



Academy



Our Introduction to Functional Safety Online course provides a sound basis for anyone involved in the management, specification, design, system integration, operation, modification, and maintenance of safety-related systems.

This course teaches learners about the requirements of international standard IEC 61508, "Functional safety of Electrical, Electronic, and Programmable Electronic safety-related systems" and how you can create an effective safety related system for your organisation.

Who should take this course

This course is suitable for technical staff, and managerial staff managing functional safety, or involved with, the specification, design, system integration and maintenance involving complex E/E/PE safety-related systems.

Key features

Introduction to Functional Safety 2.indd 1

- This course has been developed by functional safety practitioners including those involved in the development of the relevant international standards.
- The course covers the specific requirements in IEC 61508 and also provides clarity on the application of the standard to varying situations in industry.

About the content partner

Our content partner Engineering Safety Consultants Ltd have over 25 years of experience in safety-critical systems engineering with Executive Director Ron Bell, OBE charing one of the two IEC working groups responsible for IEC 61508 international standard.

Course units include

- The Basics of Functional Safety 1
- The Basics of Functional Safety 2
- The Basics of Functional Safety 3
- Safety Lifecycles & Compliance
- Strategy to achieve Functional Safety: Hardware Safety Integrity: Part 1
- Strategy to achieve Functional Safety: Hardware Safety Integrity: Part 2
- Management of Functional Safety & Competence
- SIL Determination & ALARP Demonstration
- Final Assessment

What you'll learn

- Understand the concepts and requirements of international standard IEC 61508
- Learn about Multiple Layers of Protection
 & Mitigation
- Learn about Proof Testing of safety functions
- Integrity and Systematic Capability
- Learn about Cost Benefit Analysis (CBA) and the role it plays in the ALARP demonstration

Content Partner

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