



USA / Canada

**tec.nicum academy**

**Training courses for machine safety  
and occupational health and safety**

**tec.nicum**  
Schmersal Group



# Education tec.nicum academy



## Training and seminars

**Machine safety can be challenging and complex for both machine builder and end user. As an industry solution provider, Schmersal takes pride in providing the necessary skill sets to our customers in order to make them more fluent in machine safety. For many years our motto has been Turning Workplaces into Safer Places and we welcome the opportunity to help provide the means to achieve this goal. We understand the value of educating our customers with the knowledge and know-how to properly provide a safer working environment.**

**The tec.nicum academy offers a series of safety training courses designed to educate people on machine guarding practices and principles consistent with current national and international machine safety standards.**

## In Person Training Sessions

Our courses will be offered in various locations across the US throughout the calendar year; Our website will have a current listing of upcoming dates and locations. We can also tailor the content and duration of sessions to focus specifically on a customer’s needs for in-house presentation.

You can find the courses currently available on the following pages or on our website:  
[schmersalusa.com/service/tecnicum-engineering-services](https://schmersalusa.com/service/tecnicum-engineering-services)

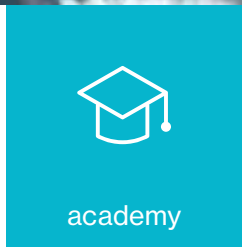
## Continuing Education Credits

**tec.nicum** is accredited by IACET to the ANSI/IACET 2018-1 Standard for Continuing Education and Training (CE/T) and offers Continuing Education Units (CEUs) for some courses. In order to receive CEUs, learner must be present for the entirety of the course (with a functioning camera for virtual event) and successfully pass the course exam with a minimum score of 80%.





# Training courses tec.nicum Online Academy



The **tec.nicum** online academy is a self-paced learning platform, which features versions of flagship trainings, such as the one-day General Machine Safety course. Additionally, there are self-paced courses on topics of general Industrial Safety, such as lockout/tagout, confined space, Electrical Safety & fall protection. More courses will be added regularly.

Every course allows for group discussions to dive deeper into any of the topics which have been presented. Once enrolled, you will have unlimited access to all current content & all additional content released thereafter, as well as discounts on selected live trainings.

Also offered with the enrollment is access to the online forum where you will have the opportunity to communicate with peers & subject matter experts throughout the industry.

Enroll here: [tecnicumacademy.thinkific.com/](https://tecnicumacademy.thinkific.com/)





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# Training courses general occupational safety

## OSHA Outreach Training Program: General Industry

The OSHA Outreach Training Program for General Industry provides basic training for workers and employers on the recognition, avoidance, abatement, and prevention of common job-related safety and health hazards while giving a general overview of OSHA Standards. The program also provides information regarding workers' rights, employer responsibilities, and how to file a complaint. Through this training, OSHA helps to ensure that workers are more knowledgeable about workplace hazards and their rights, and contribute to our nation's productivity.

While course lesson plans are provided by the OSHA Office of Training and Education, it is important to note that this is a voluntary program and does not fulfill an employer's requirement to provide training per any specific OSHA standards. Although some states, municipalities or others may require outreach training as a condition of employment, it is not an OSHA requirement.

An OSHA authorized trainer will be presenting this training. Students receive an OSHA course completion card.



### 10-hour course

Covers common job-related safety and health hazards.

**CEUs:** 1.0  
**Duration:** 13 hours (2 Days)  
**Max Attendees:** 40  
**Sessions:** In-Person

### 30-hour course

More appropriate for supervisors or workers with some safety responsibility.

**CEUs:** 3.0  
**Duration:** 38 hours (4 days)  
**Max Attendees:** 40  
**Sessions:** In-Person



# Training courses machine safety education

## General Machine Safety



### A review of the concepts of machine safeguarding

Anyone responsible for the design, operation, or maintenance of machines needs an understanding of legal requirements, risk assessment, types of hazards, the several levels of circuit design, and available types of safety equipment and how they all come together for a complete safety solution.

