

COURSE DESCRIPTION

T141 - Functional safety SIL verification

One day training course



This course provides detail and understanding for the requirements of safety device selection, interpretation of device SIL capable certificates and the requirements of 'SIL verification' in the context of meeting architectural constraints, failure rate measures and systematic capability for the process industry sector.

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 safety system requirements.

Delegate profile

This training is targeted to control and systems engineers, instrumentation and application engineers who are responsible for the selection of devices for Safety Instrumented Functions (SIFs) and/or verification of the achieved SIL of the SIFs.

Prerequisites and recommendations

Previous attendance on the ABB T145 training course would be beneficial but this is not a necessary condition. Delegates should have knowledge and experience of working on automation and control applications, projects and systems. A good understanding of safety systems and safety standards is an advantage.

Course objectives

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

- Identify the key data requirements for developing a solution that meets the Target SIL as defined in the Safety Requirements Specification (SRS)
- Be able to correctly interpret and use safety device SIL certificates and reports
- Present a number of worked examples for SIL verification and assessment

Topics covered

- Safety requirements
- Design essentials for SIL
- SIL compliance to IEC 61508
- SIL verification requirements
- Device SIL certification
- SIL verification exercises

How to order

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

On completion of discussions, a fixed price training proposal will be issued to you for your approval.

For further information please contact:

ABB FSM Technical Authority

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