Automated distance and differential protection testing with CMC
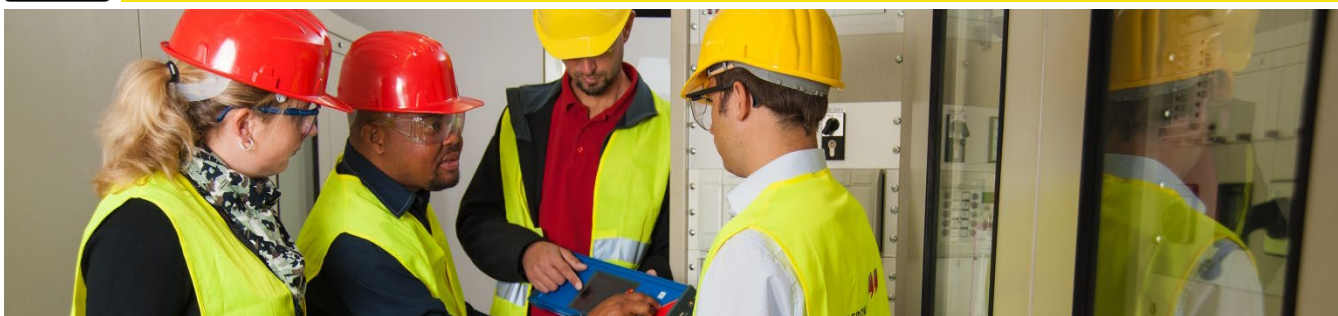
⏱ 2 days	💬 English	# Cprs02en

You will learn how to efficiently test distance and transformer differential 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 reusable test templates.

Objectives

> Strengthen your testing skills with the CMC hardware and the Test Universe software
> Refresh your technical knowledge on distance and transformer differential protection functions
> Be able to choose the appropriate software modules for testing distance and transformer differential relays
> Become more efficient in testing by creating and expanding reusable test plans
> Get to know the full range of OMICRON solutions for protection testing

Content

> Power system protection principles and typical substation topologies
> Fundamentals of distance, ground fault and transformer differential protection functions
> Working with OMICRON Control Center (OCC) test plans
> Modelling the relay characteristics in the Test Object and configuring the CMC test set
> Creating a reusable test plan for testing distance relays including
> > testing the trip times
> > verifying the zone reaches
> Creating a reusable test plan for testing transformer differential relays including
> > testing the stability during external faults
> > testing the tripping characteristic and times
> > testing harmonic restraint function
> Testing ground fault protection with RelaySimTest using realistic network simulation
> Hands-on testing of distance and transformer differential relays as well as ground fault protection function

Solutions

Test Universe: Advanced Distance,
Advanced Differential
OMICRON Control Center
RelaySimTest
ADMO, CMC-Family

Audience

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

Prerequisites

Training course "Power System Protection Testing 1" or equivalent knowledge

Join our training courses and get registered on www.omicron.academy

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