



**CONTROLS FOR  
FACTORY AUTOMATION**

# GENERAL MACHINE SAFETY TRAINING

A premiere distributor of products, solutions and controls for factory automation.

## 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. Let a subject matter expert for machine safety from our tec.nicum Group help you take a step into the world of machine safety with our general machine guarding course.

## Upon completion of the course, learners will be able to:

- List the 5 elements of the machine safeguarding process
- Identify responsible persons for machine safety and define the "General Duty Clause"
- Describe the different safeguarding requirements that apply for existing and new equipment
- Define the terms "hazard" and "risk". Identify the basic steps of the risk assessment procedure.
- Describe the conditions in which LOTO would apply
- Identify the 5 main considerations for mechanical safeguarding
- Describe the fundamental requirements for separating guards and associated devices used for safety
- Describe the fundamental requirements for non-separating guarding devices used for safety
- Explain the operations of relay/contactors which can be used for safety applications
- Explain the operations of monitoring devices which can be used for safety applications
- List and describe the 5 types of design Categories for a safety circuit
- Explain the terms "Fault Masking" and "Validation"; describe the various ways to wire safety output

## CEUs Offered: 0.6

In order to receive Continuing Education Units, learner must be present for the entirety of the course and successfully pass the course exam with a minimum score of 80%.

As an IACET Accredited Provider, tec.nicum offers IACET CEUs for its learning events that comply with the ANSI/IACET Continuing Education and Training Standard. 10 hours of training is equivalent to 1 CEU.

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.  
Contact: salesusa@schmersal.com or 914-419-3731

**Date:**

Thursday, April 13th 2023

**Location:**

Courtyard by Marriott  
8105 E Walnut St.  
Evansville, IN 47715

**Registration Deadline:**

Thursday, March 30th 2023

**Time:**

8am - 4pm

Check-In at 7:30am

**Cost:**

\$375 per person

Includes course materials and lunch.

**A valid ID is required to attend  
the class. Please bring your ID.**

**[CLICK HERE TO REGISTER](#)**