



# "تصميم المسؤوليات الصحية والسلامة والمخاطر في الهندسة: دليل للمحترفين"

**Duration:** 5 Days

**Language:** ar

**Course Code:** PO2-113

## Objective

Upon completion of this course, participants will be able to:

- Understand the importance of health and safety within an organisation.
  - Assess how and why incidents may occur.
  - Identify hazards utilising different methods and techniques.
- Evaluate the short and long-term effects of incidents on business productivity.
  - Review what records and documents must be created and maintained when conducting risk assessments.
  - Account for regional and international health and safety regulations.
- Explain what health and safety circumstances are commonly faced within the industry.
  - Advise on the ideal practices to reduce risk.
  - Assess what control measures can be applied to manage risk.

## Audience

This course is designed for anyone in the engineering industry responsible for maintaining health and safety. It would be most beneficial for:

- HSE Personnel
- Engineering Project Managers
- Construction/Site Supervisors
- Construction/Site Managers
- Engineering Directors
- Process Safety Managers
- Operation Managers
- Chief Engineering Officers (CEOs)

## Training Methodology

This course uses a variety of adult learning styles to aid full understanding and comprehension. Participants will review real-world examples of risk management documents to highlight risk areas and what factors may lead to accidents.

They will be supplied with all the necessary tools and equipment to conduct the learning exercises effectively. A combination of video materials, presentations, and practical activities will provide ample opportunities for participants to develop their knowledge and practical skills related to the taught content. Furthermore, they will be able to create their own risk management plans about their respective roles to gain a full understanding of the processes.

## Summary

Within the ever-growing engineering industry, there is an increasing potential for minor and major accidents to occur, especially if an organisation is not fully risk-aware. As an engineer and those in a leadership or management position, it is incredibly important to be fully competent and aware of the risks associated with the industry. Risk management aims to identify hazards, document risks, and create and implement control methods. A vast number of methods can be utilised to analyse risks and aid in establishing preventative measures, and these can be extremely beneficial as they can help negate the potential for human error.

Enforcing stricter health and safety processes is essential for an organisation to maintain peak productivity. Major incidents can impact funds and assets and lead to engineers' injuries. Complete knowledge and understanding of risk management can enable a business to function to its maximum potential.

# Course Content & Outline

## Section 1: Fundamentals of Health and Safety

- Defining health and safety.
- Understanding the role health and safety serves within an engineering organisation.
  - What are the driving factors in maintaining health and safety?
    - Construction Projects Legislation (ILO & EU).
    - Accident and incident causation.
    - Principles of risk assessments.
  - Fire safety and preparation - Fire extinguishers, fire blankets, alarms.

## Section 2: Health and Safety Plans

- Constructing project health and safety plans.
  - Project excavations and confined spaces.
  - Major incidents and how they occur.
- Environmental factors that contribute to health and safety.
  - Identifying hazards and system safety processes.
- Methods of hazard identification - HAZOP, LOPA, and FMEA.
- Assessing and implementing control measures for identified hazards and risks.

## Section 3: Human Influences

- Understanding the potential for human error.
- Correctly utilising digital programs and technologies to reduce human error potential.
- Effective communication in verbal and non-verbal forms in relation to awareness about risks.
  - Human influence in major incidents.
  - Reducing errors and violations.

## Section 4: Accidents and Control

- Finding the balance between risk certainty and uncertainty.
- Types of analysis conducted to measure risk types and severity - FMEA, RPN, RBD, and RCM.
  - Appropriately documenting the risks and preventative measures found in place.
  - Thoroughly investigating incidents if they occur to evaluate the cause and future preventative measures.
    - Design and reliability of control and protective systems.

## Section 5: Organisational Culture Surrounding Health and Safety

- Create open discussions about health and safety and encourage others to understand its importance.
- Implementing active monitoring of machinery or high-risk processes.
  - Educating others on health and safety practices.

## Certificate Description

عند إتمام هذه الدورة التدريبية بنجاح، سيحصل المشاركون على شهادة إتمام التدريب من Holistique Training. وبالنسبة للذين يحضرون ويكلّون الدورة التدريبية عبر الإنترنّت، سيتم تزويدهم بشهادة إلكترونية (e-Certificate) من Holistique Training.

وخدمة اعتماد التطوير المهني (BAC) معتمدة من المجلس البريطاني للتقييم Holistique Training شهادات ISO 29993 أو ISO 9001 كما أنها معتمدة وفق معايير (CPD) المستمر.

لهذه الدورة من خلال شهادتنا، وستظهر هذه النقاط على شهادة إتمام (CPD) يتم منح نقاط التطوير المهني المستمر واحدة عن كل ساعة CPD يتم منح نقطة CPD، ووفقاً لمعايير خدمة اعتماد Holistique Training التدريب من لأي دورة واحدة نقدمها حالياً CPD حضور في الدورة. ويمكن المطالبة بحد أقصى قدره 50 نقطة.

## Categories

الهندسة، الصحة والسلامة والبيئة

## Related Articles

### Principles to Enhanced Health & Safety Management in 2025 10

Explore Health & Safety Management—its importance and 10 guiding principles to protect well-being, ensure compliance, and drive safer workplaces

## YouTube Video

[https://www.youtube.com/embed/tOtQFyhMxuY?si=XY\\_r0z\\_mQnMac5DD](https://www.youtube.com/embed/tOtQFyhMxuY?si=XY_r0z_mQnMac5DD)