Venues	(\$)Fees	Book your seat
15 Dec -19 Dec 2024	Cairo	2900	Register Now

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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