

## Air circuit breakers 3WL and 3WA protection technology and communication (LV-COPR)

### Short Description

There are 3 course modules offered. (LV-3WLMAIN, LV-3WAMAIN and LV-COPR), which can also be booked individually. Recommended combinations are shown in the learning paths. For certification (LV-CERT), all three course modules must be completed.

### Objectives

The course is designed to provide participants with expertise in low-voltage protection technology and circuit breaker communication. The focus is on the fault cases, tripping characteristics and settings of the ETUs (3WL and 3WA) and, in the communication part, the connection via the powerconfig software. The advantages of digital solutions for commissioning and preventive maintenance are trained.

### Target Group

- Commissioning engineers and project engineers
- Operating personnel
- Sales

### Content

- Basics of low-voltage protection technology (standards, fault cases, dimensioning, tripping characteristics, selectivity)
- Settings of the ETUs of the 3WL and 3WA
- Practical exercises on the demo case or on the breaker
- Advanced protection functions, measurement functions and licensing of the 3WA
- Communicative connections of the switches
- Exercises with Powerconfig
- Available support from Siemens (documents, internet presence)

### Prerequisites

- Basic principles of electrical engineering and power distribution.
- Knowledge of technical options and specifications of circuit breakers.
- The preceding course modules according to learning path

### Note

Practical exercises on training systems (3WL circuit breakers and demo case).

### Type

Face-to-face training

### Duration

1 day

### Language

en