

Gain expertise in
Safety System Maintenance

OMRON



TÜV Rheinland Functional Safety for Technicians

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



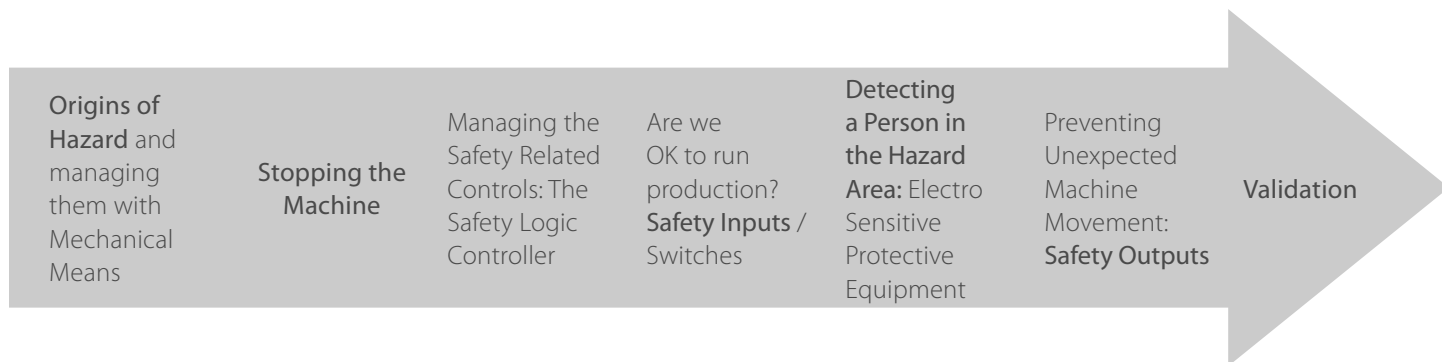
Grow your team's confidence with much-needed skills

With TÜV 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 TÜV Rheinland Certification as a FS Technician and will be listed on the TÜV Rheinland Certipedia.



<ul style="list-style-type: none"> • Origins of Harm • Hazard vs Risk • Tolerable Risk • ISO 13849-2 Annex A • Types of Guards 	<ul style="list-style-type: none"> • Emergency Stop • Stop Categories • ISO 13849-2 Annex D • Performance Levels • Fault Detection • Redundancy vs Diversity 	<ul style="list-style-type: none"> • Fail to safe • Safe Relays • Safety Logic Controllers • Fault Detection "Monitoring" • Processor Faults • Common SPLC faults 	<ul style="list-style-type: none"> • Dry contact safety switches • Guardlocking Switches • Solid state switches • Faults • Best Practices 	<ul style="list-style-type: none"> • Bumpers • Safety Mats • Mats, Bumpers, Edges • Light Curtains • Safe Distance • Laser Scanners 	<ul style="list-style-type: none"> • Force Guided Relays • EDM • VFD Overview • STO • Other VFD Safety Functions 	<ul style="list-style-type: none"> • Safety function • Validation • Fault lists • Performance Level requirements • Test sheets • Documentation
---	--	---	--	---	---	--

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



OMRON AUTOMATION AMERICAS HEADQUARTERS • Chicago, IL USA • 847.843.7900 • 800.556.6766 • automation.omron.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • automation.omron.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE

Ciudad de México • 52.55.5901.4300 • 01.800.386.6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE

San Pedro Garza García, N.L. • 81.12.53.7392 • 01.800.386.6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE

Eugenio Garza Sada, León, Gto • 01.800.386.6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE

São Paulo, SP, Brasil • 55 11 5171-8920 • automation.omron.com

OMRON ARGENTINA • SALES OFFICE

Buenos Aires, Argentina • +54.11.4521.8630 • +54.11.4523.8483
mela@omron.com

OTHER OMRON LATIN AMERICA SALES

+54.11.4521.8630 • +54.11.4523.8483 • mela@omron.com

Authorized Distributor:

Controllers & I/O

- Machine Automation Controllers (MAC) • Motion Controllers
- Programmable Logic Controllers (PLC) • Temperature Controllers • Remote I/O

Robotics

- Industrial Robots • Mobile Robots

Operator Interfaces

- Human Machine Interface (HMI)

Motion & Drives

- Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
- Frequency Inverters

Vision, Measurement & Identification

- Vision Sensors & Systems • Measurement Sensors • Auto Identification Systems

Sensing

- Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
- Rotary Encoders • Ultrasonic Sensors

Safety

- Safety Light Curtains • Safety Laser Scanners • Programmable Safety Systems
- Safety Mats and Edges • Safety Door Switches • Emergency Stop Devices
- Safety Switches & Operator Controls • Safety Monitoring/Force-guided Relays

Control Components

- Power Supplies • Timers • Counters • Programmable Relays
- Digital Panel Meters • Monitoring Products

Switches & Relays

- Limit Switches • Pushbutton Switches • Electromechanical Relays
- Solid State Relays

Software

- Programming & Configuration • Runtime