

Course No. 1672

Industrial Safety Management & HSE Excellence Training Course

INDUSTRIAL SAFETY & HSE
INDUSTRIAL ENGINEERING, MAINTENANCE & OPERATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Industrial Safety Management & HSE Excellence Training Course provides a comprehensive and practical framework for strengthening workplace safety, health, environmental performance, and operational risk management across industrial organizations. The program is designed to help managers, supervisors, HSE professionals, and operational leaders establish effective systems for identifying hazards, controlling risks, improving safety performance, and building a proactive HSE culture.

Effective industrial safety management requires more than compliance with procedures and regulations. Organizations must integrate safety into operational planning, leadership practices, workforce behavior, contractor management, emergency preparedness, maintenance, and continuous improvement. This course provides participants with practical approaches for managing these elements as part of an integrated HSE management framework.

The program addresses key areas of industrial safety and HSE management, including hazard identification, risk assessment, workplace inspections, incident prevention, permit-to-work systems, contractor safety, emergency preparedness, occupational health, environmental controls, safety leadership, and HSE performance measurement. Participants will examine how management systems and operational practices can work together to reduce exposure to hazards and improve organizational resilience.

Particular emphasis is placed on developing a strong safety culture supported by leadership accountability, employee engagement, effective communication, behavioral awareness, and systematic performance monitoring. Participants will learn how to identify weaknesses in existing HSE practices, prioritize improvement opportunities, develop corrective actions, and use leading and lagging indicators to monitor progress.

Through practical exercises, industrial case studies, workplace scenarios, inspections, risk assessment activities, and HSE improvement workshops, participants will develop the ability to evaluate safety performance and implement practical improvements. The Industrial Safety Management & HSE Excellence Training Course supports organizations seeking to improve workplace safety, operational reliability, environmental responsibility, and overall HSE performance.

Objectives

- Analyze the fundamental principles of industrial safety management and integrated HSE systems.
- Assess workplace and operational hazards and determine appropriate risk control priorities.
- Apply structured risk assessment techniques to identify, evaluate, and control industrial risks.
- Evaluate the effectiveness of existing safety procedures, controls, inspections, and preventive measures.
- Develop practical strategies for strengthening safety leadership and organizational safety culture.
- Improve workplace inspection and observation processes to identify unsafe conditions and behaviors.
- Apply effective approaches to incident prevention, investigation, and corrective action management.
- Evaluate contractor and subcontractor HSE performance and establish appropriate control requirements.
- Develop emergency preparedness and response arrangements for industrial incidents and critical events.
- Assess occupational health and environmental risks associated with industrial activities.
- Develop leading and lagging HSE performance indicators to monitor organizational performance.
- Implement a practical HSE excellence improvement plan based on identified risks, performance gaps, and organizational priorities.

Who Should Attend

This training course is designed for HSE managers and specialists, industrial safety managers, safety engineers, occupational health professionals, environmental specialists, operations managers, maintenance managers, facility managers, production supervisors, technical managers, and professionals responsible for workplace safety and operational risk control.

The program is particularly relevant to professionals working in oil and gas, petrochemicals, energy, manufacturing, construction, engineering, utilities, transportation, infrastructure, and other industrial environments. It is also suitable for government entities, ministries, public sector organizations, and large corporations responsible for managing industrial facilities, field operations, contractors, and workplace risks.

The course will also benefit executives, department heads, project managers, supervisors, and decision makers responsible for HSE governance, operational performance, compliance, risk management, workforce protection, and environmental performance. It provides a practical framework for connecting leadership decisions with day-to-day safety performance and continuous HSE improvement.

Learning Outcomes

- Explain the principles of industrial safety management and integrated HSE performance.
- Identify workplace, process, equipment, environmental, and operational hazards.
- Conduct structured risk assessments and determine appropriate risk control measures.
- Evaluate the effectiveness of existing safety barriers, procedures, and preventive controls.
- Apply the hierarchy of controls to reduce workplace and operational risks.
- Conduct effective workplace safety inspections and identify opportunities for improvement.
- Apply structured approaches to incident prevention, investigation, root cause analysis, and corrective action.
- Evaluate contractor and subcontractor HSE risks and establish appropriate monitoring and control arrangements.
- Develop practical emergency preparedness and response measures for industrial operations.
- Assess occupational health and environmental aspects associated with industrial activities.
- Develop meaningful HSE performance indicators and use them to monitor trends and identify performance gaps.
- Prepare an actionable HSE excellence improvement plan with defined priorities, responsibilities, measures, and implementation activities.

Course Outline

DAY 01

Industrial Safety Management & HSE Foundations

- Principles and objectives of industrial safety management
- Structure and key elements of integrated HSE management systems
- Safety responsibilities, accountability, and management roles

DAY 01 — CONTINUED

- Relationship between safety performance, operational reliability, productivity, and organizational resilience

PRACTICAL APPLICATION

Assess an industrial workplace scenario and identify major HSE risks, management weaknesses, and improvement priorities

DAY 02

Hazard Identification, Risk Assessment & Control

- Hazard identification methods for industrial workplaces
- Risk assessment principles and risk prioritization
- Hierarchy of controls and selection of effective risk reduction measures
- Workplace inspections, safety observations, and control verification

PRACTICAL APPLICATION

Conduct a workplace risk assessment and develop appropriate control measures for identified hazards

DAY 03

Incident Prevention, Investigation & Contractor Safety

- Incident prevention strategies and proactive safety management
- Incident investigation, causal analysis, and corrective action management
- Contractor and subcontractor HSE management
- Safety communication, workforce engagement, and behavioral safety

PRACTICAL APPLICATION

Analyze an industrial incident and develop corrective actions while evaluating contractor and organizational contributing factors

DAY 04

Emergency Preparedness, Occupational Health & Environmental Management

- Emergency preparedness and industrial emergency response planning
- Fire, chemical release, equipment failure, and other emergency scenarios
- Occupational health risks and workplace exposure management
- Environmental aspects, pollution prevention, waste management, and operational environmental controls

PRACTICAL APPLICATION

Develop an integrated HSE emergency response scenario covering personnel protection, operational control, communication, and environmental considerations

DAY 05

HSE Performance, Leadership & Operational Excellence

- HSE leading and lagging indicators and performance measurement
- Safety leadership, accountability, communication, and organizational culture
- HSE audits, management reviews, corrective action tracking, and continuous improvement
- Building an HSE excellence framework aligned with operational and organizational priorities

FINAL WORKSHOP

Develop a comprehensive HSE excellence improvement plan covering risk priorities, safety initiatives, performance indicators, responsibilities, corrective actions, and implementation priorities

Register or Request More Information

Course page: <https://quest-training.com/courses/industrial-safety-management-hse-excellence-training-course>

Website: <https://quest-training.com>

Email: info@quest-training.com

Phone: +905016771440