Course description

INTCV166
Protection of Transmission Lines

Course goal
The goal of the course is to improve the knowledge and the ability of the personnel’s involved in protection study and setting of Transmission lines protection

Learning objectives
To impart knowledge on the various aspects of transmission line Protection and products normally used in these applications.

Participant profile
Personnel from Power Utilities, Power Generation companies & industries and Consultants responsible for engineering, relay setting, testing, commissioning, operation, and maintenance of substations.

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

Topics
- Introduction - Positioning of power devices in the power system, faults and disturbances, line parameters, protection functions overview etc.
- Requirements of Line Protection
- Protection of Series Compensated Lines
- Auto Reclosing, Power Swing etc
- Line Protection Settings.
- Auto Reclosing - 1 ½ CB Arrangement
- Carrier Aided Distance Protection
- Wide area Measurement
- Measuring Principles & Instrument transformer requirements for transmission lines
- Settings Calculation examples of Transmission lines protection
- Hands on Demonstration & Training
- Various line protection relays (Numerical & Microprocessor based) - available relays, application and testing
- 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.

Course duration
The duration of the course is Three day