



Machinery Safety

EN ISO 12100 AWARENESS TRAINING

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SGS

Introduction

SGS delivers a comprehensive overview of the risk assessment standard used for the safe design of machinery and equipment.

This International Standard's goal is to provide equipment designers a broad framework and direction for making decisions during the development process, so they may create safe machines for the purposes for which they are intended. Additionally, it provides direction and alignment with the use of other Type-B and type-C standards that are available.

In addition, the learner will become familiar with how the structure of the standard prepares a consistent approach in reducing risk, by dovetailing into other harmonized standards, such as EN 62061 or EN ISO 13849 that establish essential requirements for safety related of control systems.

Content

- Scope
- Normative references
- Terms & Definitions
- Strategy for risk assessment and risk reduction
- Risk Assessment
- Risk Reduction
- Documentation of risk assessment and risk reduction

Hazard consideration

- Electrical
- Mechanical
- Thermal
- Noise
- Vibration
- Radiation
- Materials & Substances
- Ergonomics

Target audience

- Design Engineers
- Technical
- Product Safety
- Machinery Safety Engineers

Learning outcomes

- Determination in the limits of machinery
- Hazard identification
- Applying the use of risk estimation methodology
- Evaluation of foreseeable risk and foreseeable misuse
- Is the machinery or equipment considered safe?

In EN ISO 12100, the use of specific terminology can be intense and sometimes confusing. SGS will help determine and simplify a thorough understanding and application in the use of the standard.

We aim to do this by connecting methods and procedures to real world applications, that can pose a challenge if reading the standard in isolation.

In the end, your machine should be as safe as possible whether it includes safeguarding, safety related parts of the control system when determining limitations.

Industries covered

- Manufacturing
- Food and Beverage
- Automotive
- Oil & Gas
- Metal forming
- Pharmaceutical
- Waste Recycling
- Plastics
- Chemical
- Mining
- Electronics
- Renewables
- and more

The SGS commitment

We strive to deliver outstanding value at every step of your training in being committed to add value to your work by providing:

- Rapid turnaround time
- Value-based pricing
- Technical assistance
- Key account management
- Accurate and timely reporting
- Quality and trusted test results
- In long-term partnerships our input will increase the return on your investment



When you need to be sure

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