

Advanced overcurrent, distance, and differential protection testing with CMC

3 days | **English** | **# Cprs03en**

Expand your testing knowledge and skills in theoretical and hands-on sessions in small groups. You will get familiar with advanced protection testing methods in power system protection testing. You will be able to extend the range of use of your OMICRON testing solution.

Objectives

- Perform commissioning, trouble-shooting and periodic tests of protection relays
- Refresh and expand your knowledge of overcurrent, distance and differential protection
- Use XRIO converters (relay models) and test templates efficiently
- Significantly reduce your testing time by using automated test routines
- Reuse automated test templates to enhance your test quality
- Combine settings-based testing (Test Universe) and system-based testing (RelaySimTest) for best test coverage

Content

- Short wrap-up of the test plans created during the preceding course
- Creating test plans, applying test automation, and hands-on testing
- Directional and inverse overcurrent protection (IDMT)
- Distance protection: starting schemes, teleprotection, power swing blocking
- Testing of additional functions: switch-onto-fault, autoreclosure, synchrocheck
- System-based testing of differential protection relays
- Transformer differential protection (including restricted earth fault)
- Line differential protection including end-to-end testing

Solutions

CMC family
Test Universe & OMICRON Control Center (OCC)
Protection Testing Library (PTL)
RelaySimTest
ADMO (data management)
OMICRON Accessories

Audience

Technical staff from utilities & companies working mainly in commissioning or maintenance testing

Prerequisites

Training Courses:
“Automated Power System Protection Testing with CMC”
“Automated distance and differential protection testing with CMC” or equivalent knowledge