
COURSE DESCRIPTION

T148 - End user appreciation and awareness in Functional Safety Assessment (FSA)



This course will provide an understanding of the principles of FSA from the end users perspective, and how to manage the requirements in the context of safety-related systems projects and safety applications.

Course duration

The duration is 1 day.

Course type

This is an instructor led course with interactive classroom discussions and practical examples of implementation of FSA.

Delegate profile

This training is targeted to end user / EPC control and systems engineers, application engineers and safety auditors who will be involved in assessing safety system application projects.

Prerequisites and recommendations

Delegates should have knowledge and experience of working on automation projects, procedures and systems. Basic knowledge of safety systems, safety standards and document auditing techniques is an advantage.

Course objectives

Upon completion of this course, delegates should be able to:

- Understand the need for independent verification and validation of the safety lifecycle for SIS design and engineering in compliance with IEC 61508 / 61511
- Appreciate the principles of functional safety management and the key features of lifecycle planning, safety auditing and safety assessment
- Describe the requirements and differences between the safety lifecycle requirements for 'safety audits' and 'safety assessments'
- Understand the key processes, expectations, independence and deliverables for the specific application of design and engineering lifecycle phase 'FSA'

Topics covered

- Functional safety standards and the end user
- Awareness of the impact of the assessment activity on the functional safety of safety projects
- The role of FSA in overall Verification and validation of SIS
- Introduction to the techniques necessary to carry out FSA's
- Competency requirements in FSA
- Process and deliverables from functional safety audits and assessments
- Worked examples

How to order

Please contact ABB University as listed below for either attendance at any open course being planned in your region or if you would like to run a training course specific to your organisation.

For on-site training, a fixed price training proposal will be issued to you for your approval to proceed.

ABB University

<https://new.abb.com/service/abb-university>
ABB University Course Code - T148



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