



## Instrument transformer diagnostics with CPC 100



4 days

English

Citr01en

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