Diagnosis of Distribution and Power Transformers

Summary: Participants acquire the knowledge and skills to perform and operate diagnostic tests (conventional or advanced as FRSL measures, FRA, FDS) on power and distribution transformers. Subsequently this knowledge is embodied in practical work.

Products: CPC-Family, DIRANA, FRANEO 800

Prerequisites: General knowledge of power and distribution transformers

Duration: 4 days Language: English Code: C.0145.EAX

Objectives

> Performing diagnostic measurements on transformers
> Interpreting and evaluate the measurement results
> Correlating results from different measurement methods

Content

> Introduction to the diagnosis of transformers
> Electrical basic tests on a transformer
    Transformer Ratio
    Winding Resistance
    On-load Tap Changer Test
    Short-circuit impedance measurement
> Introduction to the measurement of tan δ (dielectric loss factor) and the frequency response of the dielectric (FDS)
    Measurement of dissipation factor on insulation of windings
    Implementation and interpretation of results
> Introduction to the sweep frequency response analysis of the scanning coils (SFRA)
    Measurement principles of the SFRA
    Implementation and interpretation of results

Products

> CPC 100, CP SB1, CP TD1
> DIRANA
> FRANEO 800
> PTM (Primary Test Manager)

Audience

Technicians and engineers from utilities or companies responsible for maintenance and diagnostics of power transformers.