



Advanced Safety Management Methods: Risk, Leadership & Compliance Mastery

6 – 10 December 2026
Chicago





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Overview

Operational complexity and evolving regulatory demands require organizations to move beyond reactive incident tracking toward structured risk governance. This programme delivers advanced safety management methods to strengthen organizational safety governance, hazard mitigation, and compliance frameworks across high-hazard operations. Participants examine globally recognized frameworks including ANSI/ASSP Z10 and ISO 45001 to design proactive safety management systems, establish robust safety performance metrics, and foster accountability. The curriculum integrates behavioral observations, incident reporting and root cause analysis, and high-reliability operational strategies to reinforce systemic safety culture. This course is delivered by Agile Leaders Training Center.

Who Should Attend

- Health and safety managers responsible for governance and organizational safety performance.
- Operations and maintenance supervisors directing field personnel in high-hazard environments.
- Risk and compliance officers overseeing regulatory adherence and internal audits.
- Human resources and operational training leaders implementing safety development programmes.
- Senior executives accountable for operational resilience and institutional safety strategy.

Departments and Industries

This course serves cross-functional management teams operating across high-hazard and capital-intensive sectors.

- Health, Safety, and Environment departments across heavy industry.
- Operations, Maintenance, and Asset Management divisions.
- Enterprise Risk Management and Corporate Governance units.
- Quality Assurance and Operational Compliance teams.
- Aviation, energy, manufacturing, logistics, and engineering construction sectors.

Learning Objectives

By the end of this course, participants will be able to:



- Design and deploy systematic Safety Management Systems aligned with ANSI/ASSP Z10 and ISO 45001.
- Conduct rigorous safety risk assessment workflows utilizing bowtie analysis, hazard evaluations, and risk matrices.
- Formulate leading and lagging safety performance metrics to track operational reliability.
- Execute systematic incident reporting and root cause analysis to eliminate recurring operational failures.
- Implement behavior-based safety initiatives that promote personal accountability and psychological safety.
- Establish non-punitive reporting mechanisms that encourage front-line hazard communication.
- Apply structured compliance auditing techniques to ensure continuous procedural alignment.
- Integrate safety priorities into corporate strategic planning and governance scorecards.

Course Agenda

Day 1: Safety Leadership Commitment and Systems Frameworks

- Core concepts of advanced safety management methods and systematic risk governance
- Alignment with ANSI/ASSP Z10 and ISO 45001 management architecture
- Leadership influence on organizational safety culture and workforce accountability
- Structural maturity levels of formal Safety Management Systems
- Defining institutional roles, operational responsibilities, and procedural ownership
- Safety policy formulation and alignment with broader business objectives
- Practical reflection on leadership drivers for safety implementation

Day 2: Hazard Identification, Risk Assessment, and Legal Governance

- Hazard identification tools: Job Safety Analysis, HAZOP, and Bowtie models
- Risk prioritization utilizing severity, exposure, and probability scoring
- Structured incident reporting and root cause analysis methodologies
- Statutory compliance requirements and operational legal obligations
- Advanced hazard mitigation strategies and the hierarchy of risk controls
- Integrating risk-based thinking into enterprise decision-making
- Practical reflection on connecting risk evaluation to operational decisions

Day 3: Behavioral Safety, Performance Metrics, and Audit Systems

- Distinguishing leading and lagging indicators in organizational reporting
- Principles of behavior-based safety within daily operations
- Cultivating and maintaining non-punitive reporting environments
- Constructing safety performance metrics, operational dashboards, and analytics
- Compliance auditing methodologies for verifying procedural adherence
- Developing closed-loop feedback mechanisms for management review
- Practical reflection on measuring safety performance outcomes



Day 4: Operational Readiness, Engagement, and Governance

- Structuring internal safety communication protocols and field engagement
- Facilitating cross-functional safety committees and workforce participation
- Safety coaching techniques for frontline supervisors and operational leaders
- Emergency preparedness planning and business continuity scenario testing
- Governance frameworks in high-reliability operational settings
- Deploying predictive leading indicators to identify operational drift
- Practical reflection on proactive readiness and emergency management

Day 5: Strategic Integration, Continual Improvement, and Sustainability

- Embedding safety governance into corporate strategic planning cycles
- Establishing measurable safety objectives using SMART criteria
- Aligning safety outcomes with sustainability reporting and corporate values
- Drafting safety performance improvement plans and corrective action roadmaps
- Participant presentations on applied safety leadership initiatives
- Sustaining continuous improvement and procedural resilience
- Consolidation of core methodologies and operational action planning

Practical Exercises

Participants engage in structured exercises designed to build practical safety leadership tools.

- Suggested activity: Construct an operational risk matrix and bowtie model for a critical facility task.
- Suggested activity: Design a non-punitive incident reporting workflow with clear escalation triggers.
- Suggested activity: Develop a balanced scorecard incorporating leading safety performance metrics.
- Suggested activity: Audit an operational procedure using ANSI/ASSP Z10 verification criteria.

FAQs

What specific qualifications or prerequisites are needed before enrolling in the course?

There are no formal prerequisites. However, the syllabus is designed for professionals with operational responsibilities in occupational safety, operations management, or risk governance.

How long is each daily session and what is the total course duration?

Sessions run for four to five hours each day across five days, providing twenty to twenty-five hours of structured instruction, interactive case studies, and practical workshops.



What is the difference between proactive safety management and reactive safety reporting?

Proactive safety management uses risk assessments, audits, and leading performance metrics to eliminate hazards before incidents happen. Reactive safety reporting reviews past incidents through investigations to implement corrective controls.

Conclusion

Participants return to their organizations equipped with structured methodologies to elevate risk management, lead cultural transformation, and maintain regulatory compliance. By aligning operational practices with international standards, safety leaders protect organizational assets and build resilient operating cultures.