

# Optimizing Equipment Maintenance and Replacement Decisions

## Venue Information

**Venue:** London UK

**Place:**

**Start Date:** 2026-02-24

**End Date:** 2026-02-28

## Course Details

**Net Fee:** £4750.00

**Duration:** 1 week

**Category ID:** METC

**Course Code:** METC-20

## Syllabus

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#### Introduction

If you find yourself facing challenges with equipment failure, spare parts unavailability, or struggling to realize the benefits of your maintenance methods, this course is tailored for you. SkillLinx presents the Optimizing Equipment Maintenance and Replacement Decisions course, designed to equip you with the skills to make strategic decisions regarding asset maintenance and replacement.

#### Objectives

- Master optimization techniques crucial for strategic decision-making in maintenance.
- Learn to select the most suitable analytical tools for maintenance decision-making.
- Understand the link between safety objectives and optimization models.

## **Day 1 – Physical Asset Management & Reliability Concepts**

- Introduction to Physical Asset Management
- Total Productive Maintenance and Reliability Centered Maintenance
- Optimizing Maintenance & Replacement Decisions
- Reliability Improvement through Preventive Maintenance
- Analysis of Component Failure Data

## **Day 2 – Preventive Maintenance & Spare Parts Replacements**

- Component Replacement Procedures
- Spare Parts Provisioning
- Clinic: Hands-On Use of PC Software for Preventive Replacement Strategies

## **Day 3 – Machine Health Monitoring & Inspection**

- Inspection Frequency and Depth
- Health-Monitoring Procedures
- Role of Software for CBM Optimization

## **Day 4 – Economics of Reliability**

- Discounted Cash Flow Used in Capital Equipment Replacement Analysis
- Economic Life of Capital Equipment
- Repair-vs-Replace Decision

## **Day 5 – Effective Management of Maintenance Resources & Information**

- Effective Use of Maintenance Resources
- Maintenance Management Information Systems

## **Closing Remarks**

Mastering the art of maintenance optimization is crucial for enhancing operational efficiency and minimizing costs. Join us in this comprehensive course to gain the skills and knowledge needed to make informed decisions that maximize the lifespan and performance of your assets.