

ISO 21434:2021 - Certified Lead Auditor

Course Outline

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The ISO 21434 certification concept behind the training comprises a multi-stage qualification and practical approach considering implementation aspects in the industry.

ISO 21434 "Road vehicles — cybersecurity engineering" 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.

During this interactive automotive cybersecurity course, participants will gain in-depth knowledge of various requirements for automotive cyber security standard ISO 21434. The participants would understand the connection between the threat and risk analysis, security concept, stakeholders' expectations, security specification, and verification and validation concept over the complete life cycle.

The ISO 21434 automotive standard is important because it covers all stages of a vehicle's lifecycle — from design through decommissioning, by the application of cybersecurity engineering. ISO 21434 applies to all electronic systems, components, and software in the vehicle, plus any external connectivity.

The automotive industry is constantly confronted with new quality requirements due to increasing digitisation, networking and automation of vehicles. Series vehicles and their components must be developed, taking automotive cybersecurity into account.

It will substantially impact vehicle development and the entire life cycle. ISO 21434 "Road vehicles cybersecurity engineering" 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.

What Modules are covered?

- Introduction
- Activities and Work Products
- Cybersecurity Automotive Processes
- Cybersecurity Basics
- Cybersecurity Algorithms
- Cybersecurity in Autosar
- ISO 21434 Process Overview
- Impact and Threat Analysis
- Security Mechanism

Who should attend?

Manager, software developers, hardware developers, project leaders, quality representatives, test engineers and all who are involved in Automotive Cybersecurity, Cyber Security enthusiast , Automotive Security Professionals, Security Developers and Security Managers