

**Training Title**

**HAZOP LEADER**

**Training Duration**

**5 days**

**Training Venue and Dates**

HS016	HAZOP LEADER	5	04 -08 October 2020	\$4,500	Dubai, UAE
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In any of the 5 star hotels. The exact venue will be informed once finalized.

**Training Fees**

- 4,500 US\$ 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.

**TRAINING INTRODUCTION & DESCRIPTION**

The technique of Hazard and Operability Studies, or in more common terms HAZOP, has been used and developed over approximately four decades for “ Identifying potential hazards and operability problems” caused by deviations from the design intent of both new and existing process plants.

HAZOP is an abbreviated term for Hazard and Operability study. It is a technique that identifies the potential hazards and operating issues with the design and construction of equipment and plant and involves the interaction of a multi-disciplinary team. This course covers the explanation of the HAZOP techniques and how to apply such techniques in the process safety.

**TRAINING OBJECTIVES**

The aim of this course is to provide the participants with the knowledge and group leadership skills to lead teams in effective Process Hazards Analysis (PHA) studies and HAZOP studies.

Upon the successful completion of this course, participants will:

- Gain an understanding of the concepts of PHA and of the major techniques for hazard identification and when each should be used.

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- Gain an understanding of the responsibilities involved in PHA leadership and training in the skills necessary for leading PHA studies.
- To be familiar with HAZOP Techniques
- To act as a Team Leader of a HAZOP Team
- To be able to carry out HAZOP Studies
- Gain knowledge to describe the need for change and change management as well as effective methods for dealing with changes

### WHO SHOULD ATTEND?

- Process Engineer
- Operation Engineer
- Safety Engineer
- Environmental
- Loss Prevention Engineer
- PSM Coordinator & Professional

### TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. 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. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

### DAILY OUTLINE

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#### Day One

- Examples of major disaster accidents
- Hazardous materials (flammable & combustible substances)
- Hazardous areas:
  - IEC standards
  - ATEX directive (EC)
  - NEC – USA
  - CENELEC (EN)

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- Process safety management (PSM – OSHA)
- Group workshop

### Day Two

- Hazard identification
- Hazard analysis
- Introduction to HAZOP/need for HAZOP/what are HAZOPS?
- Components of HAZOP
- Standard guide words
- Intention, parameters, and deviation
- Preparation for carrying out HAZOP
- HAZOP team
- Team leadership skills
- Team leader qualifications
- Responsibility of participants in PHAs & HAZOP teams
- Case studies
- Group workshop

### Day Three

- HAZOP techniques
- HAZOP methodology
- Applying HAZOP
- HAZOP examples
- Case studies
- Group workshop

### Day Four

- FMEA & fault tree
- Process hazard analysis
- Management of change
- HAZOP examples
- HAZOP application
- Case studies
- Group workshop

### Day Five

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- HAZOP results/recordkeeping
- HAZOP reports
- Group workshop
- Final exam

NOTE:

**Pre & Post Tests will be conducted**

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



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