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Course Name

Reliability Centered Maintenance for Critical Assets

Sector Name

Maintenance & Reliability Management

Document Type

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Reliability Centered Maintenance for Critical Assets

Course Introduction

Critical assets cannot be maintained effectively by applying the same preventive routines to every component or by increasing maintenance frequency whenever reliability becomes a concern. Some failures can be predicted, others require scheduled intervention, while certain failure modes may not justify preventive action at all. The real challenge is determining what each critical asset must do, how it can fail, what happens when it fails, and which maintenance response provides meaningful protection.

Boost Consulting & Training offers this course to develop a practical application of Reliability Centered Maintenance (RCM) for critical assets. The program guides participants through asset selection, functional analysis, functional failures, failure modes and effects, consequence evaluation, maintenance task selection, and implementation. Rather than treating RCM as a theoretical methodology, participants apply its decision logic to realistic equipment situations and challenge existing maintenance tasks against actual failure behavior.

The **main concept of this course** is to build maintenance requirements from the functions, failure modes, and consequences of critical assets rather than from generic maintenance routines.

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Reliability Centered Maintenance for Critical Assets

Target Audience

- ✓ Reliability and maintenance engineers
- ✓ Asset management and technical engineers
- ✓ Maintenance supervisors and planners
- ✓ Operations professionals supporting critical asset reliability

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Reliability Centered Maintenance for Critical Assets

Learning Objectives

- ✓ Explain the principles and decision logic of Reliability Centered Maintenance.
- ✓ Select appropriate critical assets for focused RCM analysis.
- ✓ Define asset functions and required performance standards.
- ✓ Identify functional failures and credible failure modes.
- ✓ Evaluate the operational consequences and significance of equipment failures.
- ✓ Select technically appropriate maintenance tasks for different failure modes.
- ✓ Determine when redesign, failure-finding, or controlled run-to-failure is more appropriate than scheduled maintenance.
- ✓ Convert RCM analysis into practical maintenance requirements and improvement actions.

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Reliability Centered Maintenance for Critical Assets

Course Outline

✓ DAY 01

Selecting the Right Assets for RCM

Defining the RCM Decision Context

- ✓ Understand the purpose of RCM and where it adds value within maintenance management.
- ✓ Distinguish RCM analysis from general preventive maintenance optimization.
- ✓ Identify situations where detailed RCM analysis may not be justified.

Selecting Critical Assets

- ✓ Assess safety, environmental, production, quality, and operational consequences.
- ✓ Prioritize assets where failure requires deeper maintenance decision analysis.
- ✓ Build an RCM Asset Selection Matrix for a mixed equipment population.

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Course Outline

✓ DAY 02

Defining What the Asset Must Do

Analyzing Asset Functions

- ✓ Define primary and supporting functions within the operating context.
- ✓ Establish measurable performance standards for critical functions.
- ✓ Recognize how operating conditions influence required asset performance.

Identifying Functional Failures

- ✓ Define complete and partial loss of required performance.
- ✓ Distinguish functional failure from the physical event that causes it.
- ✓ Develop a Function and Functional Failure Profile for a selected critical asset.

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Course Outline

✓ DAY 03

Understanding How and Why Functions Fail

Identifying Credible Failure Modes

- ✓ Determine physical events capable of causing each functional failure.
- ✓ Use history equipment and technical knowledge without limiting analysis to past failures.
- ✓ Define failure modes at a level that supports meaningful maintenance decisions.

Evaluating Failure Effects

- ✓ Describe what happens when each failure mode occurs.
- ✓ Identify warning signs, operational impact, secondary damage, and required response.
- ✓ Complete a Failure Mode and Effect Analysis for a critical equipment scenario.

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Course Outline

✓ DAY 04

Selecting the Appropriate Maintenance Response

Evaluating Failure Consequences

- ✓ Distinguish safety, environmental, operational, non-operational, and hidden consequences.
- ✓ Determine how consequence severity influences the need for proactive intervention.
- ✓ Prioritize maintenance decisions according to what happens if the failure occurs.

Applying RCM Task Selection Logic

- ✓ Evaluate condition-based, scheduled restoration, replacement, and failure-finding tasks.
- ✓ Determine when redesign or controlled run-to-failure provides a more appropriate response.
- ✓ Complete an RCM Task Selection Challenge across multiple failure modes.

Reliability Centered Maintenance for Critical Assets

Course Outline

✓ DAY 05

Converting RCM Analysis into Maintenance Action

Building the Maintenance Requirements

- ✓ Translate selected tasks into clear maintenance activities and appropriate intervals.
- ✓ Remove or revise existing tasks that do not address credible failure modes.
- ✓ Identify new maintenance requirements revealed through the analysis.

Implementing the RCM Decisions

- ✓ Integrate approved tasks into maintenance planning and work management processes.
- ✓ Review maintenance effectiveness as failure behavior and operating conditions change.
- ✓ Complete an RCM Case Analysis that converts a critical asset from functional definition through failure analysis to an optimized maintenance program.

Reliability Centered Maintenance for Critical Assets

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Nov. 16, 2026	Nov. 20, 2026	5 days	5950.00 \$	switzerland , Geneva
Jan. 3, 2027	Jan. 7, 2027	5 days	4250.00 \$	Bahrain , Manama
June 7, 2027	June 11, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 29, 2027	Sept. 2, 2027	5 days	4250.00 \$	KSA , Riyadh

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