

Training: Safety Instrumented System

Functional Safety for Process Industry according to IEC 61511

COURSE OBJECTIVE

This training imparts principles and implementation of Safety Instrumented System, Functional Safety for process Industry according to IEC 61511. Details and terms of the standards IEC 61508 and IEC 61511 will be explained in a clear and intelligible context.

COURSE CONTENT

- · Risk and Safety
 - How much safety is needed?
 - Risk Reduction Factor
 - Risk graph acc. to IEC 61508-5 / IEC 61511
- Terminologies and application
 - FS: Functional Safety
 - SLC: Safety life-cycle phases
 - SIS: Safety Instrumented Systems
 - SIL: Safety Integrity Level
 - SIF: Safety Instrumented Functions
 - -FSA: Functional Safety Assessment
- Management of Functional Safety
 - Policy and Strategy
 - Organization and resources
 - Risk evaluation and management
 - Safety Planning
 - Implementing and monitoring
 - Functional Safety Assessment
 - Functional Safety Audit and Revision
 - SIS configuration Management
- International Standard IEC 61511
 - Application Area
 - Proven in use
 - Normative requirements to SW-development
 - Validation
 - Verification
 - Safety-related parameter
 - Hardware Fault Tolerance
 - Safe failure fraction (SFF)
 - Probability of failure on demand (PFD AV)
 - Coherence of PFD_{avg} and Proof Test Interval (PTI)
 - Structural requirement of subsystems
 - Validation of safety-related parameter

RECOMMENDED PARTICIPANT

- Role: Engineers, technicians and managers, for sales, marketing, quality, project, products, design, implementation, commissioning, operation and maintenance
- **Industry:** Process industry (oil & gas, oil refinery, chemi-cals, chemical Storage, LNG, FPSO, power plants)
- Pre-requisite: nil

COURSE DETAILS

Duration	Two full-day
Location	Online
Certification	Certificate of Attendance, upon 100% attendance

TRAINING PROVIDER

TÜV Rheinland is a well-recognized certification body for the Functional Safety Products, Functional Safety Appli-cations and Functional Safety Management System. In addition, TÜV Rheinland Functional Safety Training Program is the only vocational training for Functional Safety that is acknowledged worldwide.

REGISTRATION

Contact us now for more

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