

Introduction to HAZOP

Astutis.

Learning Methods:  Online  In-Company

Course Overview

An Introduction to HAZOP is an on-demand, self-paced online course designed to provide a comprehensive understanding of the Hazard and Operability Study (HAZOP) methodology. Developed by the Institution of Chemical Engineers (IChemE), this course delves into the HAZOP process, elucidating its benefits, limitations, and the roles and responsibilities of participants. Learners will gain insights into when and how to apply the HAZOP technique effectively within various project lifecycles.

Delivered through IChemE's Virtual Learning Zone, the course offers flexibility, allowing participants to engage with the material through self-study over a six-month access period. The curriculum includes pre-recorded and interactive content, recommended further learning resources, and an end-of-course assessment.

Who is the Course for?

This course is ideally suited for:

- ▶ Engineers
- ▶ Scientists
- ▶ Project Managers
- ▶ Senior Managers

Also suitable for anyone interested or new to HAZOP methodology who seek to understand its application in process safety and risk analysis. It serves as a foundational course for professionals aiming to participate in or lead HAZOP studies within their organisations.

Course Key Facts

Duration

6 hours, with 6-month access to complete the course.

Course Content

- ▶ Introduction and learning outcomes
- ▶ HAZOP origins
- ▶ What is HAZOP?
- ▶ The basic HAZOP process (part 1)
- ▶ HAZOP team and documentation
- ▶ The basic HAZOP process (part 2)
- ▶ Further resources
- ▶ Assessment and feedback.

Attendance Certificate

An e-certificate will be issued at the end of the course, subject to successful completion of the course.



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IChemE

Benefits for Employers

- ▶ **Improved Risk Management.** Equip your team with foundational knowledge of HAZOP, strengthening your organisation's ability to identify and mitigate process hazards early in the project lifecycle.
- ▶ **Stronger Safety Culture.** Promote a culture of safety and compliance by ensuring that employees understand the principles of systematic hazard analysis.
- ▶ **Cost and Time Efficiency.** Reduce the likelihood of incidents, unplanned downtime, and costly reworks by enabling staff to identify risks proactively through structured HAZOP reviews.
- ▶ **Consistency in Project Delivery.** Standardise the understanding and application of HAZOP across project teams, ensuring alignment with industry best practices and regulatory expectations.
- ▶ **Enhanced Team Participation.** Increase the effectiveness of HAZOP studies by having trained team members who understand their roles and responsibilities in the process.

Benefits for the Learner

- ▶ **Comprehensive Understanding of HAZOP.** Learn the principles, objectives, and limitations of HAZOP and how it fits within the broader context of process safety.
- ▶ **Flexible Learning Format.** Study at your own pace with six months of access to on-demand content, allowing for self-directed learning to fit around work and life commitments.
- ▶ **Practical Knowledge and Application.** Gain real-world insights into the roles and responsibilities within a HAZOP team, and when and how the methodology should be applied.
- ▶ **Career Development.** Build your competence in process safety and hazard analysis – valuable knowledge that supports progression into more senior technical, safety, or leadership roles.
- ▶ **Recognised Certification.** Receive an IChemE-endorsed certificate upon successful completion of the course and assessment, contributing 20.5 CPD hours.

