

## Training courses

# Understanding and Conducting Risk Assessments

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

This course focuses on the process of identifying machine hazards, qualifying and quantifying the associated risks, and selecting appropriate risk reduction measures. It involves a combination of theory as well as a practical example on an actual machine on-site or a virtual machine using augmented reality (requires a free app to be downloaded on attendees mobile device).

In addition, the course helps you develop a tool which you can use to perform machine safety assessments in-house.

Upon completion of the Course, learners will be able to:

- Describe and Summarize Regulatory Standards
- Interpret Risk Assessment Principles
- Identify Hazard Types
- Define a Hazard Rating Number (HRN)
- Demonstrate an HRN calculation
- Describe Risk Reduction Methods
- Summarize Separating Guarding Principles
- Summarize Non-Separating Guarding Principles
- Compare Fixed and Movable Guards Principles
- Analyze Reaching and Guard Opening Designs
- Identify Types of Safety Interlock Devices
- Interpret Safety Circuit Designs
- Summarize Basic Fluid Power Safety
- Explain Stop Categories
- Compare Control Categories



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:

**Duration:** 16 hours  
(2 days)

**Max Attendees:** 30

**Sessions:** In person

**CEUs:** 1.3

In order to receive CEU, 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%.



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.

#### Schmersal USA

115 E Stevens Avenue, Suite 208, Valhalla, NY 10595  
Tel: 888-496-5142 | salesusa@schmersal.com  
[www.schmersalusa.com/service/tecnicum-engineering-services](http://www.schmersalusa.com/service/tecnicum-engineering-services)

#### Devin Murray

tec.nicum Services Manager  
Tel: 914-419-3731  
dmurray@schmersal.com