

Course description

T143e

Functional Safety

Course goal

The goal of this course is to learn concepts of Function Safety.

Learning objectives

Upon completion, participant will be able to:

- Identify hazards and specify and assess the risks in the phases of the IEC 61511 safety lifecycle.
- Describe the safety requirement specification for the phases of IEC 61511 safety lifecycle.
- Identify hardware and software design for IEC 61511 safety lifecycle.
- Explain operation phases from 5 to 8 of the IEC 61511 safety lifecycle.
- Describe the importance of Functionality Safety Certification and Documentation.
- List the ABB safety certificates

Participant profile

This training is targeted to system and application engineers, commissioning and maintenance personnel, service engineers and system integrators.

Prerequisites

Students shall know the fundamentals of working with Control Systems and have basic knowledge of Windows 7/2008 Server and networking technologies.



Topics

- Functional Safety Background
- SIS, SIF and SIL
- IEC 61508 and IEC 61511
- Hazard and Risk Analysis
- Safety Requirement Specification - Planning
- Hardware and Software design
- Using the Safety System
- Certification, Competence and Documentation
- Assessment.

Course type and methods

This is an e-Learning course

Course duration

2 hours

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