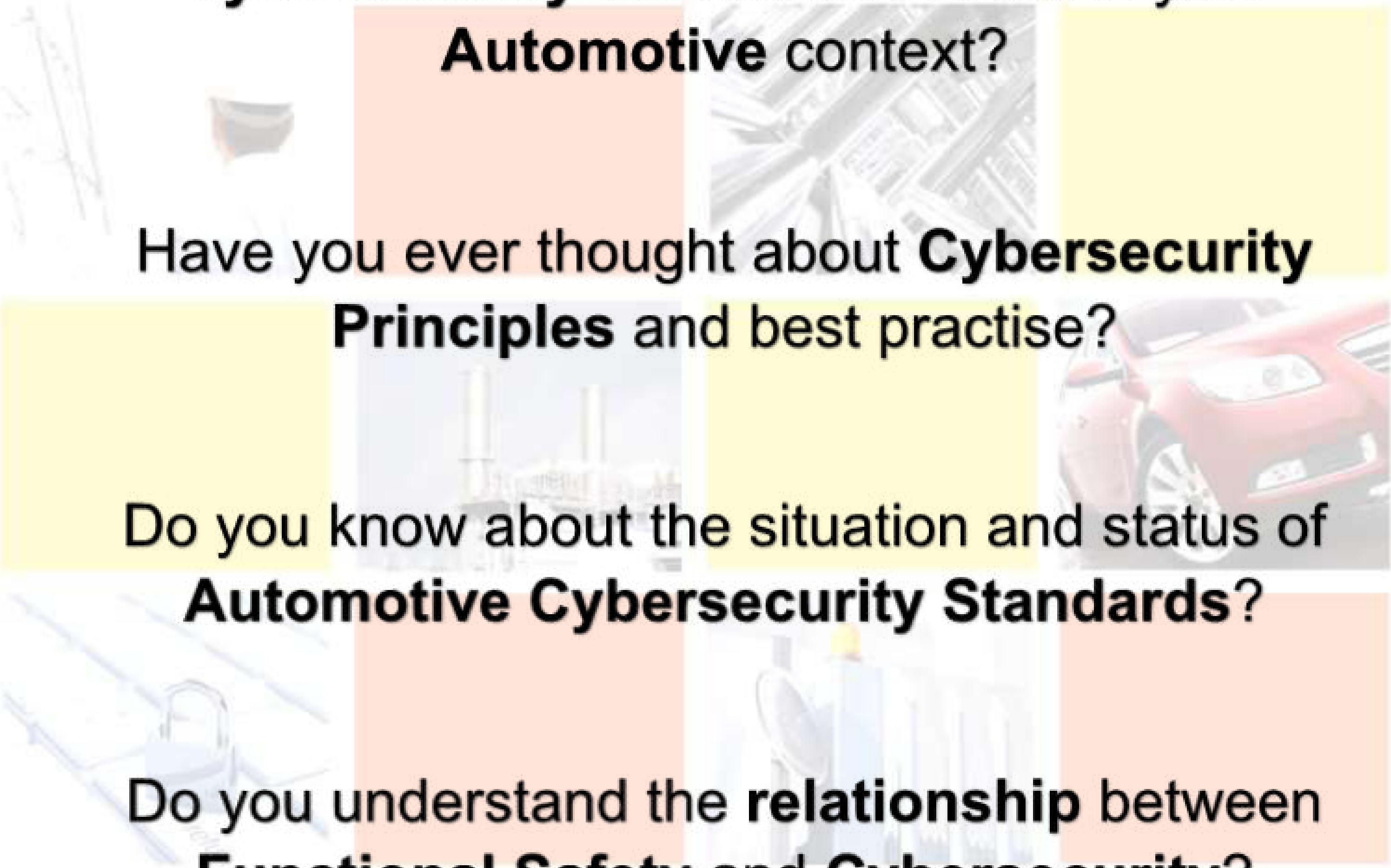
Have you ever asked yourself **how to develop a Cybersecure System** in an Automotive context?



Have you wondered **how** to analyse **Cybersecurity** Threats and Risks in your **Automotive** context?

Have you ever thought about **Cybersecurity Principles** and best practise?

