

Consulting and Training | Reach New Heights

Course Name

Failure Elimination & Reliability Improvement

Sector Name

Maintenance & Reliability Management

Document Type

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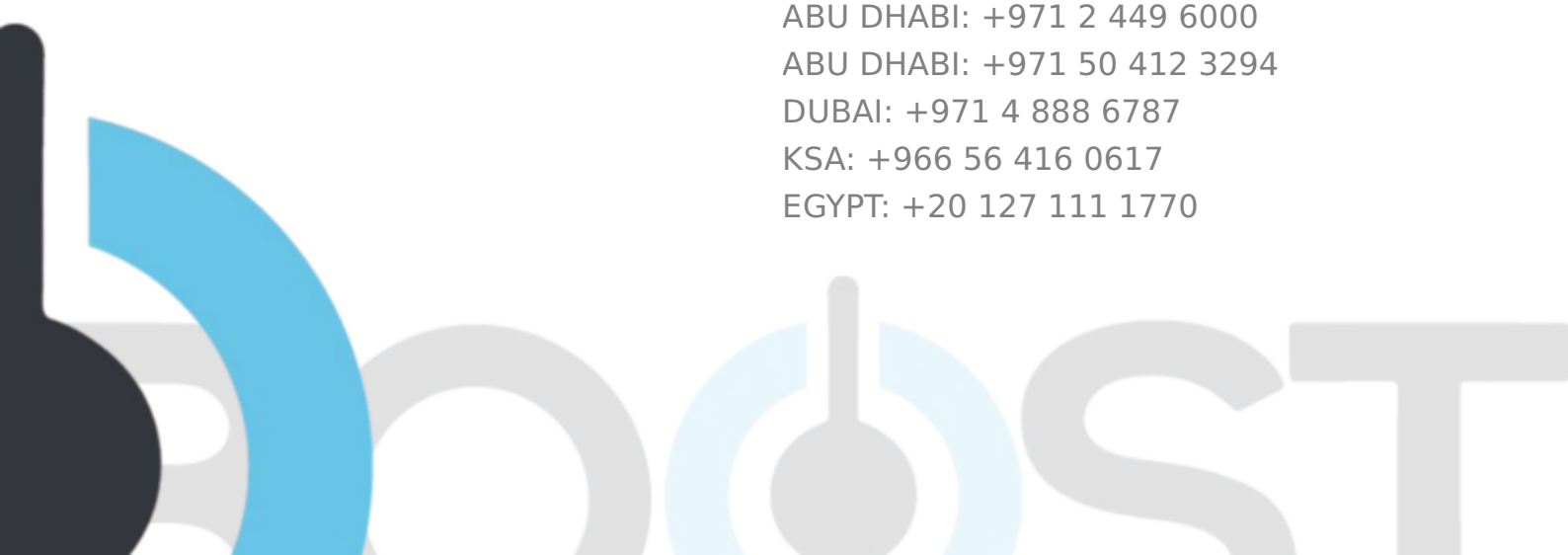
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Failure Elimination & Reliability Improvement

Course Introduction

Repeated equipment failures are among the clearest signs that maintenance effort is being consumed without permanently resolving the underlying problem. Restoring equipment to operation may solve the immediate disruption, but when the same or similar failures continue to return, organizations face recurring downtime, higher maintenance costs, production losses, and increasing pressure on technical teams. Improving reliability therefore requires a shift from repairing failures to systematically preventing their recurrence.

Boost Consulting & Training offers this course to develop a practical failure elimination approach that turns equipment problems into structured reliability improvement opportunities.

Participants learn how to identify bad actors and recurring failure patterns, reconstruct failure events, distinguish symptoms from underlying causes, investigate technical and organizational contributors, develop corrective actions, and verify whether those actions have reduced recurrence.

The main concept of this course is to break the cycle of recurring equipment problems by converting failure history into targeted actions that permanently improve reliability.

