

# ▶ 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

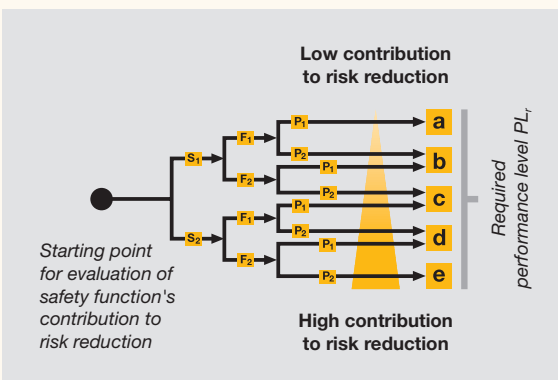
Automation, Electrical, Maintenance and Project Engineers, Automation Managers, Maintenance Managers and Safety Specialists

### 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](http://www.pilz.com)



## 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

## Location of training

“Safety Design incorporating ISO 13849/IEC 62061” 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](http://www.pilz.com) or contact details below

## Other training

We offer a comprehensive selection of Safety Training including:

- ▶ New Machinery Directive 2006/42/EC
- ▶ Machinery Safety Expert
- ▶ Electrical Safety in Industrial Installations
- ▶ CE Marking Process and Certification

## To discuss with Pilz contact