- CEUs:** 0.6
- Duration:** 7 hours (1 day)
- Max Attendees:** 35
- Sessions:** In Person or Virtual (Live)

## Lock Out Tag Out



### A review of Lockout Tagout requirements.

LOTO is an OSHA legal obligation, and this course helps you understand what is required to comply. Attendees will review OSHA and ANSI regulations pertaining to the LOTO process, the required training programs and practical use.

- CEUs:** 0.6
- Duration:** 7 hours (1 day)
- Max Attendees:** 35
- Sessions:** In Person or Virtual (Live)



# Training courses machine safety education

## ISO 13849 – Understanding and Implementation



### A review of the aspects within the ISO 13849 Standard

ISO 13849 is a global harmonized standard relating to the risk assessment, design, and performance of safety control systems on machinery. This standard is accepted worldwide as the principle safety control design guideline and it represents a major change in the philosophy of hazard analysis and design of safety related parts of machine control systems.

**CEUs:** 0.6  
**Duration:** 7 hours (1 day)  
**Max Attendees:** 35  
**Sessions:** In Person or Virtual (Live)

## Understanding and Conducting Risk Assessment



### A review of Risk Assessment and performing safety audits on machines

Understanding machine hazards and having the ability to qualify and quantify them, helps you establish a tool to identify machine hazards. This class works with your team to develop a version of a tool that you can use to perform machine safety assessments. Identify the hazards, while presenting ideas on how to remedy those hazards with proper guarding measures is key to having a successful machine safety program.

**CEUs:** 1.3  
**Duration:** 16 hours (2 days)  
**Max Attendees:** 30  
**Sessions:** In Person



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### Safety Circuits and Wiring



#### A review of Control Categories and wiring safety circuits

Learn the practical use along with the theory of safety related control systems. This is a hands-on course where participants will be challenged to wire a mix of components of differing technologies to meet specific safety control requirements.

**CEUs:** 0.6  
**Duration:** 8 hours (1 day)  
**Max Attendees:** 20  
**Sessions:** In Person

### MCEExpert® (Machinery CE Certified Expert)



#### Certification course on the CE process

The MCEExpert® course breakdowns each of the essential health and safety requirements (SSRS) referred to in the Machinery Directive with the goal of understanding and complying with the CE Marking according to the Machinery Directive 2006-42. Upon successful completion of this course, the international Machinery CE Certified Expert® qualification will be issued by TÜV Rheinland®.

**CEUs:** 2.0  
**Duration:** 35 hours (5 days)  
**Max Attendees:** 35  
**Sessions:** In Person or Virtual (Live)

# excellence in safety

Functional machine safety is a complex business which involves complying with a range of standards and directives. **tec.nicum** offers all machine manufacturers, operators and distributors a completely product and manufacturer-neutral consultancy on all currently relevant statutory regulations and supports them in ensuring their machines and workplaces are designed to comply with the relevant standards.

**tec.nicum** services cover four areas, which can be obtained as individual modules or as complete packages:

- **tec.nicum academy – Learning**
- **tec.nicum consulting – Consultancy services**
- **tec.nicum engineering – Technical planning**
- **tec.nicum integration – Practical implementation**

Experts at **tec.nicum** advise and support customers and clients with training, on-site consultation, documentation and planning and implementation, such as the installation of protective equipment and safety systems.

**tec.nicum** is the Schmersal Group's service division and comprises a global consultancy network of TÜV Rheinland-certified Functional Safety Engineers and Machinery CE Experts. Services can be called upon around the world.

**tec.nicum's** core philosophy is to offer advice that is independent of manufacturers and as objective as possible.

We strive to develop the best possible safety-related solution for each individual application, to implement it and completely safeguard its intended use – always in line with our commitment “**excellence in safety – we care!**”



- Education seminars
- In-house or online training
- Customer-specific workshops
- Demonstration events
- Symposia
- Safety analysis of machines and production lines
- Conformity assessment and verification
- Risk assessments
- Technical documentation
- Technical project planning
- Validation of safety functions
- Measurements and tests
- Modernization of machines
- Safety controller programming
- Conversion / Retrofitting
- Installation of
  - safety guards
  - safety fences
- Integration of safety functions
- Maintenance and service

## Schmersal USA

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