Course description

Protection Coordination & Arc Flash Hazard Analysis

Course goal
The goal of the course is to familiarize the relays coordination and arc flash hazard phenomena to power system engineers.

Learning objectives
Upon completion of this course, participants will be able to:
- Understand the concept of Power System protections & grading studies
- Understand arc flash hazard concept & analysis

Participant profile
Personnel from Power Utilities, Power Generation, transmission companies & industries and Consultants responsible for system design, planning and engineering of power system.

Prerequisites
Degree or diploma in engineering, basic knowledge of power system, Protection & Substation Automation and PC operations

Topics
- Power System protection- Principles
- Relay Co-ordination and grading between overcurrent and protection devices
- Directional overcurrent relays
- Unit Protection
- Primary & backup relays and their grading
- Arc flash hazard concepts
- Arc flash hazard analysis
- Power system study tools
- IEEE 242, NFPA standards
- Case studies

Course type and methods
This is an instructor led seminar. Lectures, demonstrations, design, application and calculation exercises. The language of the course is English.

Duration
The duration is 2-3 days.