

FS 132 | Functional Safety Engineer (TÜV Rheinland)

Training Facts

Safety Instrumented Systems (SIS) Training of the TÜV Rheinland Functional Safety Program

International standards as IEC 61508 and IEC 61511 require your ability to demonstrate competency for all steps of the Safety Lifecycle, where you are involved. HIMA is an accepted course provider of the TÜV Rheinland Functional Safety Program. This training will provide you with valuable skills and knowledge which can be used in your daily activities.

The course has been developed to provide an overview of current industry standards, functional safety concepts and current tools used to determine safety integrity levels (SIL), while applying industry recognized techniques and methodologies.

Due to COVID-19 travel restrictions, online courses are available with “Contact Classroom” based training and exam. In this model, a “Contact Classroom” is organized by HIMA at the local training venue where training participants are physically required to be present to attend the online training sessions and a paper-based written examination. Selected candidates may be required further attend an online interview and viva-voce depending on their exam scores to fulfil certification requirements.

Participant requirements

- A minimum of 3 years of experience in the field of Functional Safety
- University degree or equivalent engineer level responsibilities status as certified by employer

Certificate

The training is run by our team of FS Experts all with practical experience gained over many years.

The successful completion of the final exam will provide you with a “FS Engineer (TÜV Rheinland)” certificate.

Acquiring your certificate through a HIMA training course, will let you benefit from the Functional Safety competence of a world leader in safety-related automation solutions.

Course Content

- Introduction to Functional Safety, standards, basic terms and definitions
- Functional Safety Management (Safety Lifecycle, competence, independence, verification, validation, modification, etc)
- Hazard and Risk Analysis
- Safety Requirement Specification (SRS)
- Safety Instrumented Systems (SIS) hardware design (SFF, HFT, architectures, choice of equipment, prior use, certified modules and PFDavg)
- Software design (specification, design, testing, etc)
- SIS Security
- Operation and Maintenance (repair, proof test, bypasses, etc)

Dates in 2021

Date	Location	Country	Delivery Type
22.02-26.02.2021	Perth	Australia	Contact Classroom
22.03-26.03.2021	Brisbane	Australia	Contact Classroom
03.05-06.05.2021	Singapore	Singapore	Classroom
12.07-6.07.2021	Kuala Lumpur	Malaysia	Contact Classroom
02.08-06.08.2021	Perth	Australia	Contact Classroom
30.08-03.09.2021	Brisbane	Australia	Contact Classroom
20.09-24.09.2021	New Plymouth	New Zealand	Contact Classroom
26.10-29.10.2021	Singapore	Singapore	Classroom
06.12-10.12.2021	Tokyo	Japan	Contact Classroom

Duration

3.5 days – classroom
Duration: min. 8 hours/day
Begin: Tuesday 9:00 am
End (test): Friday noon

4.5 days – Contact classroom
Duration: min. 6 hours/day
Begin: Monday 9:00 am
End (test): Friday noon

Number of participants

- Min. 6 participants
- Max. 15 participants

Prices 2021

For a quotation and detailed course description please contact our Training Center

Services

- Paper copies of training documentation
- Refreshments and lunch
- Participation certificate issued by HIMA
- FS Engineer (TÜV Rheinland) certificate upon achieving the required pass mark in the final exam

Participant profile

- Persons involved in analysis, design and operation of safety instrumented systems.
- Site and quality managers
- System integrators and independent consultants
- Process and control engineers
- Risk, reliability, safety, and quality engineers
- Loss prevention engineers
- Anyone interested in a Functional Safety Engineer (TÜV Rheinland) certificate

Theory and practice

In addition to the theoretical part, the training course contains practical parts which cover, among others:

- Hazard & Risk Analysis (HAZOP / Risk Graph / FMEA)
- Allocation, design, selection of devices and verification of safety functions

Further courses on this subject

To prepare for the Safety Instrumented Systems (SIS) Training of the TÜV Rheinland Functional Safety Program, HIMA recommends the 1 day introductory courses:

- Basic knowledge in Functional Safety (FS 111) – 1 day
- Functional Safety for Maintenance and Operation (FS 101) – 1 day
- Functional Safety Technician Course – 3.5 days

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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.au@hima.com

Disclaimer:

HIMA reserves the right to reschedule a course due to COVID-19 travel restrictions and if the minimum number of registrations are not met or received four weeks prior to the course date.