



HSE Standard ISO 45001 Safety  
Management System



28 July - 1 August 2024  
Cairo (Egypt)

# HSE Standard ISO 45001 Safety Management System

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## Introduction:

ISO 45001 standard has replaced the popular OHSAS 18001 Regulations with the overall purpose remaining the improvement of occupational health and safety performance. ISO 45001 will more easily integrate with other ISO Management Systems standards including ISO 9001:2018 and ISO 14001:2018. ISO 45001 will require an organization to look beyond its immediate health and safety issues and take into account what the wider society expects of it. Organizations will have to think about their contractors and suppliers, as well as the effects their activities have on neighboring communities.

ISO 45001 will give organizations an internationally recognized occupational health and safety standard to follow. This standard provides the specification for formal, systematic analysis and management of risk, management of regulatory compliance, promotion of safer work practices, and evaluation of occupational health and safety performance. This systematic approach facilitates a decrease in the number of incidents and ultimately less disruption to the business.

## Course Objectives:

At the end of this course the participants will be able to:

- Identify key safety Codes of Practice introduced by major organizations.
- Develop best practices for promoting a positive safety culture.
- Evaluate risk assessments.
- Analyze HSE Plans and Pre Construction & Pre Operations Safety Reports.
- Identify Key Performance Indicators KPI.

## Targeted Audience:

- Health & Safety professionals.
- Production, process, mechanical, control, and maintenance personnel.
- Project professionals and Engineers.
- Personnel involved in the preparation of Safety Reports.

## Course Outlines:

### Unit 1: Safety Management Systems:

- The scope and nature of health and safety.
- Safety Management System overview.
- OHSAS 18001, ILO OHS 2001, POPMAR vs. PDCA.
- ISO 45001:2019 Safety Management System.
- OSHA's Safety & Health Program Management Guidelines.
- Case Study.

## Unit 2: Major Hazards Control Best Practice:

- The Safety Case concept & Seveso III.
- Inherently Safer Designs & Case Study.
- Emergency planning and major hazards.
- The role of human contribution to incidents.
- Active errors, preconditions, and latent failures.
- Incident investigation techniques- best practice.

## Unit 3: Risk Assessment Best Practice:

- Risk assessment- the pitfalls.
- How to make risk assessment effective.
- Evaluation of risks- best practice.
- Work Permits - Best practice.
- The role of task analysis and job-safety analysis.
- Case Study.

## Unit 4: Measuring Performance & Safety Culture:

- Measuring performance - Active and Reactive.
- Key Performance Indicators & Process Safety Performance Indicators.
- Best practice techniques for promoting a safety culture.
- Communication, control, co-operation & competence.
- Assessing improvement and linking safety culture with the HSE Management System.
- Case Study.

## Unit 5: Project HSE Plans:

- Construction HSE Plans.
- Pre-Construction Safety Report.
- Pre-Operation Safety Reports.
- Land-use Planning.
- Tank Farms & Safety Instrumented Systems.
- Course review & evaluation.