

# SISTEMA Training and Labs Safety Education

## SICK LifeTime Services Training Course



### Description

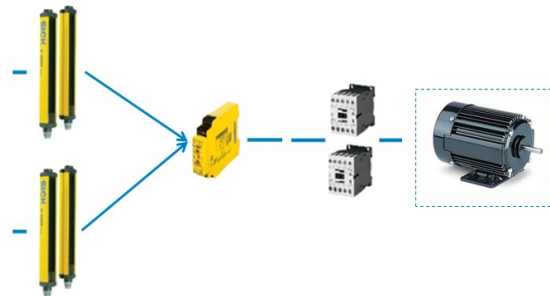
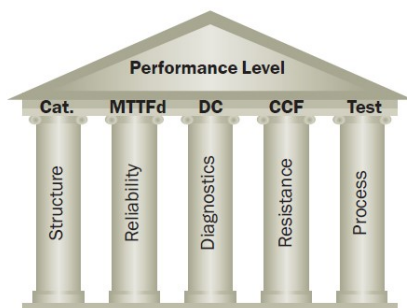
This training module covers how to use SISTEMA; creating a project, evaluation of safety functions, a practical example and lab. Participants learn how the selection of components affects performance levels achieved based on category structure, MTTFd, diagnostic coverage, common cause failure, and standard engineering principles. Participants receive hands-on experience with SISTEMA to evaluate practical safety functions to determine the performance level achieved through system design and component selection. This hands-on training can be delivered at the customer site or at the SICK North American Training Center.

### Objectives

- Understand why/when to use SISTEMA
- Understand the components of a project
- Understand types of safety functions evaluated by SISTEMA
- Create subsystems and add encapsulated subsystems
- Understand the importance of proper component selection
- Understand how to evaluate blocks and elements
- Examine diagnostic information and troubleshooting tools
- Create reports

### Course Benefits

- Learn how to build a project to ensure the safety functions are evaluated properly to comply to safety standards
- Learn how to create a block diagram to clearly define safety function structure
- Learn how to troubleshoot a project to quickly identify sources of errors to reduce development time
- Learn how to reference other documents (such as a risk assessment and specification sheets) to create a complete technical file as required by safety standards
- Learn how to identify shortcomings of component selection to replace with an appropriate device to ensure compliance to safety standards
- Obtain practical hands-on experience to reduce safety solution development time



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### Target Audience

Design Engineers

### Prerequisites

- Knowledge of ISO 13849-1/2
- Basic computer skills

### Recommended Additional Courses

- Functional Safety ISO 13849-1/2
- Risk Assessment Training

### Duration

4 Hours

### Class Size

Maximum of 8

### Where Offered

- Customer site
- SICK North American Training Center

### Format

Presentation and hands-on

### Testing Available

No

### Customer Required Materials

None

### 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

1065484

Travel expenses additional. Please contact SICK for information.

### SICK Training & Education

From product training, start-up assistance and engineering and consulting services – SICK provides the necessary support before and after field installation through an established network of field personnel. Review our training, service and support programs and let SICK help you reach your goals with our innovative, cost-effective solutions.

SICK offers several types of training programs to help you learn more about our innovative products and systems. Many of our training modules offer hands-on, real-world application examples and problem-solving experiences. Please visit our website at <http://www.sickusa.com> for more information.