



Consulting and Training | Reach New Heights

Course Name

Predictive Safety & Smart Risk Detection

Sector Name

Health, Safety and Environment

Document Type

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Predictive Safety & Smart Risk Detection

Course Introduction

Traditional safety management often relies on what has already happened: incidents, near misses, inspection findings, and reported unsafe conditions. Yet modern workplaces generate growing volumes of operational and safety data that can reveal changing risk patterns much earlier. The challenge is no longer simply collecting more information but recognizing which signals matter and turning them into timely preventive action.

Boost Consulting & Training has designed this course to develop a more forward-looking approach to workplace safety. Participants learn how smart monitoring technologies, connected devices, sensors, predictive indicators, and safety analytics can support earlier risk detection while maintaining sound professional judgment. The program focuses on translating data into meaningful warnings, prioritizing intervention, and avoiding the false confidence that can result from technology without effective interpretation.

The main concept of this course is to shift safety management from reacting to recorded events toward detecting emerging risk patterns and acting before conditions develop into incidents.

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Predictive Safety & Smart Risk Detection

Target Audience

- ✓ HSE and occupational safety professionals
- ✓ Operations and maintenance managers
- ✓ Risk and operational excellence professionals
- ✓ Professionals involved in safety technology and digital transformation

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Learning Objectives

- ✓ Distinguish reactive, proactive, and predictive approaches to workplace safety.
- ✓ Identify operational and safety data that can provide meaningful early indications of increasing risk.
- ✓ Understand how sensors, connected devices, wearables, and smart monitoring systems support risk detection.
- ✓ Develop relevant leading indicators for different workplace hazards and operational conditions.
- ✓ Interpret patterns, anomalies, and changes in safety data without relying solely on historical incident rates.
- ✓ Evaluate predictive alerts according to risk significance, reliability, and required response.
- ✓ Integrate smart risk detection into existing HSE processes and operational decision-making.
- ✓ Design a practical predictive safety approach that supports earlier and more targeted intervention.

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Predictive Safety & Smart Risk Detection

Course Outline

✓ Day 01

Moving from Reactive to Predictive Safety

Rethinking How Organizations See Risk

- ✓ Examining the limitations of incident-driven and lagging-indicator approaches
- ✓ Differentiating reactive evidence, proactive observations, and predictive risk intelligence
- ✓ Understanding how risk conditions develop before becoming visible safety events

Building the Predictive Safety Picture

- ✓ Mapping the operational, environmental, equipment, and workforce data available across the workplace
- ✓ Identifying data combinations that may reveal changing exposure or deteriorating conditions
- ✓ Creating a Predictive Risk Landscape for a selected workplace environment

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Course Outline

✓ Day 02

Smart Technologies for Earlier Detection

Connected Safety in the Workplace

- ✓ Exploring sensors, wearables, environmental monitors, computer vision, and connected safety devices
- ✓ Matching smart technologies to specific hazards rather than adopting technology without a defined safety need
- ✓ Understanding the limitations, reliability issues, and operational conditions affecting smart monitoring

Designing Meaningful Safety Signals

- ✓ Selecting leading indicators that provide actionable information before incidents occur
- ✓ Establishing thresholds, trigger points, and escalation levels for changing risk conditions
- ✓ Designing a Smart Safety Indicator Set for a realistic operational scenario

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Course Outline

✓ Day 03

Finding Risk Patterns in Safety Data

From Data to Risk Intelligence

- ✓ Recognizing trends, anomalies, recurring combinations, and deteriorating conditions within safety information
- ✓ Connecting inspection findings, near misses, equipment conditions, exposure data, and operational changes
- ✓ Distinguishing meaningful patterns from isolated fluctuations and misleading correlations

Interpreting Predictive Alerts

- ✓ Assessing alerts according to severity, confidence, exposure, and potential consequence
- ✓ Managing false positives, missed signals, data gaps, and conflicting information
- ✓ Running a Risk Detection Challenge to decide which emerging signals require intervention

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Course Outline

✓ Day 04

Turning Prediction into Prevention

Designing the Response to Emerging Risk

- ✓ Translating predictive warnings into proportionate preventive and operational actions
- ✓ Defining responsibilities for verification, escalation, intervention, and follow-up
- ✓ Establishing response protocols for different levels of predictive warning

Embedding Detection into Daily Operations

- ✓ Integrating predictive insights with inspections, maintenance, work planning, and operational controls
- ✓ Creating feedback loops between frontline observations and smart monitoring systems
- ✓ Testing a **Predict-Verify-Act** workflow against changing workplace scenarios

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Course Outline

✓ Day 05

Building a Predictive Safety System

Reliability, Oversight and Continuous Learning

- ✓ Reviewing prediction accuracy and learning from correct, missed, and unnecessary alerts
- ✓ Preventing overreliance on dashboards, algorithms, and automated warning systems
- ✓ Establishing oversight into data quality, technology performance, and human decision-making

Predictive Safety Implementation

- ✓ Selecting priority hazards and operations where predictive detection can deliver meaningful safety value
- ✓ Aligning technology, indicators, people, response processes, and performance measures
- ✓ Developing a **Predictive Safety Implementation Blueprint** for workplace application

Predictive Safety & Smart Risk Detection

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Dubai
April 4, 2027	April 8, 2027	5 days	4250.00 \$	Bahrain , Manama
June 7, 2027	June 11, 2027	5 days	5950.00 \$	USA , Los Angeles
Nov. 22, 2027	Nov. 26, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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