



## FS 101 | Functional Safety for maintenance and operation

# TrainingFacts

## Functional Safety – A question of qualification

Personnel qualification is essential for functional safety. To prevent hazardous incidents, current standards such as the statutory order on hazardous incidents or IEC 61508/11 increasingly demand proof of adequate training for operating staff at all levels and in all areas.

This HIMA training course helps you demonstrate your functional safety competence.

Supported by a range of practical examples, it provides employees working with safety instrumented systems (SIS) the basic principles, informing them about current standards, their requirements and the use of modern tools, technologies and methods.

## Course Content

### Introduction/Basics

- Presentation of relevant standards
- What is risk and how to handle it?
- Manage safety properly

### Analysis

- Identification of hazards and classification
- Examples using HAZOP, risk matrix and risk graph

### Realisation

- Basics for specification
- Considerations about software design?
- Key elements for operation
- Checklists: a universal aid?

### Validation/Operation

- Safety must be ensured during plant operation
- Proper (important) recording of faults
- Fault analysis
- Proof tests

FUNCTIONAL SAFETY-TRAINING  
FS 101 | FUNCTIONAL SAFETY  
FOR MAINTENANCE AND OPERATION

### Dates in 2018

Date	Location	Country	Language
Dates on request			

### Duration

1 day  
Begin: 08:30 pm  
End: 16:30 pm

### Number of participants

- Min. 4 participants
- Max. 8 participants

### Prices 2018

- 590,- € per person

### Services

- Paper copies of training documentation
- Refreshments and lunch

### Participant profile

- Operating staff (plant management, shift supervisors, plant operators, on-site personnel, etc.)
- Measurement and regulating staff
- Planning staff with no particular focus on functional safety, including:
  - Process engineering planning
  - Mechanical construction/installation
  - Operational implementation

### Tailored training

- Course also possible on-site when space and appropriate technical equipment are available (price upon request)
- Individual course focus possible for closed groups

### Further courses on this subject

- Functional Safety Engineer (TÜV Rheinland) (FS 132) – 4 days
- Use of machinery in the process industry (FS 121) – 1 day
- Basic knowledge in Functional Safety (FS 111) – 1 day

### Registration and Contact

General terms and conditions as well as registration at <https://www.hima.com/en/products-services/seminars/> or using our registration form.

For any other questions please contact:

E-Mail: [training@hima.com](mailto:training@hima.com)

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