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International Assessor Certification Scheme

Version Control

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1.1. Revision History

Date	Version	Who	Changes made
2025-06-23	0.1	T. Liedtke	Initial version, ready for review
2025-06-30	1.0	L. Dittmann	Review, released
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intacs® certified Automotive SPICE® for Cybersecurity Training

Objective

This training provides a comprehensive introduction to the Automotive SPICE® for Cybersecurity model extension. It equips participants with the necessary knowledge and practical skills to assess development processes from a cybersecurity perspective.

After completing the course, participants will be able to:

- Interpret and apply the Automotive SPICE® for Cybersecurity processes;
- Integrate cybersecurity considerations into process assessments;
- Conduct assessments that meet the requirements of the model extension.

Certified intacs® assessors who successfully complete the training and examination are authorized to lead official assessments using the Automotive SPICE® for Cybersecurity framework.

Content

The content of this training is aligned with the official syllabus published by intacs®. All topics are covered using the standard training material provided by intacs® to accredited training providers.

Participants will gain a comprehensive understanding of the following areas:

- **Cybersecurity Fundamentals**
  - Motivation and objectives of cybersecurity in automotive systems
  - Comparison: Cybersecurity vs. Functional Safety
  - Relevant standards and regulations (e.g., UNECE R155, ISO/SAE 21434)
  - Threat Analysis and Risk Assessment (TARA)
  - Cybersecurity implementation in the development process
  - Testing methods for cybersecurity, including penetration testing
- **Automotive SPICE® for Cybersecurity – Process Details.** Detailed coverage of the new process extensions, including base practices, typical work products, methods, and assessment guidelines:
  - **ACQ.2** – Supplier Request and Selection
  - **MAN.7** – Cybersecurity Risk Management
  - **SEC.1** – Cybersecurity Requirements Elicitation
  - **SEC.2** – Cybersecurity Implementation
  - **SEC.3** – Risk Treatment Verification
  - **SEC.4** – Risk Treatment Validation
- **Cybersecurity Considerations for Existing Automotive SPICE® v3.1 Processes.** Participants will learn how cybersecurity aspects impact and integrate with existing processes:
  - **Acquisition**: ACQ.3, ACQ.4, ACQ.14, ACQ.15
  - **System development**: SYS.2, SYS.3, SYS.4, SYS.5
  - **Software development**: SWE.1 to SWE.6
  - **Support processes**: SUP.1, SUP.8
  - **Management processes**: MAN.3 (Project Management), MAN.5 (Risk Management)

- **Capability Levels**
  - Interpretation and application of Capability Levels 2 and 3 in the context of cybersecurity-related processes
- **Practical Exercises & Exam Preparation.** Application-oriented exercises for key process areas
- Targeted preparation for the official certification exam

Target Audience

- This training is primarily designed for **intacs® certified Automotive SPICE® assessors** who wish to extend their qualification to include cybersecurity assessments.
- It is also suitable for professionals involved in **cybersecurity-related development projects**, provided they have a **solid foundational knowledge of Automotive SPICE®**.

Duration

- 3 days

Preconditions

Ideally

- Participants should hold a valid **intacs® Automotive SPICE® assessor certification**.

Mandatory

- A **sound understanding of the current version of the Automotive SPICE® process assessment model** is required.
- In addition, participants are expected to have **several years of professional experience in the IT or automotive industry**, for example in **software or system development, project management, or quality management**.

Constraints

- Maximum of 12 participants per training

Exam

- Passing the exam is a prerequisite for participation in the VDA-QMC certification process