TRANSFORMER DIAGNOSTICS

Testing of transformers is important for both manufacturers and end users. Manufacturers need to be certain their units are meeting the desired specifications, while end users need to perform regular maintenance procedures to detect minor fault symptoms before timely and costly failures occur.

This course is designed to help transformer manufacturers, utility and contract workers, repair companies, and research labs satisfy their testing needs.

In addition to training, Hipotronics provides installation, calibration, repair, and system upgrade services to keep your systems performing at the highest level.

This training is usually held over the course of 2 days.

NOTE

This course can be further tailored for transformer manufacturers to include partial discharge testing, induced voltage testing, lightning impulse testing, applied AC testing, and loss testing.

LEARN HOW TO:

- Measure insulation resistance
- Measure polarization index
- Perform winding resistance measurement for any size transformer
- Assess condition of transformer insulating oil with dielectric withstand tests
- Run three-phase and single-phase turns ratio meters (TTR)
- Measure power factor and dissipation factor to detect aging and deterioration within the insulation of the transformer
- Measure short circuit impedance of power transformers at reduced current
- Perform capacitance and tan delta testing
- Conduct frequency response analysis to verify mechanical/electrical integrity

RELEVANT PRODUCTS:

- Insulation resistance tester (5478, HVM Series)
- Winding resistance meter (2293)
- Oil dielectric test set (OC60D, OC90D, E-series)
- Turns ratio meter (2795, 2796)
- Power factor tester (MIDAS)
- Frequency response analyzer (FRA5310)

