






Protection system principles and applications



 3 days

 English

 Cprs51en

Get to know to protection principles in medium and high voltage systems. Become familiar with main relay settings and fundamental protection concepts in order to check and assess them in your work area.

Objectives

- > Efficiently applying protection principles in medium and high voltage systems
- > Considering the structure and functions of overcurrent, distance and differential relays
- > Applying the main parameters of these protection relays
- > Examining and assessing existing protection concepts and basic settings

Content

- > Mathematical basics to understand the major protection principles
- > Principles of star point connection as a basis for optimized protection concepts
- > Main parameters of CTs and VTs
- > Principles, functions and settings of relay parameters for overcurrent, distance, transformer differential and busbar protection

Solutions

Operating principles of the main protection functions
Major protection parameters and their setting
Fundamental criteria to assess protection concepts

Audience

Technical staff involved in maintenance and planning of electrical plants and protection systems in electric utilities and service companies

Prerequisites

Basic knowledge of electrical engineering