Evolution MOTION SOLUTIONS

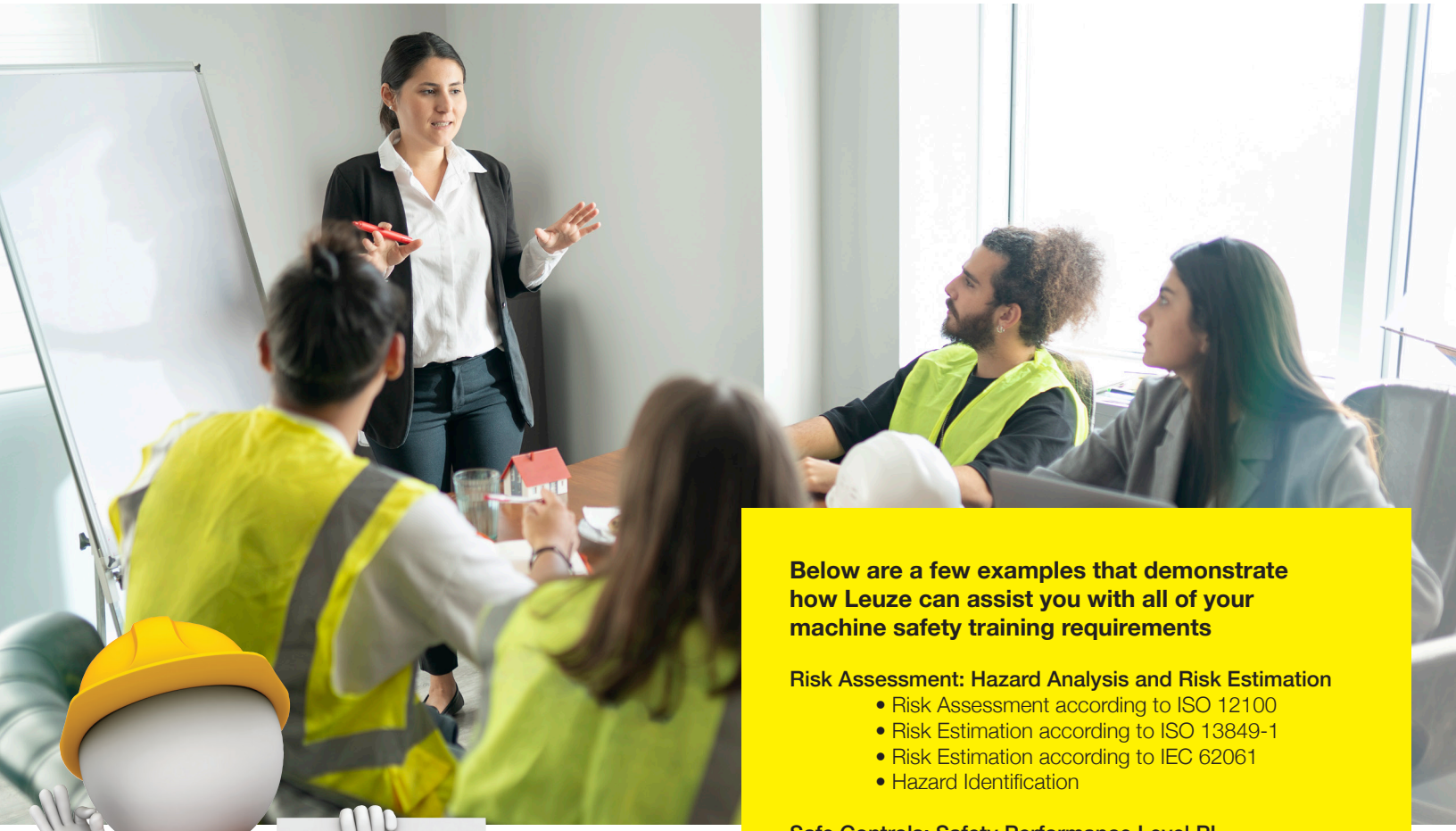
Leuze

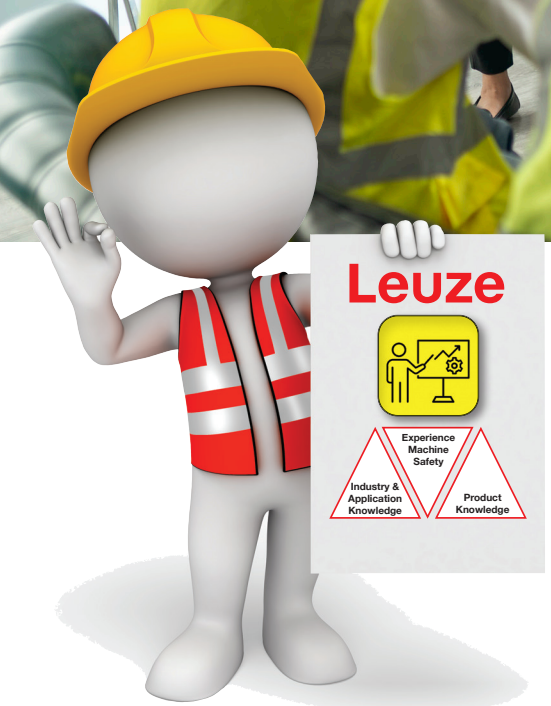
Safety at Leuze

Training

Why should Machinery Safety Training be an important part of your Machine Safety planning and culture at your facility?

Achieving machine safety goals and providing a safe workspace requires a well trained staff. Leuze offers customizable trainings covering industry standards, best practices, risk assessment methodology and product specific safety device instruction. We can also tailor training programs to your organization's safety standards.





Below are a few examples that demonstrate how Leuze can assist you with all of your machine safety training requirements

Risk Assessment: Hazard Analysis and Risk Estimation
- Risk Assessment according to ISO 12100
- Risk Estimation according to ISO 13849-1
- Risk Estimation according to IEC 62061
- Hazard Identification

Safe Controls: Safety Performance Level PL
- Control Equipment for Risk Reduction
- Definition of Safety Functions
- Safety Performance Level PL and PFHD
- Reliability and Diagnostic Coverage

Safety Devices: E-Stop, Two Hand Control, Interlock, AOPD
- Emergency Stop Overview - ISO 13850
- Two-hand control Overview - ISO 13851
- Interlocks – Overview - ISO 14119
- Electro-sensitive protective equipment (ESPE)

Safety Distance and Safety Functions
- ISO 13855 - Safety distance calculation
- Reset – Restart Interlock
- EDM external device monitoring (feedback loop)

Risk Assessment

Used to identify hazards on industrial machines and reduce those hazards through suitable risk-reduction measures. It is the essential prerequisite for safe machine operation. In compliance with all domestic and international standards, Leuze provides one of the most comprehensive Risk Assessment services available worldwide.

Safety Concept and Design

