

PROCESS SAFETY MANAGEMENT (PSM) & HAZOP STUDIES

Start Date:	01/12/2025	End Date:	05/12/2025
Categories:	HSSE (Health, Safety, Security)	Venues:	Amsterdam
Formats:	In Person	Instructors:	

OVERVIEW

This course provides an in-depth understanding of Process Safety Management (PSM) systems and Hazard and Operability (HAZOP) studies. It equips professionals to identify hazards, evaluate risks, and implement control measures to ensure safe operations.

OBJECTIVES

- Understand key elements of PSM frameworks.
- Conduct HAZOP studies to evaluate potential process risks.
- Apply risk assessment methodologies and layers of protection.
- Identify and control process safety hazards.
- Strengthen safety culture and incident prevention.

COURSE OUTLINE

- Introduction to Process Safety and Regulatory Frameworks
- Elements of OSHA and CCPS PSM Models
- HAZOP Study Methodology and Facilitation
- Risk Ranking and Mitigation Strategies
- Layers of Protection Analysis (LOPA)
- Safety Instrumented Systems (SIS)
- Case Studies and Best Practices

TARGET AUDIENCE

HSE engineers, process engineers, plant managers, and risk assessment professionals.

METHODOLOGY

Interactive sessions, HAZOP simulations, risk matrix exercises, and group case studies.

CONCLUSION

Participants will be able to lead or contribute effectively to HAZOPs and PSM systems.

DAILY AGENDA

Day 1: Introduction to PSM

PSM principles, legislation, and frameworks.

Day 2: HAZOP Planning & Guidewords

Team roles, systems breakdown, and guidewords.

Day 3: HAZOP Workshop

Facilitated walkthroughs with live examples.

Day 4: LOPA & Safeguards

Using layers of protection to reduce risk.

Day 5: SIS & Best Practices

Safety systems, standards, and incident reviews.

For more information, please contact us:

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