

IEC 61850 for Power Utility Automation

The aim of this course is to extend basic knowledge of IEC61850 communication protocol. The participants will complete example project and configure different IEC 61850 features and become familiar with software required for configuration and testing both horizontal and vertical communication. The basic hardware for this course are Relion 615/620, RIO600 and COM600.

Objectives

After this course the participant will be able to:

- understand the basics of IEC 61850 standard in regard with the products provided by ABB Oy Distribution Solutions
- use communication configuration tools, e.g. IEC 61850 OPC Server and Communication Engineering Tool
- build vertical and horizontal communication
- get an overall picture of substation configuration using IEC 61850

Participant profile

Engineers who want to learn the basics of substation communication and who want to build a system, where COM600 and ABB Relion family relays and devices communicate with each other using IEC 61850.

Prerequisites

Basic knowledge of configuration Relion Family IED's in PCM600.

Topics

- IEC61850 standard description
- GOOSE configuration
- IEE1588 time synchronization
- Basic Ethernet switch configuration: VLANs, Time synchronization and redundancy
- Client-server communication with COM600
- Redundant communication: HSR, PRP, RSTP

Course Code	P246
Duration	2 days
Course Fee	Online training free of charge
Language	English
Registration	For registration please contact Vaasa.ABBuniversity@fi.abb.com