



Consulting and Training | Reach New Heights

Course Name

Maintenance Performance Analytics & Decision Making

Sector Name

Maintenance & Reliability Management

Document Type

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Maintenance Performance Analytics & Decision Making

Course Introduction

Maintenance teams generate large amounts of information through work orders, equipment history, failure records, downtime, labor hours, backlog, maintenance costs, and schedule performance. Yet having more data does not automatically lead to better maintenance. Organizations may track numerous indicators without understanding which ones reveal reliability problems, resource constraints, planning weaknesses, or opportunities for improvement. The real value of maintenance analytics lies in connecting performance signals with the decisions that need to be made.

Boost Consulting & Training offers this course to develop a practical, decision-focused approach to maintenance performance analytics. The program explores how maintenance data can be structured, interpreted, and connected across reliability, work management, cost, and resource performance.

Participants learn to select meaningful measures, investigate performance deviations, identify patterns and relationships, and communicate insights that support maintenance priorities and management action.

The main concept of this course is to move beyond reporting maintenance numbers and use performance data to understand

what is happening, why it is happening, and what decision should follow.

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Target Audience

- ✓ Maintenance and reliability managers
- ✓ Maintenance and asset performance engineers
- ✓ Maintenance planners and supervisors
- ✓ Technical professionals responsible for maintenance reporting and performance improvement

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Learning Objectives

- ✓ Identify maintenance data that provides meaningful performance insight.
- ✓ Distinguish operational measures from indicators that support management decisions.
- ✓ Interpret reliability measures such as failure frequency, MTBF, MTTR, and equipment availability.
- ✓ Analyze backlog, planned work, schedule performance, and maintenance execution trends.
- ✓ Connect maintenance cost and resource data with asset performance.
- ✓ Investigate performance deviations and identify underlying patterns.
- ✓ Design focused maintenance performance views for different decision needs.
- ✓ Translate analytical findings into clear maintenance priorities and improvement actions.

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Maintenance Performance Analytics & Decision Making

Course Outline

✓ DAY 01

Building Reliable Maintenance Information

Understanding the Maintenance of Data Landscape

- ✓ Identify useful data from work orders, equipment history, failures, downtime, labor, materials, and costs.
- ✓ Distinguish data needed for daily control from information required for management decisions.
- ✓ Recognize missing, inconsistent, and poorly classified data that can distort performance analysis.

Creating Decision-Ready Measures

- ✓ Connect each measure with a specific maintenance question or management need.
- ✓ Distinguish leading indicators from results that reveal performance after the event.
- ✓ Build a Maintenance Measurement Map linking data, indicators, and management decisions.

Maintenance Performance Analytics & Decision Making

Course Outline

✓ DAY 02

Reading Asset Reliability Performance

Interpreting Reliability Indicators

- ✓ Use failure frequency, MTBF, MTTR, availability, and downtime in the appropriate context.
- ✓ Understand what changes in reliability measures may indicate about asset behavior.
- ✓ Avoid misleading conclusions when comparing equipment with different operating conditions.

Finding Reliability Patterns

- ✓ Identify recurring failures, high-downtime assets, and changing performance trends.
- ✓ Separate isolated events from persistent reliability deterioration.
- ✓ Complete an Asset Performance Analysis to identify equipment requiring management attention.

Maintenance Performance Analytics & Decision Making

Course Outline

✓ DAY 03

Analyzing Maintenance Work Performance

Measuring Work Management Effectiveness

- ✓ Examine planned versus unplanned work, schedule compliance, backlog, and work completion patterns.
- ✓ Identify signs of weak planning, excessive emergency work, or capacity constraints.
- ✓ Interpret backlog age and composition rather than relying only on total work-order volume.

Diagnosing Execution Losses

- ✓ Analyze delays, repeated work, waiting time, incomplete jobs, and schedule disruption.
- ✓ Connect execution problems with planning, materials, resources, or operational access.
- ✓ Conduct a Maintenance Performance Diagnosis using a realistic set of work-management data.

Maintenance Performance Analytics & Decision Making

Course Outline

✓ DAY 04

Connecting Cost, Resources, and Performance

Reading Maintenance Cost in Context

- ✓ Analyze expenditure by asset, work type, labor, materials, and external services.
- ✓ Compare cost changes with reliability and maintenance workload trends.
- ✓ Distinguish productive investment from increasing expenditure caused by recurring problems.

Combining Multiple Performance Signals

- ✓ Connect reliability, workload, cost, and resource indicators to reveal wider performance issues.
- ✓ Identify situations where one indicator improves while overall maintenance performance deteriorates.
- ✓ Complete a Performance Trade-Off Challenge requiring decisions based on conflicting maintenance indicators.

Maintenance Performance Analytics & Decision Making

Course Outline

✓ DAY 05

Turning Analytics into Management Action

Designing Performance Views for Decisions

- ✓ Select indicators according to the needs of maintenance managers, supervisors, and reliability teams.
- ✓ Organize information around exceptions, trends, priorities, and required action.
- ✓ Avoid overloaded dashboards that display data without supporting decisions.

Leading the Maintenance Performance Review

- ✓ Convert performance deviations into focused questions and improvement priorities.
- ✓ Assign actions and follow performance after interventions are implemented.
- ✓ Produce a Maintenance Decision Dashboard & Action Brief that converts maintenance analytics into prioritized management decisions.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 14, 2026	Dec. 18, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
March 21, 2027	March 25, 2027	5 days	4250.00 \$	KSA , Riyadh
June 14, 2027	June 18, 2027	5 days	5950.00 \$	Switzerland , Interlaken
Sept. 6, 2027	Sept. 10, 2027	5 days	4250.00 \$	UAE , Dubai

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