

Phase 2: Specification

Creating and checking hardware and software technical specifications

AUTOMATION

Product information
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Over 44% of all dangerous errors on machines are a result of the incorrect specification of the safety functions.

In order to prevent these systematic errors, all safety functions must be fully and clearly specified in technical specifications.

Since incorrect technical specifications can also lead to systematic errors, however, it is essential to check the technical specifications for hardware and software for plausibility and correctness.

These measures are described in the sector standards for the functional safety of machines as a specification of the functional requirements and design verification for hardware and software.

This is important if you are responsible either for the functional safety of machines or the documentation, or if you are a project manager, planner, designer or tester of safety functions.

User benefits

Our safety experts ensure that you have a well-structured and sound basis for further procedures.

This means:

- A reduction in systematic errors
- Standardized technical specification templates
- Structured tracking and checking of the implementation
- Documentation of the test results
- Conformance with standards
- Time savings
- Fewer resources used

Requirement

For the moderation or creation and checking of the technical specifications, the risk reduction measures must be clearly and unambiguously defined in a risk assessment (phase 0). In order to provide verification in relation to SIL/PL, the information required must be specified in the technical specifications.

Description of performance

Based on your requirements, we will support you during the creation, testing, and release of the hardware and software technical specifications for your technical safety equipment/safety functions.

We offer competent and comprehensive advice in relation to the document structure and content required in order to specify your safety functions completely, clearly, and therefore verifiably. You will also receive information on how the technical specifications have to be checked in order to be released and enable the implementation of the safety functions.

We will be happy to work with you to draw up the technical specifications or provide verification in relation to SIL/PL, or check documents by means of inspections and document the results in inspection reports. You can then reference these inspection reports when revising the technical specifications and releasing the documents.

Duration

The duration of our services depends on your requirements. We discuss your machine experts' previous experiences to agree on the time required for your individual case. This may be a general consultation lasting half a day or may involve intensive consultation or process support over a number of days.

For large-scale projects we are also happy to provide support for a longer period.

Costs

We will be happy to prepare a non-binding quote for you. To request this, speak to your personal sales partner directly or contact our headquarters in Blomberg.

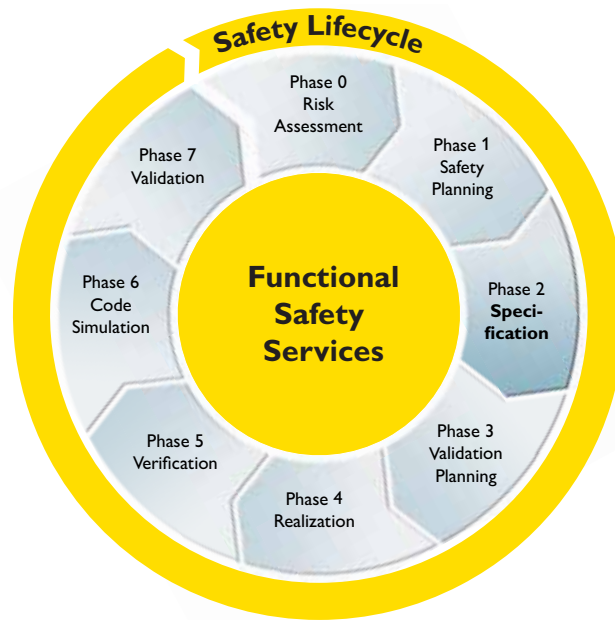
Do you want to expand your in-house expertise?

The following training will help you to draw up specifications:

Safety Lifecycle P2-P4	Order No. 2700792
Functional Safety EN 13849-1	Order No. 2700507
Functional Safety Workshop	Order No. 2700508
SISTEMA User Course	Order No. 2700511
IB Safety System Course	Order No. 2884651
PROFIsafe System Course	Order No. 2692335

By offering you custom-made training tailored precisely to your needs, we can impart the specific knowledge you need for your safety environment.

The following may also be of interest to you when it comes to the safety lifecycle of your application:



Do you want to find out quickly whether you are on the right track to achieving functional safety? Then simply use our functional safety app check! By using a checklist, you can find out interactively whether you meet the essential requirements of the Machinery Directive. Simply search for the term *Safety* in the App Store.