

SIL Facilitator Training



Safety Integrity Level (SIL) studies are the process industry's accepted standard for determining the risk reduction required by Safety Instrumented Functions (SIF's). Selecting the correct SIL level is critical to ensuring that your process design meets your risk targets while incorrect SIL determination can lead to exposure to risk or costly over design. The aim of this course is to enable the participants to become effective and efficient SIL study facilitators.

Overview

A SIL study is a structured and systematic examination of the SIF's that are present in a process design. The study examines the hazardous scenario that the SIF is designed to protect against. This includes likelihood analysis, identifying initiating events and independent layers of protection. This is combined with a consequence analysis to identify any residual risk compared to the risk targets. The appropriate SIL level is assigned to reduce the residual risk to meet the target.

The course covers a range of risk assessment techniques (LOPA (order of magnitude and advanced, Risk Graph and Risk Matrix).

The objectives of the SIL facilitators course are to develop the skills necessary to organise and lead a SIL study, develop an awareness of the factors that influence the performance of the SIL study team and to challenge existing practices or confirm the status quo at your facility.

Every course attendee will have the opportunity to lead, scribe and critique a workshop SIL study.

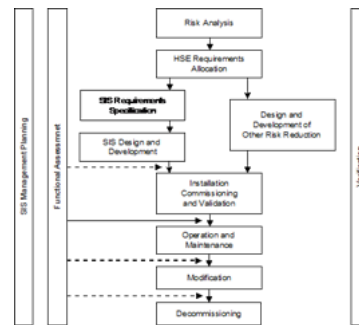


Figure 9: SIS Lifecycle Management

Course Content (2 days)

- History of SIL and Legal Requirements
- Risk targets
- SIL Review methodologies: LOPA, Risk Graph & Risk Matrix
- Required documentation and preparation.
- The meeting agenda and SIL report
- What can cause a SIL review to fail?
- Team Dynamics and the Role of Management
- Workshops on LOPA, risk graph and risk matrices.

Maximum number of attendees: 10



Safety Solutions Ltd are New Zealand's leading Process Safety consultants and trainers.

As part of our consultancy portfolio, Safety Solutions Ltd can facilitate SIL reviews and a wide range of risk assessment and hazard identification reviews. We can also mentor your team and your facilitators in review facilitation.

Our training courses are also offered as in-house courses with industry specific examples and workshops. For more information about any of our courses please contact Safety Solutions:

E: training@safetysolutions.co.nz
W: www.safetysolutions.co.nz

Other courses by Safety Solutions

- Introduction to Process Safety for Management (1 day)
- Introduction to Process Safety for Operators & Engineers (1 day)
- Hazardous Area Classification (2 days)
- HAZOP Participants (1 day)
- HAZOP Leader (2 days)
- Advanced HAZOP (1 day)
- Risk Assessment (2 days)

Delivered by Safety Solutions for IChemE

- Fundamentals of Process Safety (5 days)
- Layer of Protection Analysis (2 days)