



# PROCESS SAFETY MANAGEMENT (PSM)

## Who is it for?

The course is designed for those responsible for developing and implementing process safety management in their organisation, but that do not yet have a solid understanding of process safety and good industry practices of PSM.

These may include:

- HSE Managers, Officers, Coordinators, Implementers, etc
- Plant or unit managers
- Heads of section or department (operations, maintenance and inspection, engineering, etc.)
- Senior engineers (e.g. reliability, inspection).

## What are the Course Requirements?

There are no formal entry requirements to enroll on this course. However, the course is delivered and assessed in English, therefore it is recommended that learners have adequate understanding of the English language.

## Why is it important?

Training in process safety management is needed to ensure that employees are properly trained on all safety procedures and have access to ongoing refresher training. It is important to prevent process-related injuries, deaths, and major disasters by ensuring employees know how to handle hazardous substances and respond appropriately in emergencies.

Furthermore, process safety management training is necessary to ensure that employees, especially those working with dangerous machinery or chemicals, develop competence in process safety management concepts, practices and procedures.

This training is necessary to prevent incidents related to highly hazardous chemicals and to minimize the severity of any unintentional releases. It also helps organizations comply with legal requirements and improve business and safety standards.



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## Course Duration

The course is designed to last at least two (02) days, including the assessment, if learning is continuous.

## Course Outline

- Categorisation of industry safety | Difference between personal and industrial safety
- Critical elements of a process safety management program
  - Employee participation
  - Process safety information
  - Process hazard analysis
  - Operating procedures
  - Training
  - Contractors
  - Pre-startup safety review (PSSR)
  - Management of change (MOC)
  - Incident investigation
- Trade secrets
- Emergency planning and response
- Compliance audits
- Hot work permit
- Safety critical elements (SCEs)
- Failure mode and effects analysis (FMEA)
- Performance assurance
- Safety in design
- Alarm management program
- Pipeline integrity management system
- Pipeline and bulk tank corrosion
- Process safety incident reviews – Case studies

## Mode of Learning

- 100% online
- No live presence
- Download the HIOSH app or log onto the HIOSH website to study the course



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