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Course Name

Certified Greenhouse Gas Protocol Reporting

Sector Name

Health, Safety and Environment

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Course Introduction

Safety demands a deep knowledge and application of effective hazard analysis methods. In this highly interactive course, you'll have the opportunity to expand your basic understanding of process hazard analysis and learn how to extend order-of-magnitude scenario risk calculations to other uses.

You will learn and practice the PHA techniques successfully being applied in the process safety industry today and will provide you the required competence to execute process hazard analysis within your organization.

You will practice athe role and responsibilities of the HAZOP chairman and how to run a successful HAZOP session. You'll also examine the concept of importance measures applied to PHAs and how to use a PHA to identify safety instrumented systems (SIS) and safety integrity levels (SIL).

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Target Audience

✓ HSE managers

✓ HAZOP leaders

✓ Instrumentation engineers

✓ Process operations/Engineers

✓ Maintenance and testing engineers

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Learning Objectives

- ✓ Learn the detailed HAZOP skills
- ✓ Be able to develop good risk acceptability criteria
- ✓ Be able to lead a good HAZOP session
- ✓ Become aware of industrial hazards that can lead to loss of containment
- ✓ Learn the PSM standard (14 Elements)
- ✓ Be familiar on how to carry out successful PHA HAZOP sessions
- ✓ Identify Safety Instrumented Systems (SIS)
- ✓ Identify what is meant by SIL
- ✓ Be able to perform LOPA and SIL calculations
- ✓ Determine SIL Level

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Course Outline

✓ DAY 1

Process Historical Disasters

- ✓ Hazardous Classified Locations
- ✓ Physical and Chemical Properties of Hazardous Substances

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Course Outline

✓ DAY 2

OSHA Process Safety Management Standard (PSM)

- ✓ Process Hazard Analysis (PHA) – Case Studies
- ✓ HAZOP Techniques and Case Studies
- ✓ HAZOP Team Leader and HAZOP Members Responsibilities

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Course Outline

✓ **DAY 3**

HAZOP Real Sessions

✓ HAZOP Final Reports and Follow – Up Meetings

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Course Outline

✓ **DAY 4**

BPCS (Basic Process Control Systems

✓ SIS (Safety Instrumented Systems)

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Course Outline

✓ **DAY 5**

LOPA (Layers Of Protection Analysis)

✓ SIL (Safety Integrity Levels) SIL Determination

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 24, 2027	Oct. 28, 2027	5 days	4250.00 $	KSA , Riyadh
April 26, 2027	April 30, 2027	5 days	4250.00 $	UAE , Dubai
July 26, 2027	July 30, 2027	5 days	4950.00 $	Malaysia , Kuala Lumpur
Aug. 8, 2027	Aug. 12, 2027	5 days	4250.00 $	Oman , Salalah
March 22, 2027	March 26, 2027	5 days	4250.00 $	UAE , Abu Dhabi

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