

Fundamentals Training

SIS101:

Introduction to Safety
Instrumented Systems

Duration: 2 Day

Time: 8:00 am - 4:00 pm UTC -4

Date: See online store

Location: Microsoft Teams Cost: \$1,600 USD / Student

Course Outline

This course will cover introduction to fundamentals associated with the design and testing of Safety Instrumented Systems. Topics covered will include:

- Introduction to IEC 61511 safety-lifecycle phases: from hazard analysis to decommissioning
- SIL Selection What's an IPL? What's a good SIF definition? What's a SIL?
- SIL Verification Calculations Which parameters most impact results?
- Failure Rate Data Where to find it? Certified vs Prior Use?
- Safety Requirements Specification (SRS) What's required?
- Proof Testing What's a good test plan? How to conduct Test Interval Optimization?
- Concepts will be emphasized through a combination of PowerPoint slides with live instructor feedback
- All students will get hands on experience in completing SIL Calculations, SRS, C&Es and Proof Test Plans
- Focus will be on real world applications and making Functional Safety Simple

Instructor – Mike Scott – PE, CFSE

CEO of aeShield which has developed a patented digital process / functional safety lifecycle enterprise software offering deployed in 283+ facilities across 42 countries. He has over 30 years of process / functional safety and I&C experience including risk analysis, safety instrumented systems and control systems engineering, where he performed / implemented conceptual design, detailed design, configuration, and startup / commissioning exercises for the process industry.

- · Co-Chairman of the ISA S84 Committee
- · IEC 61511 committee member
- · Granted 7 patents on safety lifecycle tools and implementation
- · ISA Fellow

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