

Automotive Cybersecurity-ISO 21434 (paid course)

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom Format
Duration:	2 days
Target Group:	For practitioners in the automotive industry who want to understand and engage in cybersecurity-related work
Prerequisites:	V-Model for software development, basic knowledge of cryptography
Goal:	To understand the regulations and standards related to automotive cybersecurity, be familiar with ISO 21434 cybersecurity management system (including security management, security analysis, security engineering, security testing, security monitor, etc.), master the basic principles and some practical methods

1. **Risks and challenges in automotive cybersecurity (including industry trend survey and analysis)**
2. **Industry terminology, regulations and international standards (CSMS, SUMS, ISO 21434, etc.)**
3. **Cybersecurity management (organizational, project dependent, distributed, continual)**
4. **Risk-based cybersecurity and security analysis (including TARA practice and case study)**
5. **Systematic security engineering (HSM, Secure Boot, SecOC, Secure Diagnostics, etc.)**
6. **Security Testing (CQA, Fuzz - and Penetration - Testing)**
7. **Cybersecurity Incident Management and Response**