





# Instrument transformer diagnostics with CPC 100

 1.0 day

 English

 #oCitr01en

Get to know the wide scope of applications and operation of the CPC 100. Learn how to efficiently test CTs and VTs in hands-on and theoretical sessions using Primary Test Manager (PTM). Work with CTs and VTs to gain experience with this application.

## Objectives

- ▶ Perform commissioning, troubleshooting and periodic tests of CTs and VTs
- ▶ Create asset specific test plan including wiring diagram
- ▶ Automatic assessment according to industry standards
- ▶ Comprehensive reporting, including templates for all standard and advanced tests

## Content

- ▶ Measure the CT and VTs ratio or ratio error as functional test of the ITs' performance as part of commissioning tests
- ▶ Evaluate the excitation current and the CT's knee-point to define its error and performance
- ▶ Background about winding resistance measurement to find possible electrical damage in windings or contact problem
- ▶ Perform burden measurement to determine the influence of cables and connections on the burden impedance
- ▶ Check the polarity check between the primary and secondary windings of an IT to prevent maloperation of connected protection devices
- ▶ How to efficiently perform all relevant commissioning test using Primary Test Manager (PTM)
- ▶ Automated generation of test reports with Primary Test Manager (PTM)

## Solutions

CPC 100, CP SB2, CPOL2  
Primary Test Manager (PTM)

## Audience

Technical staff involved in transformer testing in utilities, transmission, distribution and generation networks, railway grids, service companies and manufacturers.

## Prerequisites

Knowledge of electrical engineering