



Automated overcurrent protection testing with CMC

 1 day

 English

 Cprs01en

You will learn how to efficiently test overcurrent relays with the OMICRON Test Universe. Become familiar with the test procedures in theoretical and hands-on sessions and get to know the benefits of automated testing.

Objectives

- ▶ Get familiar with the CMC test set and the Test Universe software for testing overcurrent protection relays
- ▶ Get to know important safety aspects for test preparation and execution
- ▶ Refresh your technical knowledge of overcurrent protection
- ▶ Become more efficient in testing by using automated test plans
- ▶ Generate test reports customized to your needs
- ▶ Know the OMICRON support options including technical support, knowledge library and the worldwide community

Content

- ▶ Overview of protection testing basics
- ▶ Introduction to the OMICRON Control Center (OCC) and relevant test modules
- ▶ Modelling of the relay characteristics in the Test Object for subsequent testing
- ▶ Test setup and configuration options for the CMC test set
- ▶ Quick current and voltage output for easy wiring tests
- ▶ Fundamentals of non-directional overcurrent protection functions
- ▶ Creating a reusable test plan (OCC file) for testing non-directional overcurrent relays including
 - ▶ testing the pick-up values of the first and second stage
 - ▶ testing the trip times of the first and second stage
 - ▶ customization of the automatic test report
- ▶ Hands-on testing of non-directional overcurrent protection

Solutions

Test Universe: QuickCMC, Ramping, Pulse Ramping, State Sequencer, Overcurrent
OMICRON Control Center
CMC-Family

Audience

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

Prerequisites

Basic knowledge of power system protection