



**GCC Electrical
Testing Laboratory**
المفتبر الفليبي لفص المعدات الكهربائية

Electric Apparatus Condition Assessment

Interactive 3-day seminar combines theoretical background with practical experience to provide engineers, chemists and others who review data with the vital knowledge and hands-on examples – including case studies – needed to interpret laboratory results to detect and identify problems with electric apparatus. Doble encourages participants to bring their unique real-world problems for discussion.



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Education
Course Code: **EXX1**



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SEPTEMBER 30
OCTOBER 4
2018



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Objectives

Upon completion of this course, the Participant will be able to:

- Determine the condition of electrical apparatus using laboratory tests.
- Understand how knowing insulating material aging characteristics can help extend asset life.
- Take proper oil samples, avoid common sampling pitfalls.
- Detect the presence of incipient-fault conditions and categorize them.
- Assess the condition of the paper insulation.
- Establish the correct method of analyzing the moisture-in-oil results.
- Study the significance of dissolved and particulate metals and other particle contamination.
- Learn about the quality of oils on the market today.
- Introduction to transformer oil processing and field vacuum dry-out.

PROGRAM

Electric Apparatus Condition Assessment

Training Outline:

DAY 1:

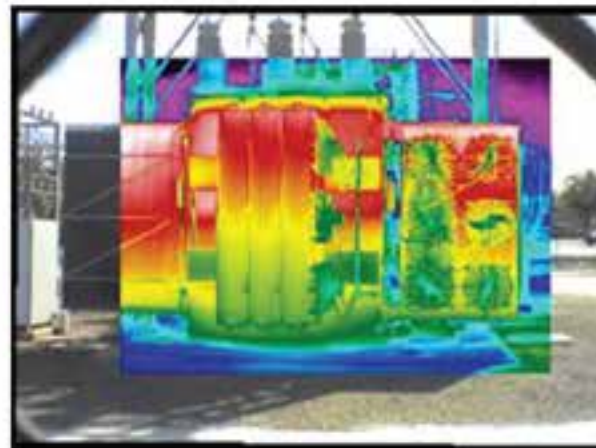
Dissolved Gases in Oil; Explosive Gas Concentrations; Water in Oil.

DAY 2:

Aging Characteristics of Cellulosic Insulating Materials; Metals in Oil; Quality of New and Service Aged Oils; Transportation of Oils.

DAY 3:

Corrosive Sulfur; Testing and Diagnostics for LTCs; Sampling; Introduction to Transformer Oil Processing and Field Vacuum Dry-out.



Addressed to:

Electrical engineers and chemists working in operations, maintenance, engineering, or other service field in which knowledge of asset design, insulating fluid analysis or electrical testing methods and evaluation is required part of his job responsibility.

Duration:

Course Fees:

3 Full Days

Location/Venue:

GCCIA HQ, Dammam