

exida Can Show you the Way



Training Course: IEC 61511

IEC61511 is the new process Safety Instrumented Systems (SIS) standard from IEC. This international standard defines the requirements for the specification, design, installation, operation, and maintenance of SIS. This standard is expected to be approved in the near future and will replace ANSI/ISA 84.01 in North America. It focuses on end user applications in the process industries e.g. chemical, oil refining, oil and gas production, pulp and paper, and non-nuclear power generation.

Skills You Will Learn:

- ◇ Understand the applicability, content, and benefits of using the IEC 61511 standard
- ◇ Understand the Safety Lifecycle
- ◇ Understand risk assessments
- ◇ Understand layers of protection and SIL selection
- ◇ Understand the SRS document and the SIS design phase
- ◇ Develop a knowledge of functional safety management

Course Topics:

- ◇ Introduction to IEC61511, what it contains, when it is applied
- ◇ How it relates to IEC61508
- ◇ the differences with ANSI/ISA 84.01. Safety Life Cycle, Hazard and Risk analysis, tolerable risk
- ◇ risk reduction,
- ◇ Intro to LOPA,
- ◇ Safety Instrumented Functions and Safety Integrity Level selection using Qualitative techniques.
- ◇ Safety related hardware, software, and SIS architectures,
- ◇ Safety requirements specification – objectives and requirements
- ◇ Conceptual and detailed design issues
- ◇ Installation and commissioning,
- ◇ safety review validation, operation and maintenance, modification and decommissioning.

Who Should Attend:

- ◇ Control Engineers
- ◇ Automation Maintenance and Staff

Length: 2 Days **Cost:** TBD

COURSE MATERIALS PROVIDED

Learning from the Experts



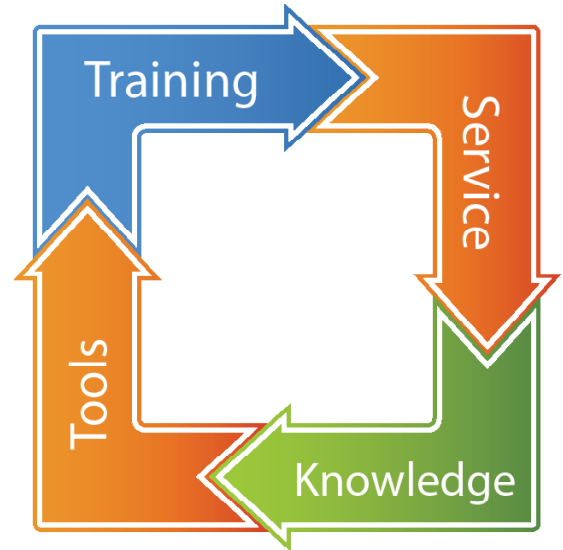
Experience has shown that most companies benefit from training as the first step in implementing a safety program. Having a solid up-front understanding of the Safety Life Cycle, the related standards and requirements for compliance, and the equipment selection and certification options ensures a focused and cost-effective safety initiative. And when you rely on exida for this knowledge, you gain access to some of the world's top experts in functional safety.

exida employees have written the books used for evaluating automation safety and reliability, they helped write the standards used for designing safe and secure systems, and they wrote many of the procedures used to certify the effectiveness of system hardware. They give the lectures and symposia that train industry's top professionals and present the latest developments. And since exida instructors are active safety professionals who participate in standards committees and provide professional safety services, the training reflects the most current and pressing issues.

exida delivers your training flexibly to accommodate your time and budget. Options include training courses delivered at your location, at an exida office, and through computer-based training modules. Example course topics include:

- The IEC 61508 and IEC 61511 Standards
- Hazard and Risk Analysis
- Safety Integrity Level (SIL) Selection
- Functional Safety Life Cycle Management
- CSFE (Certified Functional Safety Expert) preparation

exida also regularly publishes white papers and text books to facilitate learning on key topics, such as the best-selling book Safety Instrumented System Verification and the recently published book Final Elements and the IEC 61508 and 61511 Standards.



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