# Introduction

The integration of **Health, Safety, and Environmental (HSE) Management Systems** into business operations has transformed safety management practices across industries. Rather than relying on prescriptive standards, organizations now adopt **proactive risk management approaches** through structured and systematic risk assessments.

This **Safety Management Systems Training Course** provides practical experience in applying advanced safety management principles tailored to various industries. The curriculum combines reactive, active, and proactive performance measurement strategies based on best practices, empowering participants to drive organizational safety and well-being effectively.

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## Understanding Safety Management System Training

For professionals seeking enhanced expertise without significant travel, this course offers a regionally relevant curriculum. Attendees gain essential knowledge and skills for immediate application of safety management principles in their specific contexts.

For those pursuing advanced interdisciplinary expertise, programs like an **MBA in Safety Management** combine business leadership with rigorous safety training, preparing graduates for senior roles in safety management.

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## Process Safety Management Training Course

Participants will learn to identify and mitigate risks in process operations, utilizing the latest methodologies. The course prepares attendees for **Safety Management System Certification**, showcasing their mastery of safety management criteria and commitment to safety excellence.

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## Target Audience

This course is ideal for:

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

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## Course Objectives

By the end of this course, participants will:

1. Understand safety codes of practice, including COMAH (Control of Major Accident Hazards).
2. Gain awareness of the safety case concept for offshore and onshore installations.
3. Appreciate root-cause analysis and methods for promoting a positive safety culture.
4. Perform task-based risk assessments focusing on human error and system failures.
5. Apply **Project HSE Reviews (PHSER)** best practices linked to the **Capital Value Process (CVP)** and HSE management systems.
6. Develop skills in setting targets, planning, implementation, and performance measurement.

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## Targeted Competencies

Participants will develop skills to:

- Solve workplace HSE challenges using advanced concepts and methodologies.
- Understand active/reactive monitoring and Key Performance Indicators (KPIs).
- Create comprehensive HSE plans, including pre-construction and pre-operation safety reports.
- Perform effective risk assessments.

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## Course Content

### Unit 1: Major Hazards Control Best Practice

- COMAH code of practice and its key elements.
- The safety case concept and its components.
- Role of **Quantified Risk Assessment (QRA)** in COMAH and safety cases.
- Emergency planning for significant hazards.

### Unit 2: Root Cause Analysis Best Practice

- Human contribution to incidents: active errors, preconditions, and latent failures.
- Incident analysis techniques, including **cause trees** and **events/causal factor analysis**.
- Linking root causes to actionable recommendations.

### Unit 3: Risk Assessment Best Practice

- Fundamentals of risk assessment and common pitfalls.
- Best practices for effective risk evaluation.
- Task-based approaches to risk assessment and their application in **Work Permits**.
- Planning, implementation, and performance measurement techniques.

**Unit 4: Human Reliability Assessment Best Practice**

- Classification of human error and its impact on accident causation.
- Task analysis and job safety analysis techniques.
- Strategies for promoting a positive safety culture.
- Linking safety culture improvements with HSE management systems.

**Unit 5: Project HSE Reviews Best Practice**

- Stages of a project and associated HSE plans.
- **PHSER procedures** and integration with the Capital Value Process (CVP).
- Documentation, protocols, and reporting requirements for PHSER.