COURSE DESCRIPTION

CHH670 – MV Relays
Relion Series

Course goal
The goal of this course is to learn the operation and configuration of the RELION 615 SERIES and RELION 620 SERIES protection and control relays.

Main learning objectives
The participants will be able to:
— Monitor and operate the relay
— Setup a PCM600 project
— Find faults and troubleshoot from the HMI relay
— Find faults and troubleshoot through the relay program
— Understand the basics of the protection software, logic, interlocks and operation philosophy (fundamental analysis)
— Understand the relay program architecture
— Design and configure applications using the application configuration tool
— Set or change parameters using the parameter setting tool
— Customize the graphical display
— Backup and restore configurations and settings
— Make adaption and changes in the relay logic based on new site requirements (change logic, add or delete signals)
— Make alarm and event analysis in case of fault(s) or trip(s)

Prerequisites
Participants should be familiar with protection and control relays, have basic knowledge of the Windows operating system and of technical English.
PCM600 software (license free) needs to be installed on the trainee’s PC.

Topics
— Overview of the product family and application
— Hardware and design
— Local/Web HMI
   - Display navigation
   - Alarm/event analysis
— PCM600 software installation and startup
— Application configuration
— Parameter settings
— Troubleshooting / disturbance handling
— IEC61850 communication

Course type and methods
This is an instructor-led course with lectures, interactive classroom discussions, associated practical exercises, demonstration of best practice examples and group work.

Duration
The duration is 3 days.

Participant profile
This training is targeted to engineering, planning, advanced operating, commissioning, maintenance and service personnel working with the mentioned ABB relays.
## Course map

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Typical course layout (time or sequence may change)