



**Kolkata
Section**

*Join us to share knowledge & meet the
challenges of the future.*

***ISA Kolkata Section
cordially invites you to a WEBINAR on
Simplified SIL-SIF-SIS***

On Saturday, April 11, 2026, at 06.00 pm

Mr Pramod N Parikh, SIS Fundamental Specialist, SIL Selection Specialist (ISA Certificates) and Board Member of ISA Asia Pacific, will be the presenter. Mr Ramchandra Chakraborty, former MD of PSI Metals India Ltd and Program Chair of ISA Kolkata Section, will be the moderator.

Please join the Seminar. You may join by clicking the link below or scanning the QR Code:



<https://msteams.link/XW2H>

*You may please send your specific queries on the topic to make the discussion more interesting, at
<info@isakolkata.org> by 18th March 2026.*

***Ram Chandra Chakraborty
Program Chair
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Mr Pramod N Parikh, a graduate from has 45 years of rich experience of Projects, Operation, Maintenance & Quality Management in Chemical Process Industry in top positions in several bluechip companies of India and overseas like Gujarat Alkalies & Chemical Limited (GACL), Chlor Alkali complex of Basic Chemical Industry – BCI, Bureau of Energy Efficiency, Govt. of India, UPL Ltd. etc. He qualified as Process Safety Specialist & Instructor for Safety Instrumented System Fundamentals & SIL Selection after taking training of ISA in Denver, USA and passing examinations.

Abstract:

In industrial safety systems, the concepts of **Safety Integrity Level (SIL)**, **Safety Instrumented Function (SIF)**, and **Safety Instrumented System (SIS)** work together to reduce risk and prevent hazardous events. A **SIF** is a specific safety function designed to detect a dangerous condition and take action (for example, shutting down a machine when the temperature exceeds a limit). Multiple SIFs are implemented within a **SIS**, which is the overall system comprising sensors, logic solvers, and final control elements that ensure the plant operates safely. The effectiveness of each SIF is measured by its **SIL**, which indicates the level of risk reduction it provides, typically ranging from SIL 1 (lowest) to SIL 4 (highest). In simple terms, SIF is the action, SIS is the system performing those actions, and SIL is the measure of reliability and safety performance. Together, they form a structured framework widely used in industries such as oil and gas, chemical processing, and manufacturing to minimise accidents and ensure operational safety.

The Webinar shall cover Major Disastrous Accidents of past & current time, How such accidents of High Risk like Bhopal can be: ‘Never Again!’, Key Functional Safety Definitions per India published standard: IS-IEC 61511 (2019), Understanding of Layers of Protection Analysis (LOPA) to determine SIL post HAZOP, SIL explanation in details and SIL Capability Certification of products used in SIF-SIS.