



Online-Course: Time-optimized circuit breaker diagnostics with CIBANO 500

 5 hours

 English

 oCcbr01en

Get to know the CIBANO 500 and the measurement principles for circuit breakers. Learn how to perform efficient circuit breaker tests in hands-on and theoretical sessions. Simplify your tests with the PTM (Primary Test Manager).

Objectives

- ▶ Perform commissioning, troubleshooting and periodic tests of different types of circuit breakers
- ▶ Carry out all relevant circuit breaker tests with one single test setup by using optional accessories
- ▶ Perform straightforward assessment circuit breaker parameters with reference results
- ▶ Fully automate a series of circuit breaker tests for maximum efficiency

Content

- ▶ Typical reasons for failure of circuit breakers
- ▶ Reasons for maintenance and testing of different MV and HV circuit breakers
- ▶ Overview about different types of MV and HV (live-tank, dead-tank and GIS) breakers and its components
- ▶ Comparison of conventional vs. time-efficient circuit breaker testing with CIBANO 500
- ▶ Typical tests on MV and HV circuit breakers such as static contact and dynamic resistance measurement (DRM), timing tests for main/auxiliary contacts and pre-insertion resistors, minimum pick-up tests, coil and motor current, contact travel (motion) of main contacts
- ▶ Safely perform timing tests on Gas Insulated Switchgears (GIS) with both-sides grounded using Current Sensor Measurement (CSM) method
- ▶ Automatic test execution of comprehensive circuit breaker tests with CIBANO 500 and Primary Test Manager (PTM)
- ▶ Evaluation of the measurement results by means of practical examples
- ▶ Analyzing case studies of most common defects on various circuit breakers

Solutions

CIBANO 500
CB MC2, CB TN3 and accessories
Primary Test Manager (PTM)

Audience

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

Prerequisites

Knowledge of electrical engineering