



TÜV RHEINLAND Functional Safety for Technicians

Gain expertise in
Safety System Maintenance

Comprehensive **two-and-a-half-day**
training with exam



Develop your team's expertise on safety products



Ensure the proper maintenance of your safety systems



Demonstrate your commitment to employee development

TÜV Rheinland Functional Safety Training Program

Grow your team's confidence with much-needed skills

With TUV Rheinland certification, you can give your team the confidence they need to work with safety products and their corresponding applications. Participants will learn how to maintain machine safeguarding devices and safety-related controls to meet standard requirements.

Coursework will cover the following topics:

- General safety concepts
- Advantages and disadvantages of various safety components
- Validation of operation for common safety components
- Safe distance calculation
- Maintenance and repair of safety systems
- "Safe" modification of existing systems for temporary situations

Training will encompass **2.5 days** with an exam at the end. Successful students will receive **TUV Rheinland Certification** as a **FS Technician** and will be listed on the TUV Rheinland Certipedia.



• Origins of Harm • Hazard vs Risk • Tolerable Risk • ISO 13849-2 Annex A • Types of Guards	• Emergency Stop • Stop Categories • ISO 13849-2 Annex D • Performance Levels • Fault Detection • Redundancy vs Diversity	• Fail to safe • Safe Relays • Safety Logic Controllers • Fault Detection "Monitoring" • Processor Faults • Common SPLC faults	• Dry contact safety switches • Guardlocking Switches • Solid state switches • Faults • Best Practices	• Bumpers • Safety Mats • Mats, Bumpers, Edges • Light Curtains • Safe Distance • Laser Scanners	• Force Guided • Relays • EDM • VFD Overview • STO • Other VFD Safety Functions	• Safety function • Validation • Fault lists • Performance Level Requirements • Test sheets • Documentation
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Give your valued employees some valuable credentials

TUV Rheinland Certification is a solid testament to the skills and knowledge of your team members and will help bolster your company's overall reputation. Omron is proud to be a trusted partner in functional safety training for industry professionals.

Who should participate in the TUV Rheinland Functional Safety for Technicians program?

The program is ideal for the following professionals:



Maintenance personnel
who need confidence in
maintaining and validating
safety systems



EHS managers
seeking an understanding
of general requirements



Plant engineering teams
in need of a stepping-stone
towards TUV Functional
Safety Engineering



HR departments
interested in furthering
employee development
and retention while adding
value to the organization

