

Safety Integrity Level (SIL) Study

Safety Integrity Level (SIL) is described as a comparative level of risk-reduction offered by a safety function, or an analysis of performance required for a Safety Instrumented Function (SIF) to maintain or achieve the safety state.

In essence, Safety Integrity Level analysis is an estimation of performance recommended for a Safety Instrumented Function (SIF).

At Velosi, we understand that it is crucial to perform a statistical measurement of how likely a process or a system is to be operational and ready to serve the function for which it is intended, including the calculated time to its likelihood of failure. Our uniquely designed SIL study services comply with global standards – IEC-61508, IEC-61511 and ISA TR 84.00.02 – to ensure the safe and reliable operation of the plant.

Benefits of SIL

- Effectively manages safety-critical equipment.
- Prevents or mitigates the consequences which can result in mishaps like loss of life, personnel injury, equipment damage or loss of production.

Classified Categories of Safety Integrity Level Analysis

- SIL Assessment
- SIL Verification
- Safety Requirement Specification (SRS)
- Safety Life Cycle

SIL Deliverables

- SIL Methodology
- SIL Classification
- SIL Verification
- Safety Requirement Specification (SRS)
- Safety Life Cycle Document

