



EN ISO  
13849

academy

## Qualification as a Functional safety engineer

Schmersal is an accepted course provider for the “Functional Safety of Machinery” training course of the TÜV Rheinland Functional Safety Training Program.

During the 4-day training (in person) / 8-day training (online) participants will experience theory, practical examples, discussions on General Machine Safety based on ISO 12100 and Functional Safety according to ISO 13849 and IEC 62061, added to by all the knowledge and experience of the trainers and the course provider.

Engineers with proven experience in Machine Safety and Functional Safety will go in-depth into the requirements, the demands of international standards and, by passing a final exam, will receive an official Functional Safety Engineer (TÜV Rheinland) certificate, confirming their knowledge.

International regulations, basic risk assessment concepts, examples of protective equipment for machinery, safety functions, circuit designs, Performance Level (PL) and Safety Integrity Level (SIL) calculations will be described, discussed, designed, and tested during the course.

### Who should attend?

Professionals with proven experience in machine and functional safety (application engineers, system integrators, designers, safety specialists) who wish to test and certify their knowledge with an official international certification.

### Course objectives

This training course has been developed to create high-level knowledge in:

- Risk assessment and reduction
- Specifying machine guarding
- Developing safety functions
- Performance level calculation and validation
- Calculation and validation of the Safety Integrity Level

tec.nicum staff are available to support all learners and answer any questions regarding a training session Monday through Friday between the hours of 8:30am & 4:45pm EST, or during any learning event.

### Course information

**Four day seminar in person or eight day seminar online**

Upon successful completion,

participants can prove their acquired qualification as an Functional safety engineer by means of a certificate issued by TÜV Rheinland®.

**this course is conducted in English**



tec.nicum is accredited by IACET to the **ANSI/IACET 2018-1 Standard for Continuing Education and Training**.

**Disclosure of Proprietary Interest:** Prior to the start of any training, it will be disclosed to participants any proprietary interest in the products, instruments, devices, services or materials discussed. In addition, the instructor will also indicate any source of compensation related to the presentation.

**Intellectual Property:** Schmersal, Inc. has guidelines in place to help ensure that instructors, consultants and learners have appropriate information and resources about the use of intellectual property and copy-righted materials.

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