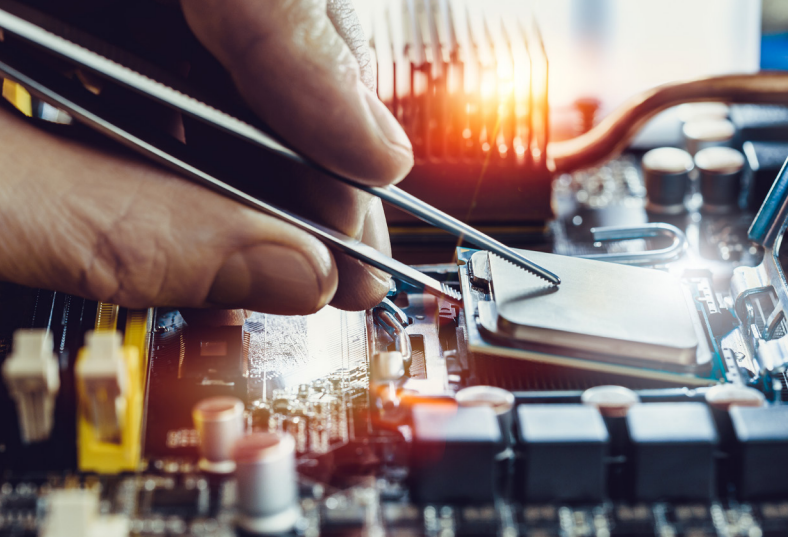


# Functional Safety & Cybersecurity Training Package



Early bird rates now available

Liftinstituut will hold live back-to-back trainings on Functional Safety and Cybersecurity dedicated to the lift and escalator industry from June 5 to 9, 2023 in Amsterdam, The Netherlands.

## 1. Functional Safety and IEC61508 Training for the lift and escalator industry 4-DAY LIVE TRAINING

Are you a designer, developer or engineer in the lift and escalator industry? Bring your knowledge of functional safety to a higher level with the new Liftinstituut training. During this four-day training course Liftinstituut trainer Elena Mauro will provide you with a lot of knowledge, best practices and case studies. Don't miss this opportunity to be trained this specific in your field of work.

### Main topics of this training:

- > What is needed to ensure the functional safety of programmable electronic systems during the lifecycle of lift and escalators?
- > Which laws, guidelines and standards do apply?
- > How do you ensure the functional safety of a lift or escalator?
- > How do you apply the IEC61508 standard within your organization?

### Training details

- Training form: live training
- Duration: 3.5 days training + half-day exam (inclusive of a certificate upon passing exam)
- Date and location: June 5 to 8, 2023  
Amsterdam, The Netherlands
- Required prior knowledge: basic knowledge in the field of technical lift safety
- Maximum number of participants: 15
- For more information: call account manager Dennis Lindeboom at +31 6 520 84 107 or business manager Albert-Jan van Ommen at +31 6 512 43 395.  
Or visit [liftinstituut.com/newsroom](http://liftinstituut.com/newsroom).

### Coverage of the IEC61508 and Functional Safety training

- Day 1 & 2: stage 1 (training and workshop). Introduction & History, IEC61508 Basic Concepts, Strategy to Achieve Functional Safety, Basic Failure Theory, Exercises; Assigning SIL requirements, Safety Requirement Specification, Lifecycle Activities, IEC61508 and Elevator Standards, Exercises
- Day 3 & 4: stage 2 (training, exercises, and final assessment). Design techniques, Diagnostics, Failure Mode and Effect Analysis, Creepage and Clearance, IEC61508 applied to lifts, SW Design, Exercises; PESS and testing, Mechanics and PESS, Formulae, Reliability Block Diagrams, Example of a project, Assessment (Day 4 afternoon, 4 h)



## 2. Cybersecurity training for the lift and escalator industry

### 1-DAY LIVE TRAINING

Are you working in the lift, escalator or safety component industry? Don't miss the new training of Liftinstituut on cybersecurity. In this full day training, Elena Mauro, certification specialist cybersecurity, will update you on all the important questions about this theme – including best practices of the lift and escalator industry.

#### Main topics of this training:

- What are the risks of IoT in lifts, escalators and safety components?
- Which standards and laws do apply concerning cybersecurity?
- How do you work towards a cybersecure lift, escalator or safety component?
- What are the best practices in lifts and escalators?

#### Training details

- Training form: live training
- Duration: full day (8 h)
- Date and location: June 9, 2023  
Amsterdam, The Netherlands
- Required prior knowledge: no special requirements
- Maximum number of participants: 15
- For more information: call account manager Dennis Lindeboom at +31 6 520 84 107 or business manager Albert-Jan van Ommen at +31 6 512 43 395.  
Or visit [liftinstituut.com](https://liftinstituut.com).

#### All the topics in overview

- Why cybersecurity?
- Cybersecurity EU Directive, Laws and Manufacturer Obligations
- Cybersecurity Standards and Basis for Certification
- IoT in Lifts
- Cybersecurity best practices in lifts and escalators
- Cybersecurity lifecycle
- Triple-A cybersecurity principle
- Defense in depth

### About the trainer: Elena Mauro

Elena Mauro is certification specialist at Liftinstituut with cybersecurity and functional safety as area of expertise. After working for many years as a safety consultant in the process industry, she now uses her functional safety and cybersecurity expertise in certification projects of lifts, safety components and machines.

Elena studied Process Engineering at Eindhoven University of Technology, where she also completed her post-Masters in System Engineering to combine process and system engineering. She then worked for a supplier of safety systems for thirteen years, first as a programmer, later as a system engineer and finally as a certified safety consultant. Besides her advisory tasks, she is also a highly experienced trainer.

#### Trainer Elena Mauro:

“Did you know that since January 12th 2022 the new Radio Equipment Directive (RED) of the EU affects how you ensure the cybersecurity of your lifts, escalators and safety components? I have created this training to make you REDy: ready for RED.”

#### EARLY BIRD TRAINING PACKAGE:

- Both trainings (5 day total) at EUR 1,750\* – Original rate: EUR 2,000

#### EARLY BIRD FUNCTIONAL SAFETY AND IEC61508 TRAINING:

- Functional Safety and IEC61508 Training (4 days) at EUR 1,500\* – Original rate: EUR 1,800

#### EARLY BIRD CYBERSECURITY TRAINING:

- Cybersecurity Training (1 day) at EUR 600\* – Original rate: 800

Early bird rates are valid until May 1, 2023 and include program materials, lunch, beverages & snacks on training days. Other expenses such as airfare, hotel room, breakfast, and dinner, are excluded.