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COURSE BROCHURE

# Maintenance Strategy and Lifecycle Cost Planning Training Course

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Registered in the United Kingdom and Saudi Arabia

# Maintenance Strategy and Lifecycle Cost Planning Training Course

Maintenance Strategy and Lifecycle Cost Planning is a 1-week training course for maintenance managers, planners and reliability engineers who must choose the right tactic for every asset and fund it over its working life, ending with a costed maintenance strategy plan. Rising asset ages, tighter operating budgets and scarce skilled crafts make each tactic choice a long-term spending decision. Jupiter Prime Training runs this course.

## Why Maintenance Strategy and Lifecycle Cost Planning Matters Now

Ageing plant, energy prices and finance teams that question every maintenance request now shape how tactics are chosen. Operations leaders want fewer unplanned stops, while finance wants spending tied to asset value and risk. An organisation that matches tactics to criticality spends less over an asset's life and avoids both over-maintenance and run-to-failure surprises; one that copies vendor schedules carries hidden cost and avoidable downtime. The course rests on ISO 55001 for asset management systems, EN 13306 for maintenance terminology, and industry metric definitions for maintenance and reliability performance.

## Who Gains Most from Maintenance Strategy and Lifecycle Cost Planning

- Maintenance leads who set the tactic mix for a plant area or site
- Planners who convert tactics into task lists, intervals and labour hours
- Reliability specialists who weigh failure modes against consequence
- Maintenance cost controllers who build and defend the annual budget
- Engineering leads who sign off replace, refurbish or repair decisions

A site maintenance department gains most when its manager, planner and reliability engineer attend together.

## Maintenance Strategy and Lifecycle Cost Planning Capabilities

Participants link each asset's criticality and failure behaviour to a tactic, a cost over the asset's life and a budget line.

- Assess asset criticality with a consequence and likelihood matrix — site maintenance leadership
- Match failure patterns to preventive, predictive or run-to-failure tactics — reliability reviews
- Calculate lifecycle cost for competing tactics and renewal options — capital and finance teams
- Build a zero-based maintenance budget from task lists and labour hours — annual budget approval
- Specify work mix targets and cost-per-asset indicators — operations and plant managers
- Communicate a phased rollout with savings milestones — executive sponsors

## Key Maintenance Strategy and Lifecycle Cost Planning Terms

- Asset criticality — a ranking of how much an asset's failure would affect safety, output, environment and cost.
- Lifecycle cost — the total cost of owning an asset from acquisition through operation and maintenance to disposal.
- Work mix — the share of maintenance hours spent on planned, predictive, corrective and emergency work.
- Run-to-failure — a deliberate tactic of letting a low-consequence asset fail and then repairing or replacing it.
- Zero-based maintenance budget — a budget built up from required tasks and frequencies rather than last year's spend.
- Cost per asset — total maintenance spend for one asset or class over a period, used to compare tactics.

## Maintenance Strategy and Lifecycle Cost Planning Day by Day

### Day 1: Asset Base and Cost Drivers

- Asset Register Hierarchy — Which Assets Need Their Own Tactic
- ISO 55001 Line of Sight — Linking Maintenance Spend to Business Aims
- EN 13306 Maintenance Types — Shared Language for Tactic Choices
- Maintenance Cost Breakdown — Labour, Spares, Contractors and Downtime
- Current Work Mix Baseline — Where Hours Are Lost Today

### Day 2: Criticality and Failure Behaviour

- Consequence and Likelihood Matrix — Ranking Assets by Business Impact
- Failure Mode Listing — Which Failures Drive Cost and Risk
- Failure Pattern Curves — Age-Related Versus Random Failure Tactics
- P-F Interval Estimation — Setting Condition Check Frequencies
- Hidden Failure Testing — Protecting Standby and Safety Devices

### Day 3: Tactic Selection and Lifecycle Costing

- Tactic Decision Tree — Preventive, Predictive or Run-to-Failure
- Lifecycle Cost Model — Comparing Tactics Over Asset Life
- Repair, Refurbish or Replace Analysis — Timing Renewal Spend
- Spares Criticality Ranking — Holding Cost Against Downtime Exposure
- Outsourcing Versus In-House Costing — Contractor Scope Choices

### Day 4: Budget Models and Performance Indicators

- Zero-Based Maintenance Budget — Building Spend From Task Lists
- Labour Hour Estimating — Craft Capacity Against Planned Workload
- Work Mix Targets — Shifting Hours From Reactive to Planned
- Cost per Asset Indicators — Tracking Tactic Value by Class
- Maintenance Cost to Replacement Value Ratio — Benchmarking Spend Levels

## Day 5: Practising the Costed Maintenance Strategy Plan

- Criticality Ranking of a Sample Asset Set — Applying Day 2 Methods
- Tactic Assignment and Lifecycle Comparison — Applying Day 3 Models
- Budget Build From Assigned Tasks — Applying Day 4 Estimating
- Phased Rollout and Savings Milestones — Sequencing the Change
- Costed Maintenance Strategy Plan — Presenting to Sponsors

## Applying Maintenance Strategy and Lifecycle Cost Planning After the Course

- Rank the top fifty assets in one plant area with the consequence and likelihood matrix and review tactics for the highest ten.
- Run a lifecycle cost comparison for one ageing asset class and present the repair, refurbish or replace option to engineering leads.

## Maintenance Strategy and Lifecycle Cost Planning Questions FAQ

### What is maintenance strategy and lifecycle cost planning and why does it matter now?

It is the practice of choosing a tactic for each asset from its criticality and failure behaviour, then costing that tactic over the asset's life. It matters now because ageing plant and tighter budgets make every tactic a long-term spending choice.

### Which roles gain most from maintenance strategy and lifecycle cost planning?

Maintenance managers, planners, reliability engineers and maintenance cost controllers gain most. You gain if you set tactics, estimate labour or defend the budget.

### How does maintenance strategy and lifecycle cost planning differ from a general maintenance management course?

It focuses on tactic selection and lifecycle costing rather than daily work orders, scheduling or crew supervision. You work through criticality, failure patterns, lifecycle cost models and zero-based budgets that link each tactic to money.

### What do you bring back from maintenance strategy and lifecycle cost planning?

You bring back a costed plan for a sample asset set. It holds a criticality ranking, assigned tactics, lifecycle comparisons, a task-based budget and a phased rollout with savings milestones that you can adapt to your own site.

## Maintenance Strategy and Lifecycle Cost Planning: The Way Forward

The costed maintenance strategy plan first informs which assets move from reactive repair to planned or condition-based tactics. Maintenance managers and finance partners use it to set next year's budget and work mix targets. After its first cycle, revisit the criticality ranking and failure data against actual cost per asset.