Course description

INTCV213
Substation Engineering

Course goal

The goal of the course is to improve the ability of Personnel from Power Utilities, Power Generation, transmission companies & industries and Consultants responsible for engineering, commissioning, operation and Maintenance of substations to know the various aspects of substation engineering.

Learning objectives

Upon completion of this course, the participant shall be able to;

- Understand various substation basics, switching configurations
- Understand different types of busbar configurations, layout engineering
- Calculations of substation design
- Understand the various substation equipments & Accesories

Participant profile

Practicing engineers from substations, consulting group, protection, high voltage and medium voltage products. All new engineers.

Prerequisites

Basic understanding of Substation Engineering or experience in electrical industry is required.

Topics

- Switchyard Basics, various Switching configurations.
- Interlocking and protection philosophy for different bus configurations
- Layout engineering (Basic considerations)
- Overview of substation design calculations
- Statutory obligations and safety aspects in substation
- Equipments and accessories
- Interface requirements for control, protection, communications, SCADA etc.

Course type and methods

This is an instructor led seminar Classroom presentations, calculation exercise and software demonstration. The language of the course is English.

Course duration

The duration of the course is One day.

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