

# Flexi Soft – S3000 SIM-4 System Configuration Training

## SICK LifeTime Services Training Course



### Description

This course is designed as an introductory course for users of the Flexi Soft – S3000 safety scanner SIM-4 safety control system. This training module examines the functionality of safety scanners and modern safety controllers. Basics of safety wiring and logic are covered as well as the fundamentals of how to achieve different safety performance levels. The instructor will share presentations and product demonstrations 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. Exercise tasks will be used to monitor participant’s competency as the training progresses. .

### Objectives

- Examine different types of safety controls
- Understand the functionality of each Flexi Soft module
- Learn how to replace modules
- Examine the basics of Flexi Soft Designer
- Introduce Flexi Soft Designer Simulator to test the design
- Verify the Flexi Soft system
- Examine module LED error codes
- Create wiring faults and use Flexi Soft Designer to troubleshoot system
- Understand how to identify safety scanner models
- Understand scanner model compatibility
- Learn about basic scanner selection and installation
- Determine scanner wiring requirements
- Configure a scanner using CDS
- Design field sets
- Create SIM-4 cases
- Examine diagnostic information and troubleshooting tools
- Replace a scanner screen and recalibrate
- Learn about SIM-4 scanner integration into a safety system
- Backup and load saved configurations

### Course Benefits

- Learn the basics of how to use Flexi Soft Designer
- Learn how to achieve higher levels of safety system design
- Learn how to troubleshoot the Flexi Soft – S3000 safety system in seconds without a computer
- Learn advanced troubleshooting skills to reduce downtime
- Learn when it is necessary and how to replace a module and scanner in a few minutes
- Learn how to avoid false scanner triggers to reduce downtime
- Learn how to troubleshoot scanners to resolve issues in a minimum amount of time
- Learn how and when to properly clean a scanner screen to reduce device errors
- Learn how to replace a scanner screen and recalibrate to extend the necessary cleaning interval
- Understand how scanners are integrated into a SIM-4 safety control system



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### Target Audience

Plant Engineers and Advanced Electrical Technicians

### Prerequisites

- Basic computer skills
- Basic understanding of industrial safety concepts and safety control circuits

### Recommended Additional Course

- Basic Machine Safe Guarding Training

### Duration

8 Hours

### Class Size

Maximum of 8

### Where Offered

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

### Format

Presentation, demonstration, and exercises/quizzes

### Testing Available

Yes

### Customer Required Materials

For training at customer site, at a minimum, for every two participants:

- PC with SICK FSD and CDS software installed prior to attending
- Minimum of two (2) 110 VAC outlets

For virtual training:

- PC with SICK FSD and CDS software installed prior to attending
- 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
- For in-person training at customer site or at the SICK North American Training Center, SICK provides hardware workstations for the hands-on experience

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

TBD

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. Training, service and support programs from 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.