

Introduction

The worldwide integration of health, safety, and environmental management systems into broader business management practices has transformed how industries manage workplace safety. Instead of relying solely on prescriptive legislation and rigid standards, organizations are now embracing a proactive approach to risk management that is based on structured and systematic risk assessments.

This training program on safety management systems provides participants with practical, hands-on experience in applying advanced safety management principles and techniques across different industries. The course incorporates reactive, active, and proactive performance measurement against defined targets, all guided by recognized best practices.

Participants will also discover how advanced training in safety management can strengthen their professional capabilities and enable them to make substantial contributions to organizational safety, health, and overall well-being.

Understanding Safety Management System Training

For professionals seeking to enhance their expertise in safety management without the burden of long-distance travel, this program offers a convenient and accessible solution. Participants gain essential knowledge and practical skills that can be applied within their own regional and organizational contexts, ensuring immediate and relevant implementation of safety management best practices.

For those interested in combining safety management expertise with broader business leadership, a Master of Business Administration in Safety Management is an option. This interdisciplinary degree blends business strategy with in-depth safety training, preparing graduates to lead effectively in safety management and beyond.

Process Safety Management Training Course

A key component of this program is process safety management, where participants will develop a strong understanding of how to identify and mitigate risks associated with process operations. The curriculum covers the most up-to-date methodologies and strategic approaches, preparing attendees to meet the standards required for certification in safety management systems.

Earning certification in safety management systems demonstrates a participant's professional commitment to safety excellence and mastery of certification requirements.

Target Audience

This course is intended for:

- Health and safety professionals
- Production, process, mechanical, control, and maintenance personnel
- Project professionals and engineers
- Personnel involved in preparing safety reports

Course Objectives

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

- Understand critical safety codes of practice issued by major organizations, particularly those related to the Control of Major Accident Hazards for onshore facilities
- Recognize the essential elements of implementing the safety case concept for both fixed and mobile offshore installations
- Appreciate the value of incident root-cause analysis and learn best practices for promoting a positive safety culture, based on established international methodologies
- Conduct task-based risk assessments, focusing on human error and management system failures
- Apply best practices in Project Health, Safety, and Environmental Reviews by linking these reviews with the Capital Value Process and the organization's Health, Safety, and Environmental Management System
- Develop skills in setting targets, planning, implementing initiatives, and measuring safety performance

Core Competencies to Be Developed

By the conclusion of the program, participants will have developed competencies in:

- Applying advanced concepts and methodologies to solve health, safety, and environmental challenges in the workplace
- Understanding and using both active and reactive monitoring, as well as key performance indicators
- Preparing and applying health, safety, and environmental plans, including pre-construction and pre-operation safety reports
- Conducting comprehensive risk assessments

Course Modules

Unit 1: Best Practices for Controlling Major Hazards

- Codes of practice for the Control of Major Accident Hazards
- Elements of the Control of Major Accident Hazards regulations
- The safety case concept and its components

- Role of quantified risk assessment in the Control of Major Accident Hazards and in safety cases
- Relationship between health, safety, and environmental management systems and major hazards
- Emergency planning related to significant hazards

Unit 2: Best Practices in Root-Cause Analysis

- Understanding the role of human error in incidents
- How active errors, preconditions, and latent failures contribute to accidents
- Techniques for incident analysis and international best practices
- Use of cause trees and event-causal factor analysis
- Linking root causes to conclusions and recommendations
- Group work and practical applications

Unit 3: Best Practices in Risk Assessment

- The purpose of risk assessment and common challenges
- Methods for making risk assessment effective
- Evaluating risks using best practice approaches
- Understanding task-based approaches to risk assessment
- Applying task-based risk assessment to work permits
- Planning implementation strategies and techniques for measuring performance

Unit 4: Best Practices in Human Reliability Assessment

- Understanding human error and accident causation
- Classification of human errors
- Role of task analysis and job safety analysis in risk prevention
- Techniques for developing and sustaining a positive safety culture
- Methods to assess cultural improvements and link safety culture with the Health, Safety, and Environmental Management System

Unit 5: Best Practices in Project Health, Safety, and Environmental Reviews

- Stages of a project and related safety considerations
- Developing project-specific health, safety, and environmental plans
- Latest procedures for conducting Project Health, Safety, and Environmental Reviews and integrating them with the Capital Value Process
- Incorporating Project Health, Safety, and Environmental Reviews into the organization's Health, Safety, and Environmental Management System

- Terms of reference, protocols, and procedures for Project Health, Safety, and Environmental Reviews
- Documentation requirements and reporting guidelines for reviews