

Course No. 1966

HSE Risk Management & Compliance Strategies Training Course

HEALTH, SAFETY & ENVIRONMENT MANAGEMENT
HEALTH, SAFETY, ENVIRONMENT & SUSTAINABILITY

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The HSE Risk Management & Compliance Strategies Training Course provides a comprehensive and practical framework for identifying, assessing, controlling, and monitoring health, safety, and environmental risks while strengthening organizational compliance. The course examines how effective HSE risk management can support safer operations, regulatory readiness, operational resilience, and sustainable organizational performance.

Participants will explore the complete HSE risk management cycle, from hazard identification and risk assessment through risk treatment, control implementation, monitoring, review, and continual improvement. Particular emphasis is placed on risk-based thinking, hierarchy of controls, operational risk management, environmental aspects and impacts, contractor risks, emergency preparedness, and the integration of HSE risks into operational and management decisions.

The program also addresses HSE compliance strategies, including regulatory obligations, internal requirements, standards, policies, procedures, compliance evaluation, documentation, evidence management, reporting, and corrective actions. Participants will learn how to establish practical compliance mechanisms that help organizations identify gaps, prioritize exposures, demonstrate conformity, and respond effectively to changing legal and operational requirements.

Through practical exercises, risk assessment scenarios, compliance case studies, control effectiveness evaluations, and management simulations, participants will develop the capability to build risk-based HSE strategies, strengthen compliance programs, improve control effectiveness, and establish sustainable processes for managing HSE risks across operations, projects, facilities, and contractors.

Objectives

- By the end of the course, participants will be able to:
- Explain the principles and strategic role of HSE risk management and compliance.
- Identify workplace, process, environmental, operational, and organizational HSE hazards.
- Apply systematic methodologies for HSE risk identification and assessment.
- Evaluate risk likelihood, consequences, exposure, and overall significance.
- Apply the hierarchy of controls to develop effective risk treatment strategies.

- Assess the effectiveness of existing HSE controls and identify control gaps.
- Develop risk-based HSE compliance strategies aligned with organizational requirements.
- Evaluate regulatory obligations, internal standards, policies, and operational requirements.
- Establish practical mechanisms for monitoring and demonstrating HSE compliance.
- Analyze HSE incidents, nonconformities, and recurring deficiencies from a risk perspective.
- Strengthen contractor and third-party HSE risk and compliance management.
- Integrate emergency preparedness and operational resilience into HSE risk planning.
- Develop meaningful HSE risk and compliance indicators.
- Improve management reporting and escalation of significant HSE exposures.
- Design corrective and preventive actions that address underlying risk causes.
- Establish continual improvement mechanisms for HSE risk management and compliance.

Who Should Attend

This course is designed for HSE managers, health and safety professionals, environmental specialists, HSE risk professionals, compliance officers, auditors, inspectors, and personnel responsible for managing workplace and environmental risks.

It is also suitable for operations managers, project managers, department heads, supervisors, engineering and maintenance professionals, quality and risk management specialists, regulatory affairs personnel, emergency response teams, contractor management professionals, and senior managers responsible for operational assurance and organizational compliance.

The program is particularly relevant to organizations operating in oil and gas, petrochemicals, energy, utilities, construction, manufacturing, engineering, transportation, logistics, mining, infrastructure, government, and other high-risk operational environments.

Learning Outcomes

- Upon completion of the course, participants will be able to:
- Build structured HSE risk profiles for operations, projects, facilities, and activities.
- Conduct effective hazard identification and risk assessments.

- Prioritize HSE risks according to their potential consequences and organizational significance.
- Select appropriate controls based on the hierarchy of controls.
- Evaluate whether existing HSE controls are adequately designed and effectively implemented.
- Identify weaknesses in HSE management systems and operational practices.
- Map regulatory and internal HSE obligations to applicable processes and controls.
- Develop compliance registers and monitoring mechanisms appropriate to organizational activities.
- Evaluate evidence of HSE conformity and identify compliance gaps.
- Establish risk-based inspection, monitoring, and assurance priorities.
- Assess HSE risks associated with contractors, suppliers, and third parties.
- Use HSE performance and risk indicators to identify emerging exposures.
- Develop corrective actions that address systemic and underlying causes.
- Communicate significant HSE risks and compliance issues effectively to management.
- Support emergency preparedness and operational resilience through risk-based planning.
- Develop an integrated HSE risk management and compliance improvement roadmap.

