

Course Overview:

The continuity of Electrical Power Supply is very important to the consumers specially, for industrial sector where curtail of electrical power supply is costly. It is important to take necessary action to prevent 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

Course Outline:

- Introduction To Power System Relaying (PSR)
- Power System Components
- Technical Tools Of Relay Engineer Symmetrical Components
- Basic Relay Units
- Protection Against Transients And Surges
- Instrument Transformers For Relaying
- Microprocessor Relaying Fundamentals
- Generator Protection
- Motor Protection

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.

Training Language:

EN / AR

Training Methodology:

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