

Functional Safety of Machinery (ISO13849-1 / 2) Overview

SICK LifeTime Services Training Course



Description

This training module is an introduction to how current functional safety standards (ISO13849-1 / 2) dictates the design and proof of functional safety for machines. Participants are made aware of the basics of how the selection of components affects performance levels achieved based on category structure, MTTFd, diagnostic coverage, common cause failure, and standard engineering principles. Practical examples will demonstrate applying technical measures during the risk reduction process.

In addition to the technical requirements, participants will be made aware of quality assurance measures, and documentation for lifecycle design and validation. The instructor will share presentations using either an online meeting tool, or when delivered at customer site or at the SICK North American Training Center, a hands on learning experience.

Objectives

- Defining new standards regarding safety of machinery
- Review types of technical measures for risk reduction
- Basic identification of safety functions for machines
- Introduction to performing calculations (ISO13849-1)
- Introduction to SISTEMA
- Defining a validation plan
- Completing documentation

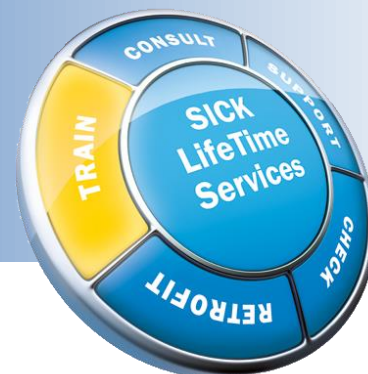
Course Benefits

- Become aware of how to apply functional safety concepts to the SRP/CS (Safety Related Parts of a Control System) to meet ISO13849 and OSHA requirements
- Obtain a basic understanding of component selection and how to identify safety rated products
- Gain a basic understanding of how a Validation Plan is built to ensure the safety functions are evaluated properly to meet ISO13849



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Target Audience

Operators, New Employees, Maintenance Supervisors, Management

Prerequisites

None

Recommended Additional Course(s)

None

Duration

1 Hour

Class Size

No limit

Where Offered

- Customer site
- SICK North American Training Center
- Online meeting

Format

Presentation, animations and videos with trainee participation

Testing Available

No

Customer Required Materials

None for training at customer site

For virtual training:

- Online meeting tool installed (if necessary) prior to attending

Logistics

The following must be made available for the duration of the training:

- A suitable training room/area

Failure to have the customer required material and/or logistics available may lead to ineffective training and may result in the class not being able to achieve the described objectives and course benefits.

Part Number

1069309

Travel expenses additional. Please contact SICK for information.

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