



Power System Protection

Entry Requirement

Candidate should have basic electrical fundamentals knowledge having BE-BSC Electrical Engineering degree

Description

This training course is strongly recommended for the engineering intends to work as lead design engineer, substation engineer, power system engineer, industrial engineer.

Course contents

- Introduction To The Protection System
- Why Do We Need To Protect Our Power System
- Different Causes Of The Electrical Faults In The Power Network.
- What Are Effects Of Faults On Power System
- Behavior Of Power Systems Under Fault Conditions
- Protection System Components
- Protection Relays Introduction
- Mains And Back Up Protection
- Security And Dependability
- Selectivity
- Different Types Of Circuit Breakers.
- Fault Clearing Time.
- Break Failure Protection Device
- Protection System Priority.
- Directional Protection System.
- Different Properties Of The Protection System.
- Electromagnetic Relays.
- Static Relays.
- Digital Relays.
- Multifunction Relays.
- Network Topologies
- Overcurrent Protection
- Earth Fault Protection
- Unbalance Protection
- Reverse Power Protection
- Directional Over Current Relay
- Under Current Protection
- Under And Over Frequency Protection
- Under And Over Voltage Protection
- Differential Protection
- Feeder Protection
- Transformer Protection
- Genset Protection
- Lv-Mv-Hv Protection System
- 415-11kv, 132kv, 220kv, 500kv Protection
- Single Busbar, Double Busbar, Mesh, Radial, One And Half Breaker Protection System
- Why Protection Coordination Is Necessary
- Retrieving Fault Records From Protection Relays
- Analyzing Fault Records.
- Protection Coordination
- Illustrate The Definite Time/Definite Current Overcurrent Relay.
- Overcurrent Relay Settings.
- Coordination Study Between The Protections Systems In The Power Network.
- Coordination Between The Different Circuit Breakers In The Power Network.
- Idmt-Dmt
- Iec-Ieee-Ansi Curves
- Case Study
- Project Examples
- Plant Network Scheme And Protection

Benefits

- Training by Mr. Sajid Munir. He has rich hands-on experience in electrical projects in the areas of substation, industry, commercial, solar PV, Relay testing, project management, technical trainings.
- Trainings flexible face to face or online.
- Real time field base demo and exercise.

Course duration

1 week

8:00pm to 10:00pm

