



Consulting and Training | Reach New Heights

Course Name

AI-Ready Workplace Safety

Sector Name

Health, Safety and Environment

Document Type

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AI-Ready Workplace Safety

Course Introduction

Artificial intelligence is rapidly moving from back-office applications into the operational workplace, influencing how tasks are assigned, hazards are detected, equipment is monitored, safety-related decisions are made. While these technologies can strengthen prevention, they also introduce fewer familiar risks arising from automation bias, unreliable outputs, changing human roles, reduced situational awareness, and increasingly complex interactions between people and intelligent systems.

Boost Consulting & Training has designed this course to help health and safety professionals move beyond simply adopting AI tools and develop the capability to use them safely and critically. Participants explore where AI can strengthen workplace safety, where new vulnerabilities may emerge, and how human judgment, risk controls, accountability, and workforce readiness must evolve as AI becomes embedded in everyday operations.

The main concept of this course is to prepare participants to benefit from AI-enabled safety while preventing technology from creating new blind spots, dependencies, or unmanaged workplace risks.

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Target Audience

- ✓ HSE and occupational safety professionals
- ✓ Safety, operations, and engineering managers
- ✓ Risk and compliance professionals
- ✓ Professionals involved in workplace digitalization and automation

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Learning Objectives

- ✓ Explain how AI and intelligent automation reshaping workplace safety and occupational risk are.
- ✓ Identify emerging hazards associated with AI-enabled systems, automated decisions, and changing human roles.
- ✓ Evaluate the reliability and limitations of AI-generated safety information and recommendations.
- ✓ Recognize automation bias, overreliance, skill degradation, and loss of situational awareness.
- ✓ Apply human-centered principles when integrating AI into safety-critical activities.
- ✓ Assess AI-supported safety tools before and during workplace deployment.
- ✓ Establish appropriate human oversight, escalation, accountability, and control mechanisms.
- ✓ Develop a practical approach for introducing AI into workplace safety responsibly and effectively.

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Course Outline

✓ Day 01

Understanding the AI-Enabled Workplace

How AI Is Changing Workplace Safety

- ✓ Mapping current and emerging uses of AI across safety monitoring, inspection, prediction, and operational decision-making
- ✓ Distinguishing AI assistance, intelligent automation, and autonomous functions in safety-related work
- ✓ Examining how AI changes tasks, responsibilities, exposure patterns, and traditional safety assumptions

Seeing the New Risk Landscape

- ✓ Identifying risks created when AI interacts with people, equipment, processes, and existing controls
- ✓ Exploring inaccurate outputs, hidden system limitations, unexpected behavior, and technology dependency
- ✓ Building an **AI-Safety Risk Map** for different workplace applications

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Course Outline

✓ Day 02

Human Judgment in AI-Assisted Safety

Automation Bias and Human Performance

- ✓ Understanding why people may accept automated recommendations even when warning signs suggest otherwise
- ✓ Recognizing complacency, reduced vigilance, deskilling, cognitive overload, and loss of situational awareness
- ✓ Analyzing scenarios where human intervention must override or challenge an AI-supported decision

Designing Effective Human-AI Interaction

- ✓ Defining what AI should recommend, what humans should decide, and where intervention must remain mandatory
- ✓ Designing meaningful human checkpoints for safety-critical tasks and decisions
- ✓ Applying human-factors principles to create safer interaction between workers and intelligent systems

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Course Outline

✓ Day 03

Evaluating AI Before Trusting It

Safety-Critical AI Assessment

- ✓ Evaluating an AI application according to purpose, operating environment, users, limitations, and potential consequences
- ✓ Testing whether output remains dependable under unusual, changing, or incomplete operating conditions
- ✓ Identifying failure scenarios before integrating AI into existing safety processes

From AI Output to Safe Action

- ✓ Challenging alerts, predictions, classifications, and recommendations instead of accepting them automatically
- ✓ Establishing verification and escalation rules when AI confidence or workplace evidence is uncertain
- ✓ Conducting an **AI Safety Decision Challenge** using realistic operational scenarios

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Course Outline

✓ Day 04

Integrating AI into Safety Operations

Building AI into Existing Safety Controls

- ✓ Integrating AI appropriately into inspections, hazard reporting, monitoring, permit processes, and incident prevention
- ✓ Preventing digital tools from weakening established controls or creating parallel safety processes
- ✓ Defining fallback arrangements when AI systems become unavailable, unreliable, or contradictory

Preparing People for AI-Enabled Safety

- ✓ Developing the AI literacy required by safety professionals, supervisors, and frontline users
- ✓ Building confidence to question technology while avoiding unnecessary resistance to useful innovation
- ✓ Designing role-specific guidance for safe and responsible use of AI-supported safety tools

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Course Outline

✓ Day 05

Responsible AI Safety & Future Readiness

Oversight, Accountability and Control

- ✓ Clarifying accountability when safety decisions involve workers, managers, technical teams, vendors, and AI systems
- ✓ Establishing boundaries, authorization levels, reviewing mechanisms, and records for safety-critical AI use
- ✓ Monitoring unintended consequences and emerging risks after deployment

Creating an AI-Ready Safety Framework

- ✓ Prioritizing AI opportunities according to safety value, operational readiness, and level of risk
- ✓ Developing practical principles for responsible adoption, human oversight, continuous review, and improvement
- ✓ Building a **Workplace AI Safety Readiness Roadmap** for application after the course

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 14, 2026	Dec. 18, 2026	5 days	4250.00 \$	UAE , Dubai

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