

## MEDICAL DEVICE CYBERSECURITY Extended

This course provides a practical overview of cybersecurity for medical devices, covering the regulatory landscape, relevant standards and key analysis methods. Building on the core training, it adds practical insights into cybersecurity implementation for medical devices through examples and hands-on methods like threat modelling, vulnerability evaluation, security testing and more.

**DURATION:** 1,5 Days, 8+4 h/day incl. breaks

**LANGUAGE:** English or German

### COURSE CONTENT

Module 1: Cybersecurity overview (half day)

- Cybersecurity standards overview (AAMI, ISO, IEC and FDA)
- Risk analysis with links to ISO 14971, AAMI TIR 57 and NIST
- Secure Product Development Lifecycle according to IEC 62443
- Cybersecurity management and the ISO/IEC 27000 series
- Network products and the relation to the IEC 81001-5-1 and other standards
- Standalone products
- The link to IEC 62304 and IEC 60601 activities
- Post-market cybersecurity and AAMI TIR 97

Module 2: Cybersecurity analysis and methods (half day)

- Threat taxonomy and analysis methods
- Cybersecurity processes to minimize threats
- Hardware / software cybersecurity vulnerabilities and mitigations
- Cybersecurity testing
- Fuzz and penetration testing
- Generation of SBOMs and Software Composition Analysis
- Post-market activities and reaction times
- Risk acceptance

Module 3: Advanced topics & practical applications (half day)

- UL 2900
- Quality Management System
- Practical examples for threat modelling using a tool
- Practical examples for vulnerability evaluations using CVSS 4.0
- Security testing: penetration testing and fuzz testing

### TARGET AUDIENCE

Cybersecurity staff, engineers, project leaders, project managers, quality engineers, hardware / software developers

### PREREQUISITES

This course is suitable for delegates with no prior knowledge of cybersecurity or can be customized for a more experienced audience.

### FURTHER INFORMATION

Online or in-person interactive expert-led training. On request we grant a discount for group bookings.

**Your partner for functional safety  
and regulatory compliance.**

# CYBERSECURITY

## MEDICAL DEVICE INDUSTRIES

Extended Course



We are happy to work with your organization to develop **customized and cost-effective training** that meets your requirements in terms of date, timing and content.

### PLEASE CONTACT US FOR YOUR BOOKING OR ENQUIRY:

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