

# System-based protection testing with CMC



O 2 days





# Cprs05en

Learn how to efficiently create system-based protection tests with RelaySimTest. Explore a comfortable way of end-to-end testing using the TestSetRemoteAgent. Get familiar with the test procedure in hands-on and theoretical sessions.

## **Objectives**

- Exploring the benefits of system-based testing in comparison to parameter testing
- Designing different grid scenarios to create realistic fault conditions
- Simulating faults to test the behavior of your protection systems
- Using RelaySimTest from scratch

#### Content

- > Introduction to system-based testing
- Definition of suitable test cases for different protection schemes >
- Modelling of test grid topologies in RelaySimTest >
- System-based distance protection testing >
- Iterative closed loop testing of the autoreclosure function
- Easy end to end testing of distance teleprotection and line differential protection >
- Testing of the power swing blocking function of a distance protection relay
- Easy end to end testing of line differential protection taking CT saturation into account >
- Short introduction to further test applications (e. g. busbar protection testing)
- Synchronized injection with TestSetRemoteAgent and CMGPS588

### **Solutions**

RelaySimTest, TestSetRemoteAgent, **CMC-Family** 

# **Audience**

Technical staff from utilities, transmission and distribution networks, service companies and manufacturers involved in protection testing or grid simulation

### **Prerequisites**

Basic knowledge of protective relaying and protection testing

