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Course Name

Critical Spare Parts & Maintenance Readiness

Sector Name

Maintenance & Reliability Management

Document Type

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Critical Spare Parts & Maintenance Readiness

Course Introduction

A maintenance job can be correctly diagnosed, properly planned, and supported by skilled technicians, yet still fail to start or finish on time because a critical spare part is unavailable. At the same time, holding excessive quantities of every spare part increase inventory cost, ties up capital, and creates the risk of obsolete stock.

Maintenance readiness therefore depends on identifying which spares truly matter and ensuring their availability according to asset criticality, failure exposure, lead time, and operational consequence.

Boost Consulting & Training offers this course to develop a maintenance-focused approach to critical spare parts management. Rather than treating spare parts as a general inventory topic, the program connects equipment needs, maintenance plans, failure patterns, criticality, lead times, stock decisions, material readiness, and obsolescence management.

Participants learn how to balance availability and inventory exposure while protecting the organization's ability to execute maintenance when required.



The main concept of this course is to ensure that the right critical spare is available when maintenance needs it, without turning maintenance readiness into unnecessary inventory.

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Critical Spare Parts & Maintenance Readiness

Target Audience

- ✓ Maintenance and reliability engineers
- ✓ Maintenance planners and supervisors
- ✓ Spare parts and materials professionals
- ✓ Technical procurement and inventory professionals supporting maintenance operations

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Learning Objectives

- ✓ Connect spare parts availability with maintenance readiness and asset reliability.
- ✓ Distinguish critical maintenance spares from routine inventory items.
- ✓ Assess spare criticality using equipment consequence, demand, and supply factors.
- ✓ Determine appropriate stocking approaches for different types of maintenance spares.
- ✓ Evaluate lead-time and stockout exposure for critical components.
- ✓ Align spare parts requirements with planned and major maintenance activities.
- ✓ Identify and manage obsolete, slow-moving, and technically superseded spares.
- ✓ Improve coordination between maintenance, engineering, procurement, and stores.

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Critical Spare Parts & Maintenance Readiness

Course Outline

✓ DAY 01

Connecting Spare Parts with Maintenance Readiness

Understanding Spare Parts Exposure

- ✓ Examine how spare availability affects repair time, downtime, and maintenance execution.
- ✓ Distinguish operational spares, maintenance spares, consumables, and critical replacement components.
- ✓ Identify equipment dependencies where one unavailable component can delay asset restoration.

Mapping Maintenance Material Demand

- ✓ Connect spare requirements with preventive, corrective, predictive, and major maintenance work.
- ✓ Use history equipment and planned activities to understand demand patterns.
- ✓ Build a Maintenance Spare Demand Map linking assets, work types, and material requirements.

Critical Spare Parts & Maintenance Readiness

Course Outline

✓ DAY 02

Identifying the Spares that Really Matter

Assessing Spare Part Criticality

- ✓ Evaluate parts according to asset criticality, failure consequence, replaceability, and availability.
- ✓ Consider lead time and alternative sourcing when determining spare importance.
- ✓ Distinguish expensive parts from genuinely critical parts.

Prioritizing Critical Spares

- ✓ Rank components according to maintenance and operational exposure.
- ✓ Identify single-source and difficult-to-replace items requiring additional attention.
- ✓ Build a Critical Spare Parts Matrix for a mixed equipment population.

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Course Outline

✓ DAY 03

Making Smarter Stocking Decisions

Balancing Availability and Inventory

- ✓ Evaluate the consequences of holding too little or too much maintenance stock.
- ✓ Consider demand frequency, lead time, failure exposure, and replacement options.
- ✓ Select appropriate stocking approaches for different spare categories.

Managing Low-Demand Critical Parts

- ✓ Address components that are rarely required but carry severe stockout consequences.
- ✓ Compare stocking, shared inventory, supplier arrangements, and alternative sourcing options.
- ✓ Complete a Critical Spare Stocking Challenge involving cost, probability, and downtime trade-offs.

Critical Spare Parts & Maintenance Readiness

Course Outline

✓ DAY 04

Securing Materials for Maintenance Execution

Building Material Readiness

- ✓ Identify required parts early during maintenance planning.
- ✓ Reserve, verify, stage, and control materials before scheduled work begins.
- ✓ Prevent incomplete material kits from disrupting planned maintenance execution.

Managing Supply Disruption

- ✓ Respond to delayed deliveries, unavailable components, and urgent maintenance demand.
- ✓ Evaluate technical alternatives and expedited sourcing without creating uncontrolled risk.
- ✓ Run a Maintenance Readiness Simulation involving a critical repair with material constraints.

Critical Spare Parts & Maintenance Readiness

Course Outline

✓ DAY 05

Sustaining Critical Spare Availability

Managing Ageing and Obsolescence

- ✓ Identify spare parts threatened by equipment changes, supplier discontinuation, or technological obsolescence.
- ✓ Evaluate whether ageing stock should be retained, replaced, repaired, or removed.
- ✓ Coordinate technical and inventory decisions before critical components become unavailable.

Improving Spare Parts Reliability Support

- ✓ Review stockouts, emergency purchases, unused inventory, and maintenance delays for improvement opportunities.
- ✓ Strengthen coordination between maintenance, engineering, procurement, and stores.
- ✓ Develop a Critical Spare Parts Readiness Plan balancing asset protection, availability, supply exposure, and inventory efficiency.

Critical Spare Parts & Maintenance Readiness

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 14, 2026	Dec. 18, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 \$	Qatar , Doha
May 31, 2027	June 4, 2027	5 days	4950.00 \$	England , London
Aug. 2, 2027	Aug. 6, 2027	5 days	4250.00 \$	UAE , Dubai

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