

Optimizing Equipment Maintenance and Replacement Decisions

Venue Information

Venue: London UK

Place:

Start Date: 2025-12-22

End Date: 2025-12-26

Course Details

Net Fee: £4750.00

Duration: 1 week

Category ID: METC

Course Code: METC-20

Syllabus

courses Syllabus

Introduction

If you find yourself facing challenges with equipment failure, spare parts unavailability, or struggling to realize the benefits of your maintenance methods, this courses is tailored for you. Skilllinx presents the Optimizing Equipment Maintenance and Replacement Decisions courses, 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 courses to gain the skills and knowledge needed to make informed decisions that maximize the lifespan and performance of your assets.