

Safety for Human and Machine through further Training

As ambassadors for safety, it is important to also comprehensively train you on the topic of machinery safety. Whether machine manufacturer or operator: Our mission is to maximise safety for human and machine – for a safer world! In order to achieve this, we offer you a comprehensive range of further training on specialist knowledge for normative and legal requirements in machinery safety – from functional safety to Industrial Security. We also offer training on products and technologies in relevant sectors of automation technology for practical professional application of Pilz product solutions.



Introduction		Fundamentals		Advanced		Expert	
Training	Days	Training	Days	Training	Days	Training	Days
machineSAFE Introduction	1	machineSAFE Comprehensive	2	Risk Assessment Workshop	1	CMSE® – Certified Machinery Safety Expert	4
machineSAFE for Executives	1/2	Management of Risk in Machinery Procurement	1	Design of Safety Control Systems according to ISO 13849-1 and IEC 62061	1	CEFS - Certified Expert in Functional Safety	2
Webinar Series	1 hr	LockOut / TagOut (LOTO)	1	Safety Requirement and Integration of AGVs	1	CMSE® Recertification	1
		Safety of Packaging and Associated Machinery	1	Robot Safety and Integration	1		
				Basis of CE Marking	1		

Why Pilz?

Pilz provides a range of product neutral training courses aimed at helping you understand your duties, obligations and responsibilities under various regulations and standards and to implement compliance, safety strategies and designs.

Our training courses include both technical and theoretical content that allow personnel to develop a much greater understanding of the standards and legislation related to Machinery Safety.

Our trainings are delivered by Certified Machinery Safety Experts® who can provide you with the latest safety knowledge including safety related standards, regulations and technology crucial in this ever changing environment.

► Our Training Courses

Training	Description	Duration	Price
 machineSAFE Introduction	The popular course includes the key points of machinery safety including methodology for risk assessments and designing safeguarding solutions with reference to AS/NZS 4024.1 – 2019 safety of Machinery.	1	\$630*
machineSAFE for Executives	Taking reference from the machineSAFE introduction course, this new course is designed for executives and general managers. It provides basic knowledge of a company's obligations and the required personnel skills to ensure they meet the legislation and standards for Machine Safety.	1/2	On Request
Webinar Series	In the Safety of Machinery webinar series we will host a monthly lunchtime webinar introducing you to topics relating to machinery safety, with a focus on the Australian legislation and standards. Topics include Risk Assessment, Safe Procurement of Machinery, Machinery Guarding Basics, Interlocks, Safeguarding Devices, Industrial Robots, Human Robot Collaboration and CE Marking	1 hr	Free
 machineSAFE Comprehensive	Following from machineSAFE Introduction Course, this course is for technical staff who are involved in assessing, building or upgrading safety features on machinery. It explores the key aspects of safety control system design, fuid safety and electrical safety design for machinery with specific references to Australian/New Zealand legislation and standards.	2	\$1125*
Management of Risk in Machinery Procurement	Provides insights and knowhows required to safely procure machinery with a special focus on the configuration of technical specifications relating to safety aspects. Participants will be able to recognise the pitfalls and avoid expensive surprises as well as practical knowledge for everyday use that can be directly implemented in the workplace.	1	\$770*
Lock Out / Tag Out (LOTO)	Enables delegates to develop a detailed understanding of the requirements of LOTO (Lock Out / Tag Out), in relation to Machinery Safety. The training covers both legal requirements and best practices.	1/2	On Request
Robot Safety and Integration	Aimed to provide an understanding of the essential requirements of robot and collaborative application safety. This includes a review of the scope of the international standards ISO 10218-1 & 2 in relation to robots and robot integration. The training course covers, amongst other things, robot classification, cyber security, risk assessment and risk reduction requirements, safety function performance level and validation/verification requirements for robot applications.	1	\$770*
Safety of Packaging and Associated Machinery	This training course covers the Australian legislation and standards relating to packaging machines, robots and conveyors.	1	\$770*
 Risk Assessment Workshop	Participants will acquire extensive knowledge and skills needed to risk assess machinery in accordance with AS/NZS 4024.1201 Safety of Machinery. The Risk Assessment Workshop uses images and videos to guide you through the risk assessment process on machinery – it is always interactive and practically based identifying hazards and performing risk evaluations.	1	\$770*
Design of Safety Control Systems according to ISO 13849-1 and IEC 62061	Introduces participants to the processes and standards that are important in the design and evaluation of safety-relevant control systems. This training course addresses the safety-related control systems standards ISO 13849-1 (AS/NZS 4024.1503) and IEC 62061. Attendees will also learn how to calculate and verify the design using the popular PAScal software tool.	1	\$770*
Safety Requirement and Integration of AGVs	Participants receive all the information they need about the essential safety requirements for AGV. As part of the training course participants also receive a detailed overview of the functionality of AGV, AGV systems and AMR as well as the resulting risk when one or more AGV or AMR are integrated into an existing system.	1	\$770*
Basis of CE Marking	Participants will be introduced to the issues concerning the Machinery Directive 2006/42/EC and the requirements regarding CE marking of machines. Which machines fall under the scope of the Machinery Directive? What are the responsibilities of machine builders (manufacturers) and machine operators (employers)? This training course will provide answers to these questions, which arise in conjunction with the engineering, acquisition, and commissioning of new and existing machinery.	1	\$770*
 CMSE® – Certified Machinery Safety Expert	Specifically developed to provide professionals with an expert level of training in the area of machinery safety. CMSE® training deals with the complex technical issues surrounding machinery safety and enables an understanding of the machinery lifecycle. This training is independently certified by TÜV NORD, as an international certification body and the qualification is globally recognised.	4	\$3595*
CEFS - Certified Expert in Functional Safety	New and internationally recognised CEFS qualification - Certified Expert in Functional Safety - is certified by TÜV NORD and offers specialist knowledge on systems for the functional safety of machinery. The qualification offers you a wealth of knowledge of the relevant standards and a practical look at how complex safety systems are put together.	2	\$2840*
CMSE® Recertification	TÜV NORD requires that certification is renewed every four years. This requires one day of training, during which, a review of the modification of safety legislation & standards, international best practices, and new safety technologies, will take place.	1	\$1050*

*All prices are subject to GST

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