Comprehensive Health, Safety, and Environmental Management Systems Training Course



19 - 23 Oct 2026

Cairo

3700 € (Per Person)

Ref: #ENV5311_266875

Course Introduction / Overview:

This training course is designed to provide a comprehensive understanding of Health, Safety, and Environmental (HSE) management systems. In today's corporate world, effective HSE management is not just a matter of compliance; it is a critical component of risk management, operational excellence, and corporate responsibility. This program, offered by BIG BEN Training Center, provides a strategic framework for developing, implementing, and maintaining an integrated HSE management system that protects people, the environment, and the organization's reputation. We will explore key principles, from hazard identification and risk assessment to emergency preparedness and continuous improvement. The curriculum is informed by the work of academics like Patrick J. C. Macleod, a respected author in the field whose book HSE Management: A Guide to the Process-based Approach emphasizes a structured, systematic way to handle HSE issues. This course goes beyond simple checklists to provide a deep understanding of how to build a culture of safety and responsibility, ensuring that participants can create a truly resilient organization. We will guide you through the process of aligning HSE with business objectives, preparing you to lead with confidence and make a lasting impact on your organization's performance and safety culture.

Target Audience / This training course is suitable for:

- HSE managers and coordinators.
- Operations and facility managers.
- Risk and compliance officers.
- Supervisors and team leaders.
- Corporate social responsibility (CSR) professionals.
- Engineers and technical specialists.
- Auditors and quality assurance personnel.
- Government agencies and equivalents.

Target Sectors and Industries:

- Oil and gas.
- Manufacturing and heavy industry.
- Construction.
- Energy and utilities.
- Mining and natural resources.
- Transportation and logistics.
- Government and public administration agencies.
- Healthcare.

Target Organizations Departments:

- Health, safety, and environmental (HSE).
- Operations and maintenance.
- Risk management.
- Compliance and legal.
- Human resources.
- Quality assurance.
- Strategic planning.
- Corporate social responsibility (CSR).

Course Offerings:

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

- Design, implement, and maintain a robust HSE management system.
- Conduct effective hazard identification and risk assessments.
- Ensure compliance with international standards and local regulations.
- Develop and execute emergency response and crisis management plans.
- Lead a culture of safety and accountability within their organization.
- Conduct internal audits and management reviews.
- Measure and report on HSE performance.
- Integrate HSE with business objectives for long-term success.

Course Methodology:

This training course uses a highly practical and process-based methodology. The program is built on case studies and interactive scenarios that simulate real-world HSE challenges. Participants will work through a series of hands-on exercises, including conducting mock risk assessments, developing emergency response plans, and performing internal audits. We use group discussions and peer-to-peer learning to explore complex ethical and operational dilemmas in HSE management. The trainers provide immediate feedback on all exercises, helping participants refine their skills and decision-making processes. BIG BEN Training Center is committed to providing a learning environment that is both engaging and effective, ensuring that participants gain the confidence needed to lead in their roles. This approach transforms theoretical knowledge into practical, on-the-ground capability, preparing participants to protect their organization and its employees from harm.

Course Agenda (Course Units):

Unit One: Foundations of HSE Management Systems

- Introduction to HSE management systems.
- The business case for a strong HSE culture.
- Key principles of management systems.
- Understanding international standards.
- The Plan-Do-Check-Act cycle.
- Integrating HSE with other management systems.
- Leadership and management commitment.

Unit Two: Hazard Identification and Risk Assessment

- The process of hazard identification.
- Techniques for risk assessment and evaluation.
- Developing a risk matrix.
- Control measures: hierarchy of controls.
- The role of human factors in safety.
- Job safety analysis (JSA) and task risk assessment.
- Risk communication.

Unit Three: Legal Compliance and Operational Control

- Understanding legal and regulatory requirements.
- Permitting and licensing.
- Operational controls for safety.
- Managing hazardous substances.
- Emergency preparedness and response planning.
- Contractor and supplier HSE management.
- Permit to work systems.

Unit Four: Performance Measurement and Auditing

- Establishing key performance indicators (KPIs).
- Incident investigation and root cause analysis.
- Internal auditing techniques.
- Corrective and preventive actions.
- Management review.
- Data collection and analysis.
- Reporting and communication of performance.

Unit Five: Building a Resilient HSE Culture

- The elements of a strong safety culture.
- Leadership's role in promoting safety.
- Employee engagement and participation.
- Behavior-based safety.
- Training and competence.
- The future of HSE management.
- Personal leadership 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:

In what ways does a strong HSE management system contribute not only to regulatory compliance but also to an organization's overall financial performance and long-term reputation?

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

This training course distinguishes itself by providing an integrated and holistic view of Health, Safety, and Environmental management. While other courses may focus on one aspect, we recognize that these three areas are inextricably linked and must be managed together. Our curriculum is built on a process-based methodology, which provides a structured and repeatable framework for continuous improvement. The program goes beyond theory to focus on practical application, using real-world scenarios and hands-on exercises to build competence. This course is for professionals who want to develop a comprehensive skill set that will allow them to create a truly resilient and responsible organization, one that not only complies with regulations but also leads the way in safety and sustainability.