



Half-Century Transformer

JUNE 9-11, 2015 — PERTH, WESTERN AUSTRALIA

COURSE DESCRIPTION

This course focuses on maintenance of the insulating system in fluid filled transformers. It provides a foundation for intelligent transformer management, from the basic design and construction to life expectancy and extension.

WHO SHOULD ATTEND THIS COURSE?

Individuals responsible for the maintenance of liquid filled transformers including: electrical technicians and engineers, maintenance managers, engineering management, electrical contractors, and service companies.

Class Objectives

UPON COMPLETION, YOU WILL...

Be able to identify transformer design, construction and materials, including the core, windings and insulating system.

Understand the purpose of mineral oil dielectric fluids and other electric insulating fluids.

Know the analytical tests for electrical insulating fluids, and be able to compare analytical test results to industry standards for new and in-service electrical insulating fluids.

Be able to identify conditions that cause accelerated aging and/or premature transformer failure.

Understand the qualitative and quantitative methods for interpreting dissolved gas analysis of electrical insulating fluid.

Know the purpose of factory and field electrical tests.

Be able to develop an intelligent transformer maintenance plan and implement practical maintenance procedures that will extend the life of a transformer.

MATERIALS & TOOLS INCLUDE:

- Course Textbook
- *Transformer Maintenance Guide* (\$149 value)
- Moisture Calculator



Load Tap Changer

MAINTENANCE

JUNE 12, 2015 — PERTH, WESTERN AUSTRALIA

COURSE DESCRIPTION

This class discusses the theory of load tap changing and identifies the various types and styles of tap changers, their components and sequence of operation. It also includes monitoring, inspections and testing required for developing an intelligent preventative load tap changer maintenance program.

WHO SHOULD ATTEND THIS CLASS?

Individuals responsible for the load tap changers including: electrical technicians and engineers, maintenance managers, engineering management, electrical contractors and service companies.

Class Objectives

UPON COMPLETION, YOU WILL...

Be able to identify the purpose, types, styles, and components of load tap changers.

Know the causes for coking, misalignment, tracking, brake failure etc., on load tap changers.

Build confidence in making informed decisions about load tap changer maintenance issues.

Be able to prevent unplanned and unscheduled outages connected to load tap changers.

Be able to identify the sequence of operation and monitoring systems of a typical load tap changer.

Be able to develop an inspection and testing program.

Have more knowledge to develop an intelligent maintenance program for load tap changers.

MATERIALS & TOOLS INCLUDE:

- Course Textbook