

PROCESS SAFETY MANAGEMENT



PE101

COURSE TITLE

PROCESS SAFETY MANAGEMENT

COURSE DATE/VENUE

24th – 28th May 2027

London, UK

COURSE REFERENCE

PE101

COURSE DURATION

05 Days

DISCIPLINE

Process & Chemical Engineering

COURSE INTRODUCTION

Process safety implies both prevention and mitigation of loss of primary containment. Applying the latest process safety knowledge and experience in a plant saves people's lives, the environment, reduces down time lost in repairs and increases profit by avoiding deferment and loss of production that occur after a fire or explosion incident. This training introduces the main topics of process safety and its management elements.

The training helps the attendees operate and maintain the facility/plant in a safe manner and reduce the risk of accidents.

For in-house training, a tailor-made training is available for a specific type of plants (e.g. gas plant, refinery, nuclear, offshore, etc) and using specific operator company practice.

COURSE OBJECTIVE

At the end of the training course, participants will:

- Introduce the main terminology used in process safety context.
- Enable the trainees to operate, maintain and support operation of a facility safely.
- Give real examples of incidents and case study.
- Introduce the main hazard and risk assessment techniques and their scope and use.
- Enable the trainees to take the correct decisions to upgrade process safety and protection in the facility.
- Give some insights on safeguards specially safety instrumented systems
- Introduce incident investigation techniques.

COURSE AUDIENCE

Supervisors, Engineers & Facility/Utility engineers, maintenance Technicians, Operating Personnel

COURSE CONTENT

Day 1-Overview

- Important terms and definitions
- Examples of real Incidents
- Hazard/Risk Identification and Analysis
- Hazards Associated with Specific equipment

Day 2-Inherent Safety & Hazard Analysis

- Insights on the design phase and how it affects the plant till its decommissioning
- Inherently Safer Design Methodology
- Pre-Design and Design Phases
- Hazard Analysis Techniques

Day 3- Consequence Analysis, Layout & Risk Assessment

- Consequence analysis uses and methods
- Consequence analysis principles
- Safety Consideration in Plant Layout and Equipment Spacing

- Risk Assessment terms and uses
- LOPA and SIL assessment uses, rules & applications

Day 4- SIS & Incident Investigation

- Safety Instrumented Systems
- How to conduct Incident investigation

Day 5-Process Safety Management PSM

- PSM definition
- PSM Elements
- PS Indicators

COURSE CERTIFICATE

TRAINIT ACADEMY will award an internationally recognized certificate(s) for each delegate on completion of training.

COURSE FEES

£5,500 per Delegate. This rate includes participant's manual, Hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

COURSE METHODOLOGY

The training course will be highly participatory and the course leader will present, guide and facilitate learning, using a range of methods including formal presentation, discussions, sector-specific case studies and exercises. Above all, the course leader will make extensive use of real-life case examples in which he has been personally involved. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

- 30% Lectures
- 30% Workshops and work presentation

- 20% Case studies & Practical Exercises
- 10% Role Play
- 10% Videos, Software or Simulators (as applicable) & General Discussions

