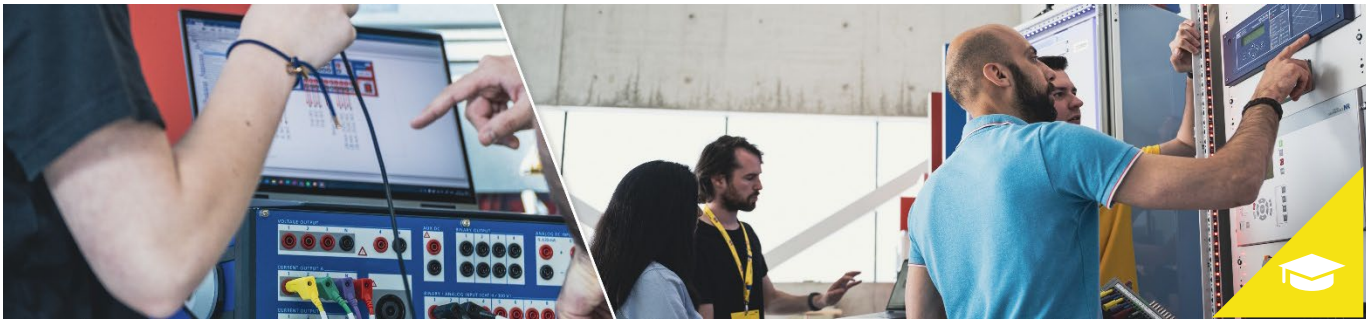

Protection Testing 201 – Distance and Differential with Test Universe & RelaySimTest

2 days | **English** | **# Cprs22en**

Learn how to test advanced relay protection and schemes with OMICRON Test Universe and RelaySimTest. This course covers distance protection and differential protection in an environment for advanced users. Get familiar with the test procedure in hands-on and theoretical sessions. Work with test setups wired to mimic real-world conditions.

Objectives

- Testing distance and transformer differential relays with OMICRON Test Universe
- Testing distance and transformer differential relays with OMICRON RelaySimTest
- Performing End-to-End testing with multiple tests sets in Test Universe and RelaySimTest
- Creating and modifying test plans and customized test reports
- Using OMICRON Test Universe and RelaySimTest from scratch

Content

- Quick current and voltage output for easy wiring checks
- Configuration of the Test Object parameters and the test hardware
- Creating test plans from scratch
- Distance protection theory and parameter setup
- Line differential protection including end-to-end testing
- Hands-on testing of line relays
- Transformer differential protection theory, parameters, and test setup
- Hands-on testing of differential relays
- Building a power system model in RelaySimTest for line and transformer protection
- Configuring the test hardware in RelaySimTest
- Creating test cases with the power system model

Solutions

Control Center, QuickCMC, Advanced Distance, Advanced Differential, Test Universe, RelaySimTest, CMC Family

Audience

Technical staff from utilities, transmission and distribution networks, railway grids, service companies, and manufacturers involved in protection testing

Prerequisites

Basic knowledge of power system protection
Good understanding of distance and differential protection
Attended Basic Protection Testing Course: Protection Testing 101 – Basics and Overcurrent with Test Universe