

TUV Certified IEC 61511 Functional Safety for Safety Instrumented System Professionals training course

As part of the TUV SUD Functional Safety Certification Program, =Method offer the Functional Safety for Safety Instrumented Systems Professionals training course. The course is universally recognised as the essential qualification for professionals and engineers working with any aspect of the Functional Safety lifecycle in the Process and Power industries. The course provides an overview of the IEC 61511 lifecycle and details how key aspects such as Verification, Validation, Functional Safety Assessments and Audits can be practically implemented. On successful completion of the course and the examination, candidates that can demonstrate adequate level of experience will achieve the "TUV Functional Safety Professional" award. Certification takes place in cooperation with TUV SUD.

The Course is structured over 3 days of class room training, with a 4-hour exam on the 4th day.

Course Cost

The cost of £2050 + VAT includes all course materials, examination and final certificate. Lunch and refreshments are included, but not overnight accommodation or evening meal costs.

Course Content

- Functional safety management**
- Hazard & Risk Analysis**
- Planning the safety system**
- Hardware design**
- Hardware reliability**
- Software design**
- Operation and maintenance**

Who should attend

Engineers and professionals who require a broad level of knowledge and may be responsible for functional safety, its principles and methods, within their workplace.

Pre qualification

There are no formal pre-requisites to start the training - we assume no prior knowledge, but of course experience of Functional Safety in general and the IEC 61511 standard is advantageous.

To achieve TUV FSP status, you must attend the course, pass the exam and demonstrate the correct number of years of relevant experience, which are:

- 6 years experience in the applicable industry
 - Education gives credits
 - Bachelor degree deduct 2 years
 - Masters degree deduct 3 years
 - Ph.D. degree deduct 4 years
 - Two references and comprehensive CV must be submitted prior to attending the course

Exam format

- Closed book exam
 - Multiple choice: 60
 - Open questions: 25
 - Pass criteria: 75%

After this workshop you will be able to

Communicate the essential elements of functional safety to your colleagues and management:

- Apply functional safety management
- Understand and play a role in hazard and risk analysis
- Determine the required SIL with risk graph and matrix methodologies
- Understand how to verify and validate safety instrumented systems
- Understand the basic requirements of the functional safety standards
- Create basic designs of safety instrumented systems, taking into account architectural constraints
- Understand the effect of redundancy, diagnostics, proof test intervals, hardware fault tolerance on the SIL
- Understand the routes by which devices can be shown to be compliant

What you will get

All delegates receive:

- The course material in printed format
- A Certificate of Attendance or, upon successful completion of the exam, a TUV SUD Functional Safety Professional certificate and a listing on the TUV SUD website

- The TUV SUD certificate is valid for life

Course Enquiries

If this course is of interest or you have any questions, please contact us or go online and reserve a place on one of our courses.