

COMPREHENSIVE AUTOMOTIVE CYBERSECURITY TRAINING

 **4 Days**

What to expect?

- Modular scope, depending on the audience
- Training validated by 70 experts
- Full coverage of all needs along the value chain

Why attend?

- Understand the importance of Cybersecurity
- Identify risks imposed by cyber-attacks
- Evaluate threats and assess their impact
- Integrate Cybersecurity in your company's development lifecycle

Who is this training targeted to?

Engineers and Developers who

- Need to know implementation methods and instruments for technical development
- Need to integrate and select Cybersecurity measures
- Need to perform risk assessment and security testing with a close look at individual SW, HW and system level

Managers who

- Needs to understand the current legal regulations and guidelines
- Needs awareness and an understanding of the relevance of Cybersecurity
- Needs to drive Cybersecurity on an organizational and project level

Supporting disciplines who

- Needs an understanding of the relevance of Cybersecurity
- Needs basic operational aspects for daily business
- Needs to understand the current landscape of legal regulations and guidelines



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Content

Cybersecurity Awareness

- Current hacks, breaches and their impact on the organizational body
- Cybersecurity costs vs. investment
- Cybersecurity as an enabler vs. inhibitor
- Trends impacting Cybersecurity

Regulations & Standards

- Introduction to ISO/SAE 21434 and UNECE WP.29 GRVA
- Cybersecurity-related standards and guidelines (ISO 24089, ISO 27k, IEC 62443)
- Role of government and authorities
- Initiatives and public resources in a Cybersecurity context

Cybersecurity Ecosystem

- Vehicle ecosystem and its components
- Vehicle communication (e.g. V2X)
Product lifecycle model and its product lifecycle phases

Cybersecurity Management

- Cybersecurity management on an organizational level
- Cybersecurity management on a project level
- Cybersecurity management for post-development

Cybersecurity Development

- Cybersecurity relevance, goals, claims and concepts
- Item definition
- Product development and validation

Cybersecurity Risk Assessment

- Asset identification and impact assessment
- Threat, vulnerability and attack analysis
- Risk assessment and treatment

Cybersecurity Implementation

- HW / SW implementation
- Secure SW implementation AUTOSAR

Cybersecurity Controls

- Introduction to Cybersecurity controls
- Covering controls along (e.g. Vehicle level, Product/system level, SW level and HW level)

Cybersecurity Testing

- Need for Cybersecurity testing
- Functional Cybersecurity testing
- Automotive vulnerability scanning, fuzz testing and penetration testing



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