



Automotive: Security Requirements Engineering



- Decision Makers
- 300 EUR
- Online course

Requirements are the ingredients for a good product but do not lead to the desired results on their own. The key is their interpretation and implementation. The state of the art framework for cybersecurity as outlined in SAE J3061 provides high-level guiding principles, but might be hard to apply in practice. Save time in learning how to adhere to security requirements by getting an in-depth overview of how to work with security requirements and the five most common TARA methodologies. In this module, we go over the details of each methodology, and compare their strengths and limitations. We close off with a case study where we use a set of predefined security requirements. We follow a TARA process and propose technical specifications.

COURSE STRUCTURE

This course consists of three parts: an **instructor-led learning session**, time for completing **assignments and self-study**, and **Q&A session**. The learning session is recorded and can be watched **anytime** after the official broadcast date. We schedule a live Q&A session every month to discuss any questions you might have.



LEARNING SESSION CONTENT



- 01 SECURITY REQUIREMENTS.** We look at the role of security requirements, why they are issued and what it means to meet a security requirement. We give a semi formal definition of security requirements as outlined by SAE J3061.
- 02 IMPLEMENTATION CHALLENGES.** While the goals of safety and security are analogous, the scope of security is broader than that of safety and the implementation process is different. Additional challenges include unfeasible, unrealistic requirements. Essential for correct implementation are assumptions, expectations and processes.
- 03 TARA METHODOLOGIES.** After a brief description of the main five methodologies used for threat modeling: MITRE TARA, EVITA, STRIDE/DREAD, HEAVENS and Common Criteria (CC) we compare and construct their strengths and weaknesses.
- 04 CASE STUDY.** We perform a mock-up TARA on a case study according to a subset of the previous mentioned methodologies.

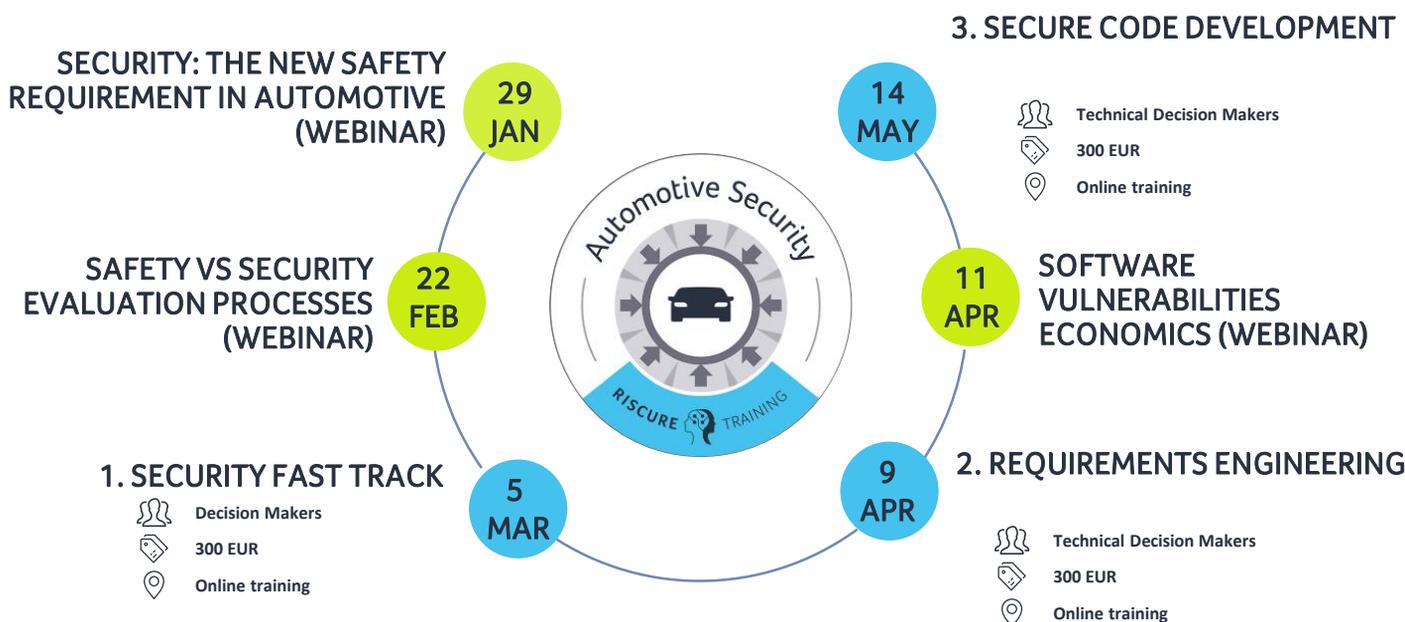
WHO IS THIS COURSE FOR?

If your job means you are responsible for at least two requirements from the following list, then you are a perfect candidate for this course:

- Interface with stakeholders to understand requirements, domains, and viable technologies.
- Advise the project team on key issues of functional safety in requirements engineering and management, especially during software design and architecture development activities.
- Create, maintain and refine all documents relating to security topics such as: security plans, security objectives and requirements, functional architecture, or requirements for hardware and software for automotive ECU development projects.
- Identify risks and quality issues, estimate effort, analyze requirements and establish priorities.
- Define architectural requirements and align them internally as well as with the customer.
- Integrate cybersecurity aspects into your existing safety engineering processes.



WHAT NEXT?



Register here: <https://www.riscure.com/training/automotive-security-online-training/>

FEATURES

01 ONLINE

Delft is beautiful, but traveling here takes time and money. We are offering this training online, so you can access it anywhere, anytime.

03 COMPRESSED

We know you are busy so we don't beat around the bush and give you the information straight up.

05 INTERACTIVE

Watching an online course can test your patience. We break the content in pieces and add a healthy dose of interactive exercises.

02 ACTIONABLE

All lessons in this short course are immediately applicable on the job.

04 AFFORDABLE

For only 300 EUR you get access to 3 hours of video content, downloadable training materials, and the possibility to ask questions to our experts.