

exida Can Show you the Way



Open enrollment exSILentia® Safety Lifecycle Engineering Tool Training

The exSILentia® Safety Lifecycle Engineering Tool is a powerful aid for any engineer involved in safety lifecycle tasks such as PHA, SIL selection, Safety Requirements Specification, SIL verification, and operational aspects like proof testing. exida developed a three-day training course to cover the basics of functional safety and familiarize users with all facets of the exSILentia® software to ensure efficient implementation of Safety Lifecycle tasks.

Objective

To familiarize exSILentia® users with tool features and general functional safety concepts, e.g. SIL selection and SIL verification, resulting in improved efficiency of Safety Lifecycle tasks.

Target Audience

Individuals responsible for using exSILentia to perform Safety Lifecycle tasks. These individuals may include the Safety Lead, Conceptual Design Engineer, Requirements reviewer, or other people involved in completing the respective Safety Lifecycle tasks.

Length: 3 days, 9:00 AM to 5:00 PM

Date: September 21-23, 2010

Location: Germany, place TBD

Facilities: Morning snacks, lunch, and afternoon snacks included

Course Structure

Day 1: Overview of Functional Safety / IEC 61511 safety lifecycle

Day 2: Advanced features of exSILentia I

Day 3: Advanced features of exSILentia II

exSILentia®
Integrated Safety Lifecycle Tool



Course Contents

Overview of Functional Safety / IEC 61511 safety lifecycle

- ◇ What is a SIF/SIS
- ◇ Applicable standards
- ◇ Complete overview of the safety lifecycle
- ◇ How to achieve compliance with 61511
- ◇ Conceptual design, Equipment Selection / Justification

Advanced features of exSILentia

- ◇ Documenting IEC 61511 compliance
- ◇ exSILentia Structure (Projects, Safety Instrumented Functions)
- ◇ Audit Trail
- ◇ SIL selection (SILect) (Specifying Tolerable Risk, Determining target SIL level)
- ◇ SIF Safety Requirements Specification (SIF SRS)
- ◇ SIL verification (SILver) (Determine Achieved SIL, SIL verification Details, SIF Parts / Group Options, Selecting equipment from the SERH database, SIL verification Support Utilities)
- ◇ Generating Reports (Report option, Languages)
- ◇ Software Updates (Functionality Updates, Safety Equipment Reliability Handbook Updates)
- ◇ SERH Viewer
- ◇ PHA documentation (PHAX, PHA Import, Linking PHA items to SIFs and Alarms)
- ◇ Alarm Rationalization (SIL Alarm, Linking Alarms to IPLs)
- ◇ Process and Design Safety Requirements Specification (Process SRS, Design SRS, Cause and Effect Matrix)
- ◇ Proof Test Generator
- ◇ Lifecycle Cost Estimator
- ◇ Complete exSILentia SLC example
- ◇ Complex (?) SIL verifications
- ◇ Conceptual Design – SIL verification Exercise

Registration

Course attendance is limited, and classes are filled on a first-come first-served basis. Enrollment is confirmed upon receipt of payment. We recommend registering at least 4 weeks prior to course date.

Tuition

exSILentia Training per student US \$ 1,250.00

Purchase via exida online store, pre-payment is required

Terms and Conditions

A 25% cancellation fee will be charged for cancellations less than four weeks prior to the course start date. No refunds can be given for cancellations less than two weeks prior to the course, although substitutions are allowed. Registration fees include course materials, coffee breaks, lunches, and a course certificate. Hotel, travel and other related expenses are the participant's responsibility. Training location, hotel information, and travel directions will be provided to registrants. Please let us know in advance if you have any special access or dietary needs. exida reserves the right to cancel courses, change course dates, course locations, prices, and course content at its sole discretion without notice.