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## 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)

### Participant profile

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

### 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.

## Course map

	DAY 1	DAY 2	DAY 3
<b>Topics</b>	Welcome, personnel introduction Course introduction Product family Hardware and design Local HMI, Web HMI	Review day 1 Exercise local HMI & Web HMI PCM600 software and startup LED and functional keys Application configuration tool	Review day 2 Parameter setting tool Disturbance handling Graphical display IEC61850 communication Alarm/event analysis Questions and answers Evaluation Course close
<b>Time</b>	9:00 a.m. – 5:00 p.m.	9:00 a.m. – 5:00 p.m.	9:00 a.m. – 5:00 p.m.

Typical course layout (time or sequence may change)