Course description

PXXX

Over Voltages & Insulation Coordination

Course goal

The goal of the course is to familiarize the insulation coordination concepts and surge arrester selection to power engineers.

Learning objectives

Upon completion of this course, participants will be able to:

- Understand the transient overvoltage's in power systems
- Understand the Switching & lightning transients

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

Topics

- Transient over voltages in power systems
- Introduction to Insulation Coordination
- Temporary overvoltage's
- Switching overvoltage's- switching of Transmission line, cables, capacitors, reactors,
- Breaker TRV, RRRV
- Lightning over voltage's- Direct Lightning stroke & Back flash-over
- AIS/GIS substation modelling for Insulation coordination
- IEC 60071, IEEE standards
- Surge Arresters selection
- 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.

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