

Safety Instrumented Systems Engineering

Part 1—Front End Engineering Design (FEED)

Safety Lifecycle, SIL Selection, Safety Requirements Specification

Kenexis provides the users of Safety Instrumented Systems (SIS) with training required to cost-effectively implement systems that are highly reliable, easy to use, and ideally suited for their applications. This course presents core principals of Safety Instrumented Systems Engineering and is taught by engineers who have years of practical experience in the design of safety systems. Part 1 spans two days and covers the first half of the Safety Lifecycle. Key topics include identifying the Safety Instrumented Functions (SIF), specifying a Safety Integrity Level (SIL) for those functions, and writing Safety Requirements Specifications.



Develop the right Safety Specification

Practical Skills Taught in Part 1

- Using the Safety Lifecycle
- Identifying causes of Process-Plant Accidents that have SIS Implications
- Understanding the principals of Risk Management
- Identifying Safety Instrumented Functions (SIF)
- Selecting Safety Integrity Levels (SIL)
- Developing Safety Requirements Specifications

KENEXIS

Our Advantage

Kenexis is an engineering and consulting firm specializing in the application of engineering safeguards, such as safety instrumented systems, to the process industries. Our years of experience give us unparalleled insight into specifying and verifying the safety requirements of a wide range of processes.

Safety Instrumented Systems Engineering – Part 1 includes the following topics:

- ✓ Section 1 Introduction / Overview
- ✓ Section 2 Lessons Learned from Process Plant Accidents
- ✓ Section 3 The Safety Lifecycle
- ✓ Section 4 Principals of Risk Management
- ✓ Section 5 Process Hazards Analysis
- ✓ Section 6 SIF Identification
- ✓ Section 7 SIL Selection
- ✓ Section 8 Safety Requirements Specifications

Who Should Attend?

- Control Systems Engineers
- Process Safety Professionals
- Process Hazards Analysis Leaders
- Engineering Management

Basic Part 1 Course: 2 Days

Kenexis courses are designed to instruct on the entire work process for engineering Safety Instrumented Systems, from conceptual design through detailed specifications. In this way, we can ensure that the needs of the end user can be met, while achieving the greatest value for automation expenditures.

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