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