

COURSE DESCRIPTION

T153

Cyber Security related to the Functional Safety Lifecycle One Day Awareness Training Course



The goal of this course is to provide an End User/EPC perspective of the key management, design, operations & maintenance of cyber security requirements in the context of Safety Instrumented Systems (SIS) projects according to IEC 61511 and IEC 62443 requirements.

This includes the necessary steps and considerations to lifecycle management compliance in the context of SIS projects.

Course goal

The goal of this course is to learn the principles and requirements of compliance to the mandatory risk assessment and subsequent lifecycle management cyber security requirements in the context of the specification, design, operation and maintenance of SIS according to IEC 61508 / IEC 61511.

Learning objectives

Upon completion of this course, the participants will be able to:

- Describe the principles of SIS security management and the key features of Industry standards and technical reports
- Describe the requirements of the cyber security lifecycle in the context of IEC 62443 and supporting industry guidance
- Outline the key deliverables from the cyber security risk assessment in terms of specification, design, operations & maintenance cyber security lifecycle phases, and roles and responsibilities
- Undertake an example automation system risk assessment to appreciate the processes to be applied in the workplace

- Understand the requirements for proper inspection, operation, maintenance and modification of installed cyber security measures as required by the safety and security standards

Participant profile

This training is targeted to Asset Owner/End User and Engineering Contractors/EPC stakeholder managers, project engineers, safety engineers, operations managers, electrical, control, instrumentation, maintenance, information technology and application engineers who require a general introduction & awareness to the relevant industry standards and the key requirements for SIS security risk assessment and compliance.

The course is particularly useful for those managers and engineers who may be directly or indirectly, involved in executing safety instrumented system projects covering the entire safety lifecycle, with a particular focus on SIS physical and cyber security lifecycle management.

Course type

This is an instructor-led course with classroom discussions regarding the implementation of cyber security in the context of IEC 61511, IEC 62443 and the relationship to SIS.

Certificate

On successful attendance at this course, a certificate will be issued and approved by the ABB Safety & Security Centre.

Topics covered:

Background on functional safety & cyber security

Regulations and standards

Management of functional safety & cyber security

Competency management

Cyber security risk assessment

Security requirements in SIS specification

Security requirements in SIS design and engineering

Security requirements in SIS operation & maintenance

Security requirements in SIS modification & decommissioning

Verification, validation, audit and assessment

Continuous review and improvement

Practical cyber security risk assessment exercise

How to order

Please contact ABB as listed below for either attendance at any Open course being planned in your region or if you would like to run a training course specific to your organisation.

For on-site training, a fixed price training proposal will be issued to you for your approval to proceed.

Contact

ABB Safety & Security
Howard Road, Eaton Socon, St Neots
Cambridgeshire, PE19 8EU, UK
Phone: +44 (0)1480 475321
E-Mail: oilandgas@gb.abb.com

Contact

ABB Safety & Security
Ole Deviks Vei 10
PO Box 6359 Etterstad
Oslo, Norway
Phone: +47 22 87 2000
E-Mail: oilandgas@no.abb.com

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG. Copyright© 2017 ABB
All rights reserved