Strategic HSE and Operational Risk Management Training Course



07 - 11 Dec 2026

Cairo

3700 € (Per Person)

Ref: #GRC1461_259665

Course Introduction / Overview:

This comprehensive training course provides an integrated framework for mastering Health, Safety, and Environment (HSE) compliance alongside robust operational risk management. In today's complex industrial landscape, a reactive approach to safety is insufficient; organizations must proactively identify hazards, assess risks, and implement controls to ensure operational resilience and sustainability. This program moves beyond basic regulatory checklists to instill a deep understanding of the principles that underpin a world-class safety culture. Drawing on foundational concepts from experts like James Reason, particularly his work on organizational accidents detailed in his book "Managing the Risks of Organizational Accidents," participants will explore how human factors and systemic failures contribute to incidents. BIG BEN Training Center has designed this course to equip professionals with the strategic tools to build and lead effective HSE management systems, ensuring not only legal compliance but also the protection of people, assets, and the environment. The curriculum is structured to bridge the gap between theoretical knowledge and practical application, enabling delegates to drive tangible improvements in safety performance and operational excellence within their organizations.

Target Audience / This training course is suitable for:

- HSE Managers, Advisors, and Officers.
- Operations Managers and Supervisors.
- Risk Management Professionals and Analysts.
- Compliance Officers and Managers.
- Project Managers and Engineers.
- Facility and Plant Managers.
- Quality Assurance and Control Managers.
- Corporate Governance and Audit Professionals.
- Team Leaders and Department Heads.
- Anyone with responsibility for workplace safety and operational integrity.

Target Sectors and Industries:

- Oil and Gas.
- Construction and Engineering.
- Manufacturing and Industrial Production.
- Energy and Utilities.
- Transportation and Logistics.
- Healthcare and Pharmaceuticals.
- Mining and Extraction.
- Aviation and Maritime.
- Governmental agencies and public sector bodies.
- Telecommunications and Technology.

Target Organizations Departments:

- Health, Safety, and Environment (HSE).
- Operations and Production.
- Risk Management.
- Compliance and Legal.
- Project Management.
- Engineering and Maintenance.
- Quality Assurance (QA).
- Procurement and Supply Chain.
- Human Resources.
- Internal Audit.

Course Offerings:

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

- Develop and implement an integrated HSE and operational risk management framework.
- Conduct comprehensive hazard identification and risk assessments using various methodologies.
- Interpret and apply key national and international HSE regulations and standards.
- Design effective risk control and mitigation strategies based on the hierarchy of controls.
- Lead thorough incident investigations and perform root cause analysis.
- Develop and test robust emergency response and crisis management plans.
- Foster a proactive and positive safety culture throughout the organization.
- Establish key performance indicators (KPIs) to monitor and measure HSE performance.
- Conduct effective HSE audits and inspections to ensure continuous improvement.
- Align HSE objectives with the overall strategic goals of the business.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can immediately apply their learning in the workplace. We move beyond traditional lectures to create a dynamic learning environment that fosters collaboration and critical thinking. The course heavily utilizes real-world case studies and industry-specific scenarios to illustrate key concepts of HSE compliance and operational risk. Participants will engage in group discussions, workshops, and practical exercises that challenge them to solve complex safety and risk-related problems. Expert-led facilitation ensures that sessions are lively and that theoretical knowledge is consistently linked to practical application. A significant portion of the training is dedicated to hands-on activities, such as developing a risk assessment matrix, outlining an incident investigation report, and creating a safety audit checklist. This immersive approach, combined with continuous feedback and peer-to-peer learning, guarantees a comprehensive understanding of the subject matter and builds the confidence needed to lead HSE initiatives effectively.

Course Agenda (Course Units):

Unit One: Foundations of HSE and Operational Risk Management

- Introduction to Health, Safety, and Environment (HSE) principles.
- The strategic importance of integrating HSE with operational risk.
- Understanding key legal and regulatory frameworks.
- Overview of international standards like ISO 45001 and ISO 31000.
- Defining risk appetite and tolerance within an organization.
- Roles and responsibilities for HSE and risk management.
- The financial and reputational impact of HSE failures.

Unit Two: Hazard Identification and Risk Assessment

- Systematic processes for hazard identification (HAZID).
- Qualitative and quantitative risk assessment techniques.
- Job Safety Analysis (JSA) and Task Risk Assessment (TRA).
- Introduction to advanced methods like HAZOP studies.
- Developing and using a risk assessment matrix.
- Documenting and communicating risk assessment findings.
- Prioritizing risks for effective control and mitigation.

Unit three: Implementing Controls and Ensuring Compliance

- The hierarchy of risk control measures.
- Engineering, administrative, and personal protective equipment (PPE) controls.
- Process Safety Management (PSM) fundamentals.
- Management of Change (MOC) procedures.
- Contractor safety management and oversight.
- Ensuring environmental compliance and sustainability.
- Developing safe systems of work and permit-to-work procedures.

Unit Four: Incident Management and Emergency Preparedness

- Establishing an effective incident reporting system.
- Techniques for incident investigation and evidence gathering.
- Root Cause Analysis (RCA) methodologies (e.g., 5 Whys, Fishbone).
- Writing effective investigation reports and recommendations.
- Developing comprehensive emergency response plans.
- Conducting drills and exercises to test preparedness.
- Crisis management and business continuity principles.

Unit Five: Leadership, Culture, and Continuous Improvement

- The role of leadership in driving safety performance.
- Understanding and influencing safety culture.
- Principles of Behavioral Based Safety (BBS).
- Conducting effective HSE audits and inspections.
- Setting Key Performance Indicators (KPIs) for HSE.
- The process of management review and strategic planning.
- Fostering a culture of continuous improvement in HSE.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Beyond regulatory compliance, how can an organization quantitatively measure the return on investment of a deeply embedded safety culture?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by adopting a truly integrated and strategic perspective on safety and risk, moving beyond the conventional siloed approach. While many programs focus solely on regulatory compliance, this training emphasizes the critical link between a robust safety culture, operational excellence, and long-term business sustainability. We delve into the psychological and organizational dynamics of risk, exploring how leadership behaviors and systemic factors shape safety outcomes. The curriculum is uniquely structured to build strategic capabilities, enabling participants not just to manage existing HSE systems but to design, lead, and continuously improve them. Rather than simply listing tools, we focus on the critical thinking required to select and apply the right risk assessment and investigation methodologies for specific operational contexts. The course content is enriched with advanced concepts in process safety, human factors, and organizational resilience, providing a depth of knowledge that empowers participants to address complex, non-routine risks and champion a proactive, world-class safety environment within their organizations.