

▶ Safety Design incorporating ISO 13849/IEC 62061



Training objective

The aim of the training is to enable delegates to develop a greater understanding of the processes and standards related to safety control systems specification, design and validation.

Target groups

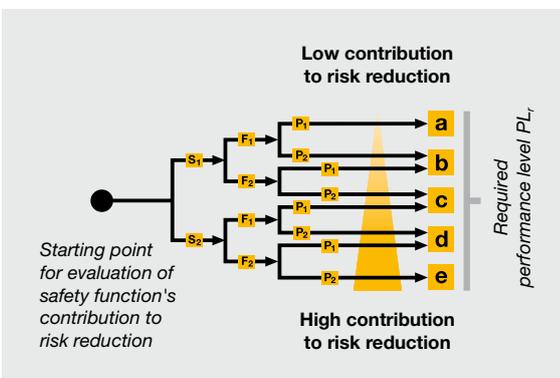
Automation, Electrical, Maintenance and Project Engineers, Automation Managers, Maintenance Managers and Safety Specialists

Training contents

This course covers how the new standard for safety related control systems ISO 13849-1 is applied in automation and machinery design. The standard IEC 62061 is also introduced.

Topics include:

- ▶ Introduction of safety regulations and standards
- ▶ Safety control system standards
 - ISO 13849
 - IEC 62061
- ▶ Detailed review of principles for design of safety related control systems
- ▶ Calculation of Safety Integrity Level (SIL) and Performance Level (PL)
- ▶ Use of PASCAL Safety Calculator



Keep up to date with Safety Training:

Webcode 0218

Online information at www.pilz.com/services



What you can expect

By the end of the course, the participants will

- ▶ be aware of the relevant standards related to safety control systems

- ▶ understand the necessary process from assessment to validation when designing or modifying safety related control systems
- ▶ understand the key architectural structures and alternatives in detailed safety control system design, with practical examples of their application
- ▶ learn how to calculate the critical parameters related to safety control systems design to achieve the desired Performance Level

Your benefit

- ▶ Profit from the detailed review of design
- ▶ Take advantage of the better understanding of relevant regulations and standards
- ▶ Gain from an understanding of a structured approach to design of safety systems
- ▶ Comprehend key parameters such as Performance Level and Safety Integrity Level
- ▶ Profit from knowledge of the application of best practice standards to your machine design

Location of training

“Safety Design incorporating ISO 13849/IEC 62061” training is provided at selected Pilz locations or can be arranged in-house at your facility customised to your requirements.

For further information or order contact details:
www.pilz.com/services

Other training

We offer a comprehensive selection of Safety Training including:

- ▶ CMSE – Certified Machinery Safety Expert
- ▶ Electrical Machine Safety in Industrial Installations
- ▶ CE Marking and Machinery Regulations
- ▶ The Machinery Directive
- ▶ LoTo: Lock Out Tag Out
- ▶ Robot Safety Training

To discuss with Pilz contact