The required measures for risk reduction are defined during the risk analysis. Based on these requirements, the safety concept and safety functions are developed. With our deep industry expertise and many years of practical safety experience, we create effective design proposals and support you throughout the planning process.

Implementation

Once the safety concept is defined, our team supports the practical installation, configuration, and integration of the required safety devices and control functions. We ensure that all safety measures are implemented correctly, efficiently, and in alignment with the approved design and applicable standards.

Verification and Validation

To avoid errors during implementation, the safety function design must be verified against the correct specifications. Performance of the safety functions is then validated through functional testing and error simulation. We support you in planning and conducting these activities, as well as preparing all required documentation.

Start-Up Support

Commissioning tasks can be extensive. Our experienced service technicians assist based on the application and devices used, allowing commissioning to be completed quickly and reliably. We also help minimize downtime during device replacement or changes in device type.

Stop Time Measurement

To calculate the required minimum distance between protective devices and dangerous movement, the stop time of the machine must be known. By **measuring the stop time**, we can properly place protective devices and, with regular inspections, any wear in components can be detected.

Training

Achieving machine safety goals and providing a safe workplace requires a well-trained staff. Leuze offers customizable training covering industry standards, best practices, risk assessment methodology, and product-specific safety device instruction. We can also tailor training programs to your organization's internal safety standards. Scan the QR code to email us for more information.

The Sensor People

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