



Consulting and Training | Reach New Heights

Course Name

Electrical Asset Condition & Life Extension

Sector Name

Electrical Engineering

Document Type

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Electrical Asset Condition & Life Extension

Course Introduction

Electrical assets rarely reach the end of their useful life simply because they have reached a certain age. Transformers, switchgear, cables, motors, and other critical equipment deteriorate at different rates depending on loading, operating history, environment, maintenance quality, duty cycles, and previous faults. Replacing equipment too early can consume unnecessary capital, while extending operation without understanding its actual condition can expose the organization to increasing reliability and failure risks.

Boost Consulting & Training has designed this course to help electrical professionals make better lifecycle decisions based on asset conditions rather than age alone. Participants will learn how to recognize ageing mechanisms, combine inspection and test evidence, establish condition and criticality profiles, identify assets requiring closer attention, and compare continued operation, targeted maintenance, refurbishment, life-extension, and replacement options. The emphasis is on turning technical condition information into defensible asset decisions.

The main concept of this course is to understand how electrical assets age, determine how much useful service they can realistically continue to provide, and select the right intervention at the right stage of their lifecycle.

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Electrical Asset Condition & Life Extension

Target Audience

- ✓ Electrical and power engineers
- ✓ Electrical maintenance and asset engineers
- ✓ Reliability and condition monitoring professionals
- ✓ Plant, facility, and technical engineering professionals

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Learning Objectives

- ✓ Explain how operating conditions and ageing mechanisms affect electrical asset life.
- ✓ Identify condition indicators associated with major electrical equipment.
- ✓ Combine inspection, testing, maintenance, and operating history into meaningful condition assessments.
- ✓ Differentiate chronological equipment age from actual technical condition.
- ✓ Evaluate electrical assets according to both condition and operational criticality.
- ✓ Identify opportunities for safe and technically justified asset-life extension.
- ✓ Compare maintenance, refurbishment, continued operation, and replacement alternatives.
- ✓ Develop practical lifecycle recommendations for ageing electrical assets.

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Course Outline

✓ DAY 01

Understanding How Electrical Assets Age

Ageing Beyond Years in Service

- ✓ Connecting equipment deterioration with loading, thermal stress, switching duty, environment, and operating history
- ✓ Distinguishing normal ageing from accelerated deterioration and abnormal degradation
- ✓ Understanding how identical equipment can develop very different condition profiles over time

Recognizing Equipment-Specific Ageing Patterns

- ✓ Examining deterioration characteristics of transformers, switchgear, cables, motors, and associated equipment
- ✓ Identifying vulnerable components and failure mechanisms within different asset types
- ✓ Developing an Electrical Asset Ageing Profile from realistic equipment histories

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Course Outline

✓ DAY 02

Building the Asset Condition Picture

Reading Condition Evidence

- ✓ Using inspection findings, maintenance history, operating records, alarms, defects, and previous failures
- ✓ Identifying changes that indicate progressive deterioration rather than isolated abnormalities
- ✓ Establishing the information required before making significant lifecycle decisions

Interpreting Tests in Context

- ✓ Relating insulation, thermal, oil, electrical, mechanical, and other applicable test results to asset condition
- ✓ Comparing individual measurements with trends, historical results, and operating circumstances
- ✓ Completing an Asset Condition Evidence Review using mixed technical information

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Course Outline

✓ DAY 03

Rating Condition & Criticality

Developing Meaningful Condition Ratings

- ✓ Converting different forms of technical evidence into consistent condition categories
- ✓ Managing incomplete, conflicting, or uncertain condition information
- ✓ Identifying assets requiring additional testing or closer observation before classification

Connecting Condition with Operational Importance

- ✓ Assessing consequences according to load importance, redundancy, replacement difficulty, and failure impact
- ✓ Differentiating poorconditioned assets from assets representing the greatest overall business risk
- ✓ Building an Asset ConditionCriticality Matrix for an electrical equipment portfolio

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Course Outline

✓ DAY 04

Extending Useful Asset Life

Identifying Life-Extension Opportunities

- ✓ Determining whether deterioration can be controlled, corrected, monitored, or tolerated
- ✓ Evaluating targeted maintenance, component replacement, refurbishment, and operating adjustments
- ✓ Identifying technical limits beyond which continued life extension becomes inappropriate

Developing the Intervention Strategy

- ✓ Matching intervention depth to asset condition, criticality, deterioration rate, and required service period
- ✓ Comparing immediate intervention with staged improvement and enhanced monitoring
- ✓ Completing a Life Extension Decision Case for ageing critical equipment

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Course Outline

✓ DAY 05

Making Lifecycle Decisions for Electrical Assets

Continue, Refurbish or Replace

- ✓ Comparing continued operation, overhaul, refurbishment, upgrade, and replacement pathways
- ✓ Considering remaining useful life, reliability implications, obsolescence, and future system requirements
- ✓ Prioritizing capital intervention where technical evidence demonstrates the greatest need

Building the Asset Lifecycle Plan

- ✓ Establishing future inspection, testing, intervention, and reassessment requirements
- ✓ Updating lifecycle decisions as equipment condition and operational needs change
- ✓ Developing an Electrical Asset Life Extension Plan for a realistic asset portfolio

Electrical Asset Condition & Life Extension

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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