Course description

G111e
Functional safety in ABB drives
Internet course

Course type
Internet course

Course Duration
The course duration is approximately 40 minutes.

Course Goal
The goal of this course is to give a general overview of functional safety in machine applications and how ABB’s product offering enables meeting the requirements of the Machinery Directive.

Student Profile
This course is intended for persons who need an introduction to functional safety in general, including regulations, definitions and issues specific to AC drives.

Prerequisites
- An Internet connection. The recommended browser is Microsoft Internet Explorer.

Course Objectives
Upon completion of this course, students will be able to:
- Describe the needed steps to conform the machine safety
- Explain the lifecycle management approach of functional safety
- List standards related to functional safety
- Describe the process and terminology of risk analysis, reduction and evaluation
- List typical safety functions used with drives
- Describe the definitions of safety performance categories SIL and PL
- Explain the responsibilities related to verifying, validating and testing functional safety systems

Main Topics
- Trends and challenges
- Machinery directive, standards, conformity
- Risk management
- Functional safety, safety functions
- Example implementation case
- Responsibilities

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