



Consulting and Training | Reach New Heights

Course Name

Maintenance Cost & Resource Optimization

Sector Name

Maintenance & Reliability Management

Document Type

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Maintenance Cost & Resource Optimization

Course Introduction

Maintenance organizations are constantly required to balance equipment needs with limited budgets, workforce capacity, contractor support, materials, and available maintenance windows. Cost pressure can lead to indiscriminate reductions, while poorly targeted spending can consume significant resources without delivering corresponding improvements in asset performance. The real challenge is therefore not simply to reduce maintenance costs, but to understand where resources are being consumed and redirect them toward the work that creates the greatest operational value.

Boost Consulting & Training offers this course to develop a practical approach to maintenance cost and resource optimization. The program examines maintenance cost drivers, labor utilization, overtime, contractor use, materials and services, reactive maintenance costs, budget priorities, resource allocation, and cost-performance trade-offs.

Participants learn to identify hidden sources of maintenance expenditure and evaluate optimization opportunities without compromising reliability or operational requirements.

The main concept of this course is to optimize maintenance spending by directing people, budget, and external resources toward

activities that deliver the strongest contribution to asset performance and operational continuity.

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Target Audience

- ✓ Maintenance and reliability managers
- ✓ Maintenance supervisors and engineers
- ✓ Maintenance planning and resource professionals
- ✓ Asset management and technical operations professionals

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Maintenance Cost & Resource Optimization

Learning Objectives

- ✓ Identify the major drivers of maintenance cost and resource consumption.
- ✓ Analyze maintenance expenditure by asset, work type, and cost category.
- ✓ Distinguish necessary maintenance spending from avoidable cost and inefficiency.
- ✓ Evaluate workforce capacity and improve the utilization of maintenance resources.
- ✓ Make informed decisions regarding internal resources, overtime, and contractor support.
- ✓ Prioritize maintenance expenditure according to asset importance and operational value.
- ✓ Evaluate cost reduction opportunities without creating unacceptable reliability exposure.
- ✓ Develop practical maintenance cost and resource optimization actions.

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Maintenance Cost & Resource Optimization

Course Outline

✓ DAY 01

Understanding Where Maintenance Money Goes

Mapping Maintenance Cost Drivers

- ✓ Break maintenance expenditure into labor, materials, spare parts, contractors, services, and other major categories.
- ✓ Examine how reactive and planned maintenance generate different cost patterns.
- ✓ Identify costs that are visible in budgets and those hidden within operational disruption and repeated work.

Finding Cost Concentration

- ✓ Analyze expenditure across assets, equipment groups, work types, and maintenance activities.
- ✓ Identify assets and activities consuming disproportionate resources.
- ✓ Build a Maintenance Cost Profile highlighting the major areas of expenditure and potential concern.

Maintenance Cost & Resource Optimization

Course Outline

✓ DAY 02

Optimizing Workforce Capacity

Understanding Maintenance Resource Demand

- ✓ Compare required maintenance workload with available labor hours and technical skills.
- ✓ Identify capacity shortages, workload imbalance, and underutilized resources.
- ✓ Examine how emergency work and poor preparation consume available workforce capacity.

Improving Labor Utilization

- ✓ Evaluate productive time, waiting, travel, coordination, and other sources of lost capacity.
- ✓ Assess the impact of overtime and repeated callouts on maintenance cost and performance.
- ✓ Complete a Workforce Capacity Optimization Exercise using competing maintenance demands.

Maintenance Cost & Resource Optimization

Course Outline

✓ DAY 03

Making Better Contractor and Resource Decisions

Balancing Internal and External Resources

- ✓ Determine when maintenance work should be performed internally or supported externally.
- ✓ Consider technical capability, workload, frequency, urgency, and cost when selecting the resource model.
- ✓ Identify risks created by excessive or poorly controlled contractor dependence.

Controlling Contractor Value

- ✓ Define clear work scope and resource expectations before contractor mobilization.
- ✓ Compare contractor cost with delivered work, quality, responsiveness, and performance.
- ✓ Conduct a Make or Contract Decision Case for a portfolio of maintenance activities.

Maintenance Cost & Resource Optimization

Course Outline

✓ DAY 04

Prioritizing Maintenance Spending

Connecting Cost with Asset Importance

- ✓ Direct maintenance resources according to criticality and operational consequence.
- ✓ Distinguish high-cost activities that protect important assets from expenditure that provides limited value.
- ✓ Evaluate whether current spending patterns reflect actual business priorities.

Testing Cost Reduction Decisions

- ✓ Examine the reliability consequences of reducing tasks, labor, materials, or contractor support.
- ✓ Identify savings opportunities that remove waste rather than necessary maintenance.
- ✓ Run a Maintenance Budget Challenge requiring participants to reduce expenditure without creating unacceptable operational exposure.

Maintenance Cost & Resource Optimization

Course Outline

✓ DAY 05

Converting Cost Analysis into Sustainable Improvement

Measuring Cost against Maintenance Value

- ✓ Compare expenditure with reliability, availability, downtime, and maintenance workload outcomes.
- ✓ Identify situations where lower cost does not represent better maintenance performance.
- ✓ Use cost and performance trends together to evaluate optimization results.

Building the Optimization Plan

- ✓ Prioritize opportunities according to financial benefit, operational impact, and implementation feasibility.
- ✓ Establish actions for workforce, contractors, maintenance activities, and resource allocation.
- ✓ Produce a Maintenance Cost & Resource Optimization Plan linking expenditure decisions with asset performance priorities.

Maintenance Cost & Resource Optimization

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 30, 2026	Dec. 4, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 4, 2027	Jan. 8, 2027	5 days	4950.00 \$	England , London
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Aug. 29, 2027	Sept. 2, 2027	5 days	4250.00 \$	KSA , Riyadh

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