Course Outline

DAY 01

HSE Risk Management Fundamentals and Risk-Based Thinking

- Principles and objectives of HSE risk management.
- The relationship between HSE risk, operational performance, and business objectives.
- HSE risk management frameworks and governance structures.
- Hazard, risk, exposure, consequence, and control concepts.
- Categories of occupational health and safety hazards.
- Environmental aspects, impacts, and environmental risks.
- Process and operational risk considerations.
- Risk ownership, accountability, and responsibilities.
- Risk-based thinking in daily operations and management decisions.
- Establishing an organizational HSE risk management cycle.

DAY 01 — CONTINUED

PRACTICAL APPLICATION

Develop a preliminary HSE risk profile for a selected workplace, facility, or operational process.

DAY 02**Hazard Identification and HSE Risk Assessment**

- Systematic hazard identification methodologies.
- Workplace and task-based risk assessment.
- Process and activity-based risk assessment.
- Job safety and operational risk analysis.
- Evaluating likelihood, consequence, exposure, and risk levels.
- Risk matrices and risk-ranking methodologies.
- Identifying critical and intolerable HSE risks.
- Environmental risk assessment and significant environmental aspects.
- Human factors and behavioral contributors to risk.
- Managing change-related HSE risks.
- Documenting risk assessments and maintaining risk registers.

PRACTICAL APPLICATION

Conduct a comprehensive HSE risk assessment for a high-risk operational activity and develop a prioritized risk register.

DAY 03**Risk Controls, Compliance and Regulatory Management**

- Principles of the hierarchy of controls.
- Elimination, substitution, engineering, administrative, and personal protective controls.
- Evaluating control effectiveness and control reliability.
- Critical controls and control verification.
- HSE policies, procedures, standards, and operational requirements.

DAY 03 — CONTINUED

- Identifying applicable legal and regulatory obligations.
- Developing and maintaining HSE compliance registers.
- Compliance evaluation and gap assessment.
- Evidence management and compliance documentation.
- Managing nonconformities and regulatory findings.
- Corrective and preventive action planning.

PRACTICAL APPLICATION

Evaluate an existing HSE control framework and compliance register, identify gaps, and develop prioritized improvement actions.

DAY 04

Contractor Risk, Monitoring and HSE Performance

- Contractor and third-party HSE risk management.
- Prequalification and HSE due diligence.
- Defining HSE requirements in contracts and work scopes.
- Monitoring contractor HSE performance.
- Risk-based inspections and assurance activities.
- HSE audits and compliance verification.
- Leading and lagging HSE performance indicators.
- Risk and compliance indicators.
- Trend analysis and early warning mechanisms.
- Incident and near-miss data as sources of risk intelligence.
- Management reporting and escalation of significant exposures.

PRACTICAL APPLICATION

Develop a contractor HSE risk and compliance monitoring framework with performance indicators and escalation criteria.

DAY 05

HSE Compliance Strategy, Governance and Continual Improvement

- Developing an integrated HSE risk and compliance strategy.
- Aligning HSE risk priorities with organizational objectives.
- HSE governance, accountability, and management oversight.
- Risk-based compliance planning and assurance.
- Emergency preparedness and response from a risk perspective.
- Operational resilience and continuity of critical HSE controls.
- Incident learning and organizational knowledge management.
- Root cause analysis and systemic corrective actions.
- HSE management review and performance evaluation.
- Developing HSE improvement priorities and implementation plans.
- Strengthening proactive HSE culture and risk ownership.
- Sustaining compliance and continual improvement.

FINAL WORKSHOP

Develop an integrated HSE Risk Management & Compliance Strategy for a high-risk organization, including risk identification, assessment, control measures, regulatory obligations, compliance monitoring, performance indicators, governance mechanisms, corrective actions, and a continual improvement roadmap.

Register or Request More Information

Course page: <https://quest-training.com/courses/hse-risk-management-compliance-strategies-training-course>

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