

# T141 Functional Safety Achieved SIL Assessment

The goal of this course is to build on the principles of functional safety management as found in the supporting SLCC course 'T140' focusing on the implementation of the safety lifecycle in the context of safety-related systems projects and safety applications.

This course provides additional detail and understanding for the requirements of 'Achieved SIL' in the context of meeting architectural constraints, failure rate measures and systematic capability for safety-related design solutions.

### 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 systems.



### Participant profile

This training is targeted at control and systems engineers, instrumentation and application engineers who will be involved in executing safety system application projects.



### Prerequisites and Recommendations

Previous attendance on the T140 training course would be beneficial. Students 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, students will be able to:
- Identify the key data requirements for developing a solution that meets the Target SIL as defined in the earlier safety requirements specification (SRS)
  - Present a worked example for Achieved SIL assessment

### Course Outline

Topics Covered
Safety Requirements
Design Essentials for SIL
SIL Compliance to IEC 61508
SIL Achievement Requirements
Multi Choice Exercise
SIL Achievement Exercise

### How to order

Please contact the Safety Lead Competency Centre 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.

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