Smart Protection

Date	Venues	($)Fees	Book your seat
07 Dec -11 Dec 2025	Istanbul	3300	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 smart 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 smart 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 POWER SYSTEM PROTECTION**
- **IMPORTANCE OF SMART PROTECTION**
- **POWER SYSTEM COMPONENTS**
- **MEASURING TRANSFORMERS (VTS & CTS)**
- **PROTECTIVE RELAYS**
- **RELAY COORDINATION**
- **DIFFERENTIAL RELAYS**
- **IMPEDANCE RELAYS**
- **UNDER FREQUENCY PROTECTION (U/F.P.)**
- **OVER VOLTAGE PROTECTION (0/V.P.)**

Training Methodology

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

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