CERTIFIED

Expert

CMSE® – Certified Machinery Safety Expert

Course Accreditations
- TÜV NORD Certified
- Equivalent to 27 hours of CPD

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

In partnership with:

The requirements for machinery have changed considerably in recent years with the increasing use of automation and robot systems. This has increased the need for intelligent strategies for machinery safety. The changing requirements for legislation also play a role in the use, maintenance and operation of machinery. Because machinery must be designed, modified and modernised, companies require personnel that have the necessary knowledge to make informed decisions about machinery safety. CMSE was developed specifically to offer the market expert training in the field of machinery safety and enable the graduates to prove their skills with an independent certification.

They gain comprehensive knowledge and a practical understanding of the machine lifecycle from the risk assessment to the creation of safety concepts, all the way to the application of the principles of functional safety. CMSE is a qualification that is recognised worldwide and enables comprehensive consideration of machinery safety.

In cooperation with TÜV NORD, Pilz offers the qualification to become a CMSE – Certified Machinery Safety Expert. The four-day course gives an overall view of the subject of machinery safety and is divided into five modules. The CMSE modules are standardised worldwide and are of a uniform level. The concluding TÜV NORD certificate has international validity.

Contents

Module 1: Introduction to safety
- Basics of safety
- Introduction to safety legislation and standards

Module 2: Machinery safety
- European directives – history and framework
- Devices and Workplaces Ordinance
- CE marking and Machinery Directive
- Occupational health and safety

Module 3: Risk assessment
- Risk evaluation
- Workshop on risk evaluation

Module 4: Mechanical safeguards
- Mechanical safeguard
- Safety components
- Electrical safety

Module 5: Functional safety of control systems
- Functional safety of control systems
- Functional safety of pneumatic and hydraulic systems

Target groups
- Mechanical designers
- Control engineers
- System integrators
- Control system designers and machine builders
- Companies that operate plant and machinery
- Craftsmen, technicians, engineers

Notes

The seminar includes a multiple choice test.
If the test is passed, the participants receive the internationally recognised TÜV NORD certificate of “CMSE – Certified Machinery Safety Expert”, which is valid for four years.

We can also offer the test in other languages, if needed. Please inform us of this accordingly when registering.

Prerequisites

To be able to successfully take part in the expert training, you must prove that you have sufficient knowledge in the area of machinery safety. At least one of the following criteria must be met:

At least five years of experience in the field of machinery safety

Several years of professional experience and training in one or more areas relating to machinery safety, e.g. technology, safety-related construction, safety-related maintenance and servicing.

Qualification and more than 1 year of experience in the field of machinery safety

Formal qualification in the fields of general science, engineering, technology, construction and design or maintenance and repair of machinery from a university/technical college with a training period of at least two years and at least one year of practical experience in one or more fields that are related to machinery safety, e.g. technology, safety-related construction and design or safety-related maintenance and repair.

Are you unsure about whether your current qualification corresponds to the required level? Please contact us. We can provide you with an individual consultation and would be happy to point out any possible alternatives with which you can reach the qualification level for the CMSE.

Benefits to you

- Understand the requirements of the European ordinances and standards relating to machinery
- Discover how these can be applied to the design, construction, maintenance and operation of machinery in the European Economic Area
- Recognise and identify obligations that must be met in the specification, design or commissioning of a machine
- Improve your skills in the design of safety systems
- Qualification as CMSE – Certified Machinery Safety Expert (after successful completion of the test)

Your optimum qualification path:



Introduction: Introduction to Machinery Safety

Fundamental: Fundamentals of Machinery Safety

Advanced: City & Guilds Assured 4 Day Machinery Safety Course

Expert: CMSE – Certified Machinery Safety Expert

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:	**4 days**
	9:00 – 17:00
Fee:	**£1,950**[1] **+ VAT per person**
Number of participants:	Up to 10

Test required

[1] Includes the TÜV examination fee and the issuing of the certificate