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Failure Elimination & Reliability Improvement

Target Audience

- ✓ Reliability and maintenance engineers
- ✓ Maintenance supervisors and technical specialists
- ✓ Operations and production engineers
- ✓ Asset performance and continuous improvement professionals

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Learning Objectives

- ✓ Identify recurring and high-impact equipment failures that require focused intervention.
- ✓ Use maintenance and operational history to detect failure patterns.
- ✓ Distinguish failure symptoms, mechanisms, contributing factors, and root causes.
- ✓ Structure an effective technical failure investigation.
- ✓ Apply practical cause analysis techniques to equipment failure cases.
- ✓ Develop corrective actions that address causes rather than symptoms.
- ✓ Prioritize reliability improvements according to failure impact and recurrence.
- ✓ Verify whether implemented actions have delivered sustainable reliability improvement.

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Failure Elimination & Reliability Improvement

Course Outline

✓ DAY 01

Finding the Failures Worth Eliminating

Recognizing Reliability Losses

- ✓ Distinguish isolated equipment events from recurring reliability problems.
- ✓ Examine how repeated failures affect downtime, maintenance workload, cost, and operational performance.
- ✓ Identify equipment that consumes disproportionate maintenance attention.

Detecting Failure Patterns

- ✓ Analyze work orders, breakdown records, downtime history, and maintenance observations.
- ✓ Identify recurring components, locations, operating conditions, and failure sequences.
- ✓ Build a Bad Actor Profile to prioritize equipment for reliability improvement.

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Course Outline

✓ DAY 02

Reconstructing What Really Happened

Building the Failure Story

- ✓ Establish the sequence of events before, during, and immediately after equipment failure.
- ✓ Separate verified evidence from assumptions and incomplete explanations.
- ✓ Connect operating conditions, maintenance history, and equipment behavior to the event.

Understanding How the Asset Failed

- ✓ Distinguish the visible symptom from the actual failure mechanism.
- ✓ Examine physical, operational, maintenance, and human contributors.
- ✓ Develop a Failure Evidence Map for a realistic equipment breakdown scenario.

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Course Outline

✓ DAY 03

Moving from Symptoms to Causes

Investigating Cause Relationships

- ✓ Apply structured questioning to move beyond the immediate technical explanation.
- ✓ Explore interactions between equipment condition, operating practices, maintenance activities, and work processes.
- ✓ Avoid stopping the investigation at convenient or unsupported causes.

Testing Root Cause Conclusions

- ✓ Use available evidence to confirm or challenge suspected causes.
- ✓ Distinguish root causes from contributing factors and consequences.
- ✓ Complete a Root Cause Investigation Challenge involving multiple plausible explanations for the same failure.

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Course Outline

✓ DAY 04

Designing Actions that Prevent Recurrence

Selecting Effective Corrective Actions

- ✓ Develop actions that directly address verified failure causes.
- ✓ Compare equipment modifications, maintenance changes, operating controls, and process improvements.
- ✓ Avoid corrective actions that simply increase inspections or maintenance frequency without justification.

Prioritizing Reliability Improvements

- ✓ Evaluate corrective actions according to expected reliability benefit, feasibility, cost, and urgency.
- ✓ Assign ownership and implementation requirements for selected actions.
- ✓ Build a Failure Elimination Action Plan for a recurring equipment problem.

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Course Outline

✓ DAY 05

Proving that the Failure Has Been Eliminated

Verifying Improvement Effectiveness

- ✓ Define what evidence will demonstrate that corrective actions are working.
- ✓ Monitor recurrence, downtime, failure intervals, and relevant equipment performance.
- ✓ Distinguish temporary improvement from sustained reliability change.

Creating a Failure Elimination Cycle

- ✓ Capture lessons from completed investigations for use across similar assets.
- ✓ Identify emerging bad actors before repeated failures become normalized.
- ✓ Complete a Reliability Improvement Case from failure identification through verified elimination and lessons learned.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 26, 2026	Oct. 30, 2026	5 days	4950.00 \$	England , London
Jan. 3, 2027	Jan. 7, 2027	5 days	4250.00 \$	KSA , Riyadh
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai
July 26, 2027	July 30, 2027	5 days	4250.00 \$	UAE , Dubai

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