



Consulting and Training | Reach New Heights

Course Name

SIL Determination and Verification

Sector Name

Health, Safety and Environment

Document Type

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SIL Determination and Verification

Course Introduction

SIL certification

SIL certification identifies all process hazards, estimates the risk of failure, and determines that if a failure occurs, the product will “fail safely.” Every component in an instrument must be examined and verified with respect to these criteria in order to comply with the SIL restrictions.

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Target Audience

- ✓ HSE managers
- ✓ HAZOP leaders
- ✓ Instrumentation engineers
- ✓ Process operations/Engineers
- ✓ Maintenance and testing engineers

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SIL Determination and Verification

Learning Objectives

- ✓ Identify Safety Instrumented Systems (SIS)
- ✓ Identify what is meant by SIL
- ✓ Determine SIL Level
- ✓ Develop and implement different SIL selection techniques within your organization, including the risk matrix, risk graph, and LOPA (Layer of Protection Analysis).
- ✓ Verify that the selected SIL is correct

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Course Outline

✓ DAY 01

Hazard and risk assessment methodologies

- ✓ HAZOP Studies, HAZOP, combined SIL / HAZOP
- ✓ LOPA (Level of Protection Analysis).
- ✓ Safety Requirements Specification / SIL Selection

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Course Outline

✓ Day 02

SIL Determination (Qualitative and Quantitative Methods)

- ✓ SIS design concepts
- ✓ Reliability Analysis techniques, FTA, FMEA,

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Course Outline

✓ Day 03

SIS validation techniques

- ✓ SIS operation, maintenance, and testing

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Course Outline

✓ **Day 04**

SIS-related Process Safety Management

✓ Safety Lifecycle Management

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Course Outline

✓ **Day 05**

Safety verification, validation, audits, and assessments

- ✓ Introduction to ISA 84.01 and IEC 61511

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 19, 2027	April 23, 2027	5 days	4950.00 \$	Singapore , Singapore
July 13, 2026	July 17, 2026	5 days	2150.00 \$	Virtual , Online
Oct. 12, 2026	Oct. 16, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 18, 2027	Jan. 22, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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