Other training info

Certificate of Qualification

After passing a knowledge test, you will receive a VDA certificate as Automotive Cybersecurity Professional based on ISO/SAE 21434

Duration & cost

5,900 RMB/ 2 days (incl. VAT, training material and lunch during training days)

Training inquiry

VDA QMC China

Tel.: +86 400 0650770 Email: qmc@vdachina.com.cn



Ver. July 2023

DEKRA

DEKRA has been active in the field of safety for almost 100 years. Founded in 1925 in Berlin as Deutscher Kraftfahrzeug-Überwachungs-Verein e.V., it is today one of the world's leading expert organizations. In 2020, DEKRA generated turnover totaling almost EUR 3.2 billion. The company currently employs around 44,000 people in approximately 60 countries on all 6 continents. With qualified and independent expert services, they work for safety on the road, at work and at home. These services range from vehicle inspection and expert appraisals to claims services, industrial and building inspections, safety consultancy, testing and certification of products and systems, as well as training courses and temporary work. The vision for the company's 100th birthday in 2025 is that DEKRA will be the global partner for a safe, secure, and sustainable world.

www.dekra.com.cn

VDA QMC CHINA

VDA QMC China was founded in 2005 and operate since 2006 in China to provide training and coaching to the automotive experts in China, based on the VDA standards. They also translate VDA standards into Chinese and organize Conferences in mainland China and Taiwan for auto-motive industry, e.g.: PID, SYS China, Q-SUMMIT, Regional Conferences and on-line conferences.

The VDA QMC China also have project teams with these members and Chinese expert partners in China, who are supporting the working group work of VDA QMC Germany.

www.vdachina.com.cn

DEKRA

VDA、QMC 徳国汽车工业协会 质量管理中心中国分公司 CHINA

ISO/SAE 21434 Road Vehicles – Cybersecurity Engineering

English version



DEKRA

ISO/SAE 21434 Road Vehicles – Cybersecurity Engineering

Why ISO/SAE 21434 is important in Automotive industry?

ISO/SAE 21434 standard is seen by industry experts as the first standard that lays out clear organizational, procedural & technical requirements throughout the vehicle lifecycle, from development to production to after-sales.

Regulators, type-approval authorities, insurers, and business partners will likely demand more formal structures and processes, including diligent documenting. They will likely also require evidence of both the operational effectiveness of cybersecurity practices and OEM compliance with relevant regulatory requirements and standards (e.g., the UNECE R-155 regulations or the ISO/SAE 21434), additional requirements on cybersecurity are mandatory in China as for cybersecurity critical part (e.g.: Keyless entry system) for CCC (Homologation) approval.

Adhering to regulatory requirements for process documentation will likely result in new cybersecurity assessments, audits, and certifications. e.g.: third-party audit based on ISO/SAE 21434.

Automotive related organizations must operationalize and adhere to the minimum requirements laid out in the respective regulations (e.g., UNECE R-155) and industry standards (e.g., ISO/SAE 21434). This results in higher rigor, more functional requirements, and bigger investments along the development lifecycle. Action on this front will take the form of more robust engineering requirements and architectural design with inherent security features.



ISO/SAE 21434 Standard introduction

ISO/SAE 21434 specifies engineering requirements for cybersecurity risk management regarding concept, product development, production, operation, maintenance and decommissioning of electrical and electronic (E/E) systems in road vehicles, including their components and interfaces.

A framework is defined that includes requirements for cybersecurity processes and a common language for communicating and managing cybersecurity risk.

ISO/SAE 21434 is applicable to series production road vehicle E/E systems, including their components and interfaces, whose development or modification began after the publication of this document, but ISO/SAE 21434 does not prescribe specific technology or solutions related to cybersecurity.

About ISO/SAE 21434 training

Training Contents

Profund basic overview of cybersecurity in automotive domain: ISO/SAE 21434, chapter by chapter

- Introduction
- Organizational cybersecurity management
- Project dependent cybersecurity management
- Distributed cybersecurity activities
- Threat analysis and risk assessment methods (TARA)
- Continual cybersecurity activities
- Cybersecurity in product concept phase
- Cybersecurity in the product development phase
- Cybersecurity validation
- Cybersecurity in the Production phase
- Cybersecurity in the product operations and maintenance phase
- End of cybersecurity support and decommissioning of the product

Target Audience

This training is highly recommended for cybersecurity responsible professionals, e.g.: project manager, cyber security manager, cyber security engineer, auditors, or E/E engineers, functional safety engineers, and engineers from R&D, QA, V&V departments.

Prerequisites for Attendance

There are no mandatory prerequisites for participants, but knowledge of information security (TISAX, ISMS), Cybersecurity, automotive E/E architecture or vehicle embedded systems in general would be an advantage.

VDA QMC

德国汽车工业协会 质量管理中心中国分公司 CHINA