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Course Name

Maintenance Strategy & Asset Reliability

Sector Name

Maintenance & Reliability Management

Document Type

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Maintenance Strategy & Asset Reliability

Course Introduction

Maintenance organizations often operate with a mixture of preventive routines, urgent repairs, inspections, and recurring interventions that have accumulated over time. The challenge is that not every asset carries the same operational importance, behaves in the same way, or requires the same maintenance approach. Applying excessive maintenance to low-risk equipment can waste resources, while insufficient attention to critical assets can increase failures, downtime, and operational exposure.

Boost Consulting & Training offers this course to help participants build maintenance strategies around asset criticality, failure behavior, operational consequences, and actual maintenance needs. The program moves beyond fixed maintenance routines to examine how organizations can segment assets, evaluate existing maintenance approaches, select appropriate intervention strategies, balance planned and reactive work, and continuously adjust maintenance decisions according to asset performance.

The main concept of this course is to direct the right maintenance effort to the right assets so that resources are used where they contribute most to reliability and operational continuity.

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Maintenance Strategy & Asset Reliability

Target Audience

- ✓ Maintenance managers and supervisors
- ✓ Reliability and asset management engineers
- ✓ Maintenance planners and engineers
- ✓ Operations and technical professionals involved in asset performance

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Maintenance Strategy & Asset Reliability

Learning Objectives

- ✓ Connect maintenance strategy with asset reliability and operational priorities.
- ✓ Classify assets according to their criticality and consequences of failure.
- ✓ Evaluate whether existing maintenance activities provide appropriate value.
- ✓ Distinguish between reactive, preventive, condition-based, and predictive maintenance approaches.
- ✓ Select maintenance approaches according to asset characteristics and failure behavior.
- ✓ Balance maintenance effort, reliability requirements, and available resources.
- ✓ Identify weaknesses and gaps within an existing maintenance strategy.
- ✓ Develop an improvement roadmap aligned with asset performance needs.

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Maintenance Strategy & Asset Reliability

Course Outline

✓ DAY 01

Connecting Maintenance with Asset Reliability

Understanding the Maintenance and Reliability Relationship

- ✓ Distinguish between maintaining equipment and improving its ability to perform reliably.
- ✓ Examine how maintenance decisions influence failures, downtime, availability, and operational continuity.
- ✓ Identify the consequences of over-maintenance, under-maintenance, and ineffective maintenance.

Understanding the Current Maintenance Environment

- ✓ Examine the balance between reactive, planned, and preventive maintenance work.
- ✓ Identify recurring maintenance patterns that may indicate strategic weaknesses.
- ✓ Build a Current Maintenance Profile showing how maintenance effort is presently distributed.

Maintenance Strategy & Asset Reliability

Course Outline

✓ DAY 02

Identifying What Matters Most

Assessing Asset Criticality

- ✓ Evaluate assets according to safety, production, operational, quality, and financial consequences.
- ✓ Distinguish highly critical equipment from assets that can tolerate different maintenance approaches.
- ✓ Develop practical criticality categories to guide maintenance decisions.

Connecting Failure Consequences with Maintenance Priority

- ✓ Examine how equipment failure affects operations beyond the failed component itself.
- ✓ Compare assets with similar failure frequencies but different business consequences.
- ✓ Build an Asset Criticality Matrix to prioritize maintenance attention across an asset portfolio.

Maintenance Strategy & Asset Reliability

Course Outline

✓ DAY 03

Selecting the Right Maintenance Approach

Matching Maintenance to Asset Behavior

- ✓ Distinguish reactive, time-based, usage-based, condition-based, and predictive interventions.
- ✓ Examine when scheduled maintenance is appropriate and when it may provide limited value.
- ✓ Connect maintenance choices with deterioration patterns and failure characteristics.

Making Maintenance Strategy Decisions

- ✓ Determine when to prevent, monitor, inspect, restore, replace, or allow controlled run-to-failure.
- ✓ Avoid automatically assigning intensive maintenance to every asset.
- ✓ Complete a Maintenance Strategy Selection Challenge across assets with different operating characteristics.

Maintenance Strategy & Asset Reliability

Course Outline

✓ DAY 04

Optimizing the Existing Maintenance Strategy

Challenging Current Maintenance Tasks

- ✓ Identify maintenance activities that are duplicated, ineffective, unnecessarily frequent, or poorly targeted.
- ✓ Examine whether existing tasks address credible equipment failure concerns.
- ✓ Identify missing interventions that may leave critical assets exposed.

Balancing Reliability and Maintenance Effort

- ✓ Compare maintenance effort with the operational value and reliability benefit it creates.
- ✓ Reallocate resources from low-value activities toward higher-priority asset needs.
- ✓ Conduct a Maintenance Optimization Workshop to redesign an existing maintenance program.

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Course Outline

✓ DAY 05

Sustaining Asset Reliability through Strategic Maintenance

Reviewing Strategy against Asset Performance

- ✓ Use failure history, downtime, availability, and maintenance experience to test strategy effectiveness.
- ✓ Identify assets where performance indicates that the current approach should be reconsidered.
- ✓ Adjust maintenance decisions as equipment condition and operational requirements change.

Building the Maintenance Strategy Roadmap

- ✓ Establish priorities for improving maintenance across different asset groups.
- ✓ Define responsibilities and review points for keeping strategies relevant over time.
- ✓ Produce an Asset Maintenance Strategy Roadmap linking criticality, maintenance approach, reliability priorities, and improvement actions.

Maintenance Strategy & Asset Reliability

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 7, 2027	June 11, 2027	5 days	4950.00 \$	England , London
Aug. 2, 2027	Aug. 6, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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