Fundamentals of Machinery Safety

Course Accreditation
- City & Guilds Assured
- Equivalent to 14 hours of CPD

The CPD Standards Office
CPD PROVIDER: 21955
2025-2027
www.cpdstandards.com

Fundamental

Objective

In this training, you will receive a deeper insight into the basics of technical safety in industry. You can improve your competence in the key areas particularly relevant for machinery safety. The focus here is on the topics CE marking, risk assessment, safety components and the design and validation of control systems in accordance with ISO 13849 and IEC 60261 in particular. And all of this is based on the standards and laws that enhance machinery safety.

Contents

- Review of introduction level
  - International and local legislation
  - Safety standards
- CE marking
  - Introduction to CE marking
  - Machinery Directive
  - Validation of EHSR (Essential Health and Safety Requirements)
- Risk evaluation
  - Introduction to risk assessment
  - Standards and directives
  - Methods and systems
  - Introduction to risk reduction measures
- Introduction to safeguarding methods and systems
  - Standards related to mechanical guarding
- Electrical safety IEC 60204/NFPA 79
  - General requirements for the electrical safety of machinery
- Lockout tagout – control of hazardous energy
  - LoTo process overview, procedures and tools
- Introduction to safety control systems
  - Application range of ISO 13849
- Robot safety
  - Applicable standards and laws
  - Assessments and protective measures

Target groups

The target group for this training are people who already have a good understanding of the basic requirements of machine safety legislation or have completed the basic level training.

- Design engineers and developers
- Project managers and team leaders
- Maintenance technicians
- Health and safety personnel

Your optimum qualification path:



- Introduction: Introduction to Machinery Safety
- **Fundamental:** Fundamentals of Machinery Safety
- Advanced: Electrical Safety in Industrial Installations – IEC 60204
- Expert: CMSE – Certified Machinery Safety Expert

or

- Advanced: Design of Safety Control Systems according to ISO 13849 & IEC 62061
- Expert: CEFS – Certified Expert in Functional Safety

Note: *Most Pilz UK courses, including this one, can be hosted at external locations. Travel expenses for the trainer would be included in the cost.*

Course Details:

Duration:	**2 days**
	9:00 – 17:00
Fee:	**£750 +VAT per person**
Number of participants:	Up to 10