

Training Title

Hazard Operability Study & Certified HAZOP Leader

Training Duration

5 days

Training Date

PE564	HAZARD OPERABILITY STUDY & CERTIFIED HAZOP LEADER	5	19-23 Feb 2024	\$6,500	London, UK
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In the below 5 star hotel as mentioned. The exact venue will be informed once finalized.

1. Events at Marble Arch

Central Cluster Meetings, Events and Group Sales - The Cumberland Hotel and Thistle Marble Arch

T. +44 (0) 207 523 5060

W. clermonthotel.group | A. Thistle Marble Arch, Bryanston St, Marylebone, London, W1H 7EH

Training Fees

- **\$6,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch**

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

Language: English

INTRODUCTION

Modern concepts of Process Safety Management and process hazard analysis adopt the risk-based approach to selecting the most appropriate design measures in order to reduce risks to a level that is as low as acceptable, reasonably and practicable.

The HAZOP study is the major method of process hazard analysis to identify the potential hazard related the unit and equipment operation as well as the hazardous material by HAZOP study the risk could be mitigated and could be accepted.

This course is based on Process Safety Management by DuPont Safety Resources as they more than 40 years have been dedicated to helping companies around the world develop safety programs and practices that work.

The course will provide the most comprehensive, customizable range of safety offering available all PMS elements and process hazard analysis based HAZOP study.

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COURSE OBJECTIVE:

- Update your skills on modern concepts of process and work equipment safety Standards and Directives
- Help selecting a criteria for integrating health and safety specifications for process and work equipment
- Improve experience in the application of reliability technology for the selection of process and work equipment
- Ensure consistent optimization of resource allocation for production, maintenance and safety, based on risk and cost-benefit analysis.
- Provide HSE practitioners with a route for gaining the experiences of process hazard analysis PHA based on HAZOP study, incident investigation root cause analysis RCA as continual improving measure
- Provide participants with an understanding of process and plant auditing as a new technique of incident prevention.
- Improve your practical application of man behavior based on safety as behavior based safety BBS.

WHO SHOULD ATTEND?

The process engineers, reliability engineers, plant supervisors, plant operators and HSE technical personnel. Particularly those who have recently assumed new responsibilities, to increase their technical knowledge for process safety management to become better acquainted with new technologies in the process safety management. The course will help them to improve the participants' skills and broaden their vision and understanding of the entire process safety management PSM.

COURSE SCHEDULE

DAY 1

- **Course introduction**
- **Overall process safety management PSM**
- **Elements of process safety management and risk management program**
- **Process safety management resource**
- **Case study**
- **Process safety management elements**
- **Process safety management model**
- **PSM elements: Emergency planning and response**
- **Auditing methodology and responsibility**
- **Management of personal change**
- **Case study**

DAY 2

- **Incident investigation**

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- Contractor management and responsibility
- Training and performance
- Behavior based safety BBS
- Management of subtle change
- Case study

DAY 3

- Mechanical integrity
- Pre-start up safety review
- Quality assurance
- Process safety information
- Operation procedure and safe practice
- Management of technology change
- Case study

DAY 4

- Process hazard analysis PHA
- PHA methodology, team formation and responsibilities
- Methodology selection:
 - 1-What If/Checklist method
 - 2-Failure Mode and Effect Analysis method (FMEA)
 - 3-Hazard and Operability method (HAZOP)
 - 4- Fault Tree Analysis method (FTA)
- HAZOP meaning, technique, procedure and HAZOP team member

DAY 5

- HAZOP meeting and recording
- Process HAZOP
- Process HAZOP work sheet, items and examination guide words
- PHA based HAZOP study outcome, case study and full report
- Risk-based inspection as integrity tools of plant reliability and availability
- Risk Assessment and job risk assessment JRA
- The residual risk factors and risk analysis
- Risk definition and acronyms
- Case study

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

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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

Case Studies, Group Discussions, Last Day Review, Assessments will be carried out.

MEETING ROOM PICTURES:



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P.O BOX 45304
ABU DHABI, U.A.E

T +971 2 6264455
F +971 2 6275344

www.definettraining.com



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