

# TÜV Rheinland Functional Safety Training Program



## Topic: Functional Safety of Machinery – Training Functional Safety Engineer (TÜV Rheinland)

Omron Automation Americas (United States) is an accepted course provider of the worldwide acknowledged TÜV Rheinland Functional Safety Training Program.

### General Information about this Training

As your trusted partner in automation and safety, Omron is offering TÜV Rheinland Functional Safety Training to help engineers and maintenance personnel keep their knowledge current and increase their credibility. The program includes detailed coursework designed to prepare professionals for the rigorous TÜV Rheinland Functional Safety Exam.

Omron builds upon the standard TÜV Rheinland Certification Program with an additional 5 days of classroom instruction and 7 weeks of webinar-driven self-study on the job. The TÜV Safety Exam is offered at the conclusion of the 9-week training.

### Who Should Attend?

Design engineers, process engineers and safety engineers as well as operating and maintenance personnel who are involved in any of the safety lifecycle phases for safety systems from hazard and risk assessment, shut down system/fire and gas systems design to testing maintenance.

### Participant Eligibility Requirements

In accordance with the TÜV Rheinland Functional Safety Training Program: Participants should have a minimum of 3 years of experience in the field of functional safety and a University degree or equivalent engineering experience and responsibilities as certified by employer or engineering institution.

### Certificate

Participants who fulfil the requirements, attend the complete training and pass the exam successfully will get the FS Engineer (TÜV Rheinland) certificate with an individual ID number.

Holders of this certificate will be listed at the TÜV Rheinland website [www.tuvasi.com](http://www.tuvasi.com) "List of FS Engineers".

# OMRON

**Date:** 24 September, 2018

**Location:** Hoffman Estates, IL

**Fees:** \$5,000

### Trainer

Tina Hull is an accepted FS Expert (TÜV Rheinland) in the area of Safety Instrumented Systems and PH & RA and has over 20 years of experience in process and applications engineering.

As a Product Engineer for Omron, she contributes to numerous safety standard committees responsible for incorporating new technology and advancing safety training.

**To register, please contact your local Omron distributor.**

## Boost Your TÜV Exam Passing Rate with an Expanded Training Program

The TÜV Functional Safety Exam is notoriously difficult, even for those who just completed the standard four-day training program. That's why Omron is offering a significantly enhanced training program. With an additional five days of classroom instruction plus a seven-week period of self-study guided by expert webinars, Omron provides the tools your team needs to be successful at passing the certification exam.

The benefits of Omron's training extend well beyond the exam success rate. With seven full weeks of self-study for applying the concepts learned in the first five days of classroom instruction, participating engineers can develop a deep, hands-on understanding of functional safety before the exam day. This guarantees a much better retention of key safety concepts throughout an engineer's entire career to ensure compliant and safe machine design.

### Program Structure at a Glance

1. Participants complete 5 days of classroom instruction.
2. Participants return to their jobs to complete 7 weeks of self-study guided by webinars on important TÜV safety topics.
3. Participants come back to the classroom for the standard 4 days of TÜV instruction.
4. Participants take the TÜV Functional Safety Exam.

### Webinar Topics

1. Standard types, risk assessment and machine directives
2. Fixed guards and E-stops
3. ISO 13849-1
4. Functional safety management and software
5. ISO 62061
6. Questions sent in by participants
7. Final week preparation, including TÜV material and test expectations

### Course Objectives

Upon completion of this training program, participants should be able to:

- List risk assessment requirements and be able to thoroughly conduct a risk assessment
- Correctly identify, interpret and apply the standards for functional machine safety
- Identify appropriate risk reduction measures commensurate with level of risk
- Identify safety devices and their proper applications per current standards
- Create a safety circuit design and distinguish between various safety categories
- Explain how different architectures and designs affect safety levels
- Identify and execute the required safety calculations
- Apply the hierarchy of controls

For more information about getting TÜV certified, please contact our local Omron account manager.

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