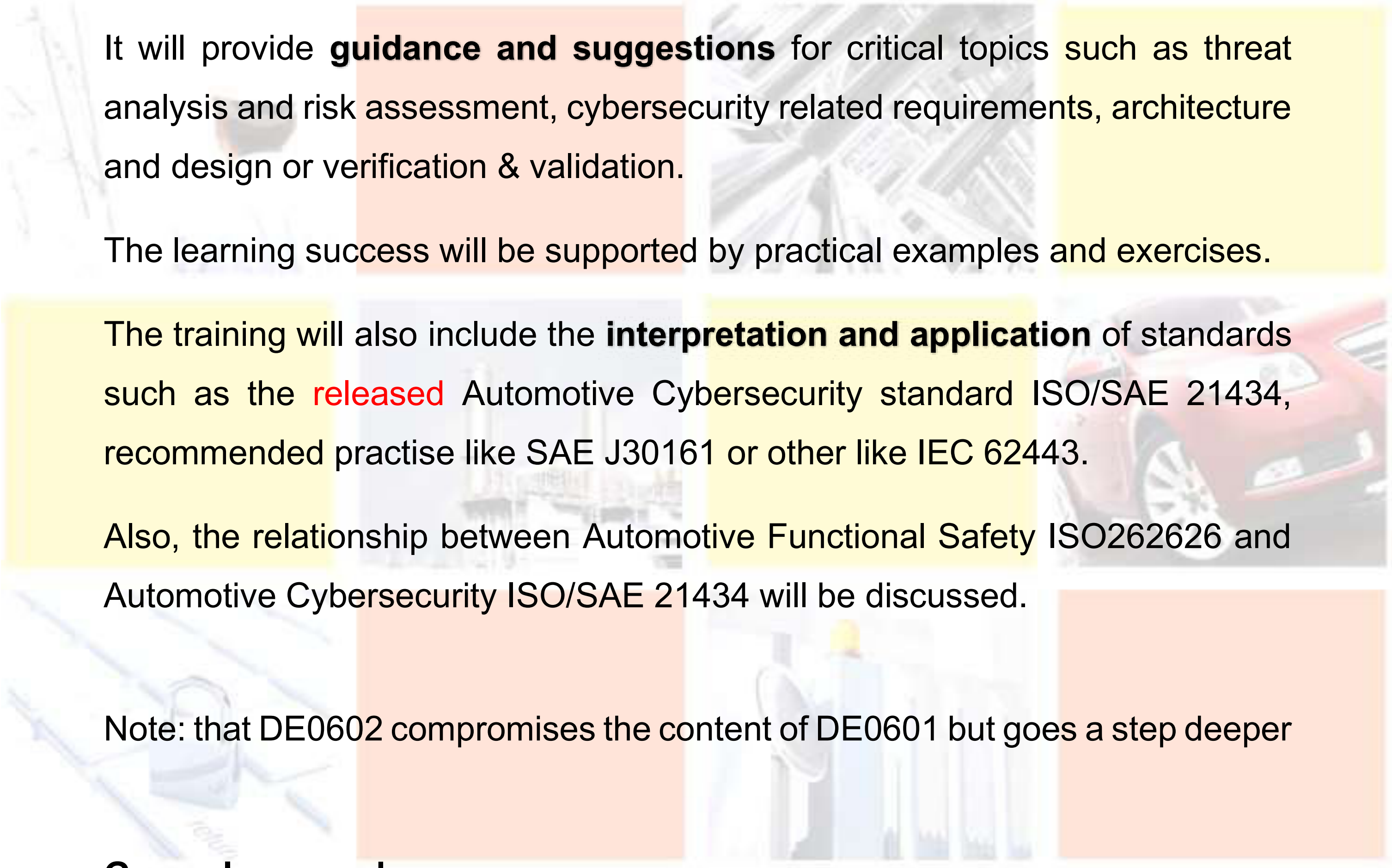
Do you know about the situation and status of **Automotive Cybersecurity Standards**?

Do you understand the **relationship** between **Functional Safety** and **Cybersecurity**?

Join our training and learn more about Automotive Cybersecurity

DE0602 Road Vehicle Cybersecurity in the context of ISO/SAE 21434

This training will support to lay a basis for the **understanding of Automotive Cybersecurity** which is one of the most important topics for the future of highly automated and connected vehicles.



It will provide **guidance and suggestions** for critical topics such as threat analysis and risk assessment, cybersecurity related requirements, architecture and design or verification & validation.

The learning success will be supported by practical examples and exercises.

The training will also include the **interpretation and application** of standards such as the released Automotive Cybersecurity standard ISO/SAE 21434, recommended practise like SAE J30161 or other like IEC 62443.

Also, the relationship between Automotive Functional Safety ISO262626 and Automotive Cybersecurity ISO/SAE 21434 will be discussed.

Note: that DE0602 compromises the content of DE0601 but goes a step deeper

General approach:

- The *exida* approach is to explain **how** the requirements of various standards and regulations can be fulfilled, and not only to show and introduce their requirements.
- The standards and guidelines define a route, typical **solutions** are exemplified using e.g. tools delivered or recommended by exida.com (SafetyCaseDB, FMEDA-Tools, Enterprise Architect and other).

DE0602 Road Vehicle Cybersecurity in the context of ISO/SAE 21434

Who should attend?

- Automotive Cybersecurity responsible persons
- Functional Safety Engineers – who want to understand how they are impacted by Cybersecurity
- Development Engineers (System, Hardware and Software)
- Product Managers
- Project Leaders of cybersecurity related development projects
- Process Managers
- Quality Managers

Duration: 2.5 days (or in-house, jointly agreed, please contact us for more information)

Language: Depending on the participants the training will be given in German or English. The training material will be in English

Location: *exida.com* GmbH office
Prof.-Messerschmitt-Str. 1
85579 Neubiberg / Germany

or online

Certificate: Each participant gets a letter of attendance.

For more information, please contact:
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✉ kerstin.tietel@exida.com

DE0602 Road Vehicle Cybersecurity in the context of ISO/SAE 21434

Agenda and Content

- **Awareness & Motivation**
  - Why became Automotive Cybersecurity a critical discipline?
- **Cybersecurity & Functional Safety**
  - How they differ? What are the synergies? What are the conflicts?
- **ISO/SAE 21434 and related Standards**
  - THE road-vehicle cybersecurity standard is out: What does it address and not address?
  - How do other standards relate?
- **Cybersecurity Management**
  - Organizational cybersecurity management
  - Project dependant cybersecurity management
  - Vulnerability monitoring and incident response
- **Concept Phase**
  - Cybersecurity objectives
  - Item => TARA => security goals
  - TARA methodology
- **Product Development**
  - Cybersecurity Specification
  - V&V
  - ….. requires ….
- **Measures & Mitigations**
- **Attacks**
  - Why absolute security does not exist?