



Consulting and Training | Reach New Heights

Course Name

Predictive Maintenance & Condition Intelligence

Sector Name

Maintenance & Reliability Management

Document Type

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Predictive Maintenance & Condition Intelligence

Course Introduction

Traditional maintenance decisions are often driven either by fixed schedules or by equipment failure. Yet many assets provide measurable signs of deterioration long before functional failure occurs. Changes in vibration, temperature, lubrication condition, electrical behavior, pressure, or other operating parameters can reveal developing problems and create an opportunity to intervene at the right time. The challenge is not simply collecting condition data but converting it into reliable maintenance decisions.

Boost Consulting & Training offers this course to develop a practical approach to predictive maintenance built around equipment condition and deterioration intelligence. The program explores failure development, condition indicators, monitoring techniques, data interpretation, alert and alarm logic, trend analysis, diagnostic reasoning, and intervention decisions. Participants learn how to distinguish meaningful deterioration from normal variation and use condition evidence to plan maintenance before equipment performance is lost.

The **main concept of this course** is to move maintenance decisions from fixed intervals and unexpected failures toward evidence-based intervention guided by the actual condition of the asset.

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Predictive Maintenance & Condition Intelligence

Target Audience

- ✓ Maintenance and reliability engineers
- ✓ Condition monitoring and diagnostic specialists
- ✓ Maintenance supervisors and technical professionals
- ✓ Asset performance and operations engineers

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Predictive Maintenance & Condition Intelligence

Learning Objectives

- ✓ Explain how predictive maintenance supports asset reliability and reduces unplanned intervention.
- ✓ Identify equipment deterioration patterns that can be detected before functional failure.
- ✓ Select appropriate condition indicators for different asset types and failure mechanisms.
- ✓ Distinguish the practical applications of major condition monitoring techniques.
- ✓ Interpret trends, deviations, alerts, and condition changes in maintenance data.
- ✓ Differentiate normal operating variation from meaningful signs of deterioration.
- ✓ Determine appropriate maintenance responses based on condition evidence.
- ✓ Develop a practical predictive maintenance approach for selected critical assets.

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Predictive Maintenance & Condition Intelligence

Course Outline

✓ DAY 01

Recognizing Failure Before Breakdown

Understanding the Failure Development Window

- ✓ Examine how equipment condition can deteriorate before functional failure occurs.
- ✓ Identify detectable changes that provide opportunities for planned intervention.
- ✓ Compare early detection with fixed-interval and breakdown-based maintenance responses.

Selecting Assets for Predictive Maintenance

- ✓ Evaluate asset criticality, failure behavior, detectability, and monitoring value.
- ✓ Identify equipment where condition monitoring can provide meaningful decision time.
- ✓ Build a Predictive Maintenance Opportunity Map for a mixed asset population.

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Course Outline

✓ DAY 02

Selecting the Right Condition Signals

Matching Indicators to Failure Mechanisms

- ✓ Connect vibration, temperature, lubrication, electrical, pressure, and performance changes with developing equipment problems.
- ✓ Select indicators according to the physical behavior of the asset.
- ✓ Avoid collecting measurements that do not provide actionable maintenance information.

Choosing Monitoring Techniques

- ✓ Examine practical applications of vibration analysis, thermography, oil analysis, ultrasound, and electrical condition monitoring.
- ✓ Compare periodic measurements with continuous monitoring approaches.
- ✓ Complete a Condition Monitoring Selection Challenge for different equipment and failure scenarios.

Predictive Maintenance & Condition Intelligence

Course Outline

✓ DAY 03

Turning Condition Data into Intelligence

Reading Trends and Deviations

- ✓ Interpret changes over time rather than relying on isolated measurements.
- ✓ Distinguish gradual deterioration, sudden deviation, and normal operating variation.
- ✓ Relate condition changes to load, operating mode, environment, and maintenance history.

Building Diagnostic Reasoning

- ✓ Combine multiple condition indicators to strengthen equipment diagnosis.
- ✓ Avoid premature conclusions based on a single abnormal reading.
- ✓ Analyze a Condition Intelligence Case using competing signals from a deteriorating asset.

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Course Outline

✓ DAY 04

Making the Maintenance Intervention Decision

Setting Meaningful Alert Levels

- ✓ Establish practical warning and action thresholds based on equipment behavior.
- ✓ Distinguish early warning conditions from situations requiring immediate response.
- ✓ Adjust decision thresholds as operating conditions and asset history evolve.

Determining When to Intervene

- ✓ Estimate the urgency of maintenance from deterioration rate and failure consequence.
- ✓ Compare continued monitoring, inspection, planned repair, and immediate intervention options.
- ✓ Run a Predictive Maintenance Decision Simulation Using evolving condition data and limited maintenance windows.

Predictive Maintenance & Condition Intelligence

Course Outline

✓ DAY 05

Building a Predictive Maintenance System

Connecting Condition Intelligence with Work Management

- ✓ Convert condition findings into clear maintenance notifications and planned actions.
- ✓ Coordinate intervention timing with operations, resources, materials, and equipment availability.
- ✓ Capture inspection and repair findings to improve future diagnostic decisions.

Improving Predictive Maintenance Effectiveness

- ✓ Evaluate whether monitoring activities lead to useful warnings and timely interventions.
- ✓ Identify missed detections, unnecessary alerts, and monitoring gaps that require improvement.
- ✓ Develop a Predictive Maintenance Blueprint linking critical assets, failure mechanisms, condition indicators, monitoring methods, and response actions.

Predictive Maintenance & Condition Intelligence

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 14, 2026	Dec. 18, 2026	5 days	4250.00 \$	UAE , Dubai
Feb. 1, 2027	Feb. 5, 2027	5 days	5950.00 \$	USA , Los Angeles
May 30, 2027	June 3, 2027	5 days	4250.00 \$	KSA , Jeddah
Sept. 6, 2027	Sept. 10, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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