

Course Overview:

in this Faults Analysis System training course we teaches electrical troubleshooting and is concerned with the calculation of fault currents in electrical power systems. Short-circuit currents are associated with large amounts of very destructive energy and therefore calculations must be made to ensure that the short-circuit ratings of equipment are adequate to cater for these high currents.

Course Objective:

- Identification of causes of electrical faults
- Understanding three phase short circuit currents
- Partial discharge phenomena and how to apply the required analysis
- Representation of unsymmetrical faults in a power system

Course Outline:

- Electrical Network
- Introduction to Fault Analysis
- Three-Phase Short Circuit Current
- Power System Faults
- Power Generation Plants And Fault Analysis
- Grounding system
- Substation Main Faults
- Protection System
- Improving Electrical Network Efficiency & Performance

Who Should Attend:

- Electricians
- Electrical supervisors
- Plant electricians
- Operations & maintenance technicians

Training Language:

Eng/ Ar

Training Methodology:

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