

Hazard Identification Techniques

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Learning Methods:  Virtual Classroom  Face-to-Face Classroom  In-Company

Course Overview

This two-day Hazard Identification Techniques course is designed for professionals working in process safety and risk management. It covers a comprehensive range of hazard identification methods used to prevent and mitigate the effects of process safety incidents across different industries.

You'll learn how to apply a structured, systematic approach to identify, prioritise, and manage process risks effectively. The course also guides you in selecting the most suitable hazard identification technique for various scenarios, project stages, and operational settings.

Delivered through a mix of interactive workshops, hands-on exercises, real-world case studies, and video content, this course offers practical and engaging learning. Completion can contribute towards meeting the Hazard Identification competence requirement for those pursuing Professional Process Safety Engineer status with IChemE.

Who is the Course for?

This course is ideal for anyone involved in the design, construction, installation, commissioning, decommissioning, or modification of process plant. It is particularly relevant for:

- ▶ Plant and process operators
- ▶ Process safety engineers
- ▶ Loss prevention specialists

Course Key Facts

Duration

- ▶ **Virtual Classroom** – two live and interactive modules with the trainer, each lasting three hours. There will also be some work to complete independently before the course and between the live sessions.
- ▶ **Face to Face Classroom** – delivered over two days.

Course Content

- ▶ Hazard identification through the process lifecycle
- ▶ Inherent safety study
- ▶ Concept and preliminary Hazard Analysis (HAZID)
- ▶ The HAZOP technique (continuous, batch and procedural)
- ▶ Failure Modes Effects and Criticality Analysis (FMECA)
- ▶ Layer of Protection Analysis (LOPA)

Attendance Certificate

An e-certificate will be issued at the end of the course to confirm attendance and CPD hours logged. Please note that you must attend all modules to receive the certificate.

CPD hours should be used as an approximate guide and will vary depending on the preferred approach of the delegate and to what extent additional learning is completed.

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IChemE



Benefits for Employers

- ▶ **Enhanced Process Safety Competence:** Equip your team with the skills to systematically identify and manage process safety risks, leading to improved safety performance and compliance with industry standards.
- ▶ **Cost-Effective Training Solutions:** Opt for in-company training to train multiple employees simultaneously, reducing per-person training costs and minimizing operational disruptions. **Discounts for multiple seat purchases are available.**
- ▶ **Tailored Training Content:** Customise the course content to address specific organisational needs and scenarios, ensuring relevance and immediate applicability to your operations.

Benefits for the Learner

- ▶ **Comprehensive Understanding of Hazard Identification:** Gain in-depth knowledge of key techniques such as Inherent Safety Study, HAZID, HAZOP, FMECA, and LOPA, enhancing your ability to identify and assess process safety risks effectively.
- ▶ **Practical Application Through Interactive Learning:** Engage in workshops, case studies, and practical exercises that provide real-world scenarios, facilitating the application of learned techniques to actual process safety challenges.
- ▶ **Professional Development and Recognition:** Earn Continuing Professional Development (CPD) hours and enhance your credentials, contributing towards the 'Hazard Identification' competence required for becoming a Professional Process Safety Engineer.