

# intacs™ certified Automotive SPICE® Cybersecurity Training

## Background

### Cybersecurity ASPICE background:

ISCN is a certified training partner of VDA-QMC and iNTACS for Automotive SPICE.

<http://www.intacs.info/index.php/component/weblinks/category/122-training-organisation>

ISCN is one of the developers of the new training material for cybersecurity ASPICE assessors. ISCN especially developed the processes SEC.1 to SEC.4 and co-developed MAN.7 materials. Therefore the trainers have first hand experience.

### Cybersecurity Knowledge background:

ISCN is a certified training body for the EuroSPI & ASA Certified Functional Safety Manager, and the EuroSPI & ASA cybersecurity engineer.

<https://conference.eurospi.net/index.php/certification>



ISCN in cooperation with TU Graz and DRIVES (<https://www.project-drives.eu/en/ourpartners>) and SOQRATES (<https://soqrates.eurospi.net/>) developed a cybersecurity course and EuroSPI ([www.eurospi.net](http://www.eurospi.net)) certificate for cybersecurity managers and engineers.

ISCN published a scientific Cybersecurity Journal in J.UCS.

<https://lib.jucs.org/issue/3313/>

## ASPICE Cybersecurity Course

In this 3 days training course the attendees get introduced to the ASPICE for cybersecurity PAM and learn (by examples) how to interpret the base practices and what outcomes are expected.

The course also contains a practical TARA exercise and a practical exercise using the MITRE attack navigator.

The TARA in the course is based on the guideline in ISO 21434.

The current version of the course plan is outlined below.

Day 1			Day 2			Day 3		
time	duration	topic	time	duration	topic	time	duration	topic
09:00			09:00			09:00		
09:15	60 min.	1 - introduction participants & training (till basic rules)	09:15	45 min.	rehearsal 1st day   Intro exercise	09:15	45 min.	rehearsal 2nd day   Intro exercise
09:30			09:30			09:30		
09:45			09:45			09:45		
10:00	30 min.	introduction purpose ASPICE, exam, ...	10:00	45 min.	5 - MAN 7 - Risk Management methods	10:00	45 min.	8 - ACQ 2: Supplier Request and Selection
10:15	15 min.	break	10:15	15 min.	break	10:15	15 min.	break
10:30			10:30			10:30		
10:45	45 min.	2 - scope and motivation & history, Cybersecurity properties (Q: what threats)	10:45	45 min.	6 - SEC 1	10:45	45 min.	9 - ACQ 3: Contract Agreement
11:00			11:00			11:00		ACQ 4: Supplier Monitoring/ ACQ.14
11:15			11:15			11:15		ACQ.14/ 15: Supplier Qualification
11:30	30 min.	exercise: proposal (motivation and history)	11:30	60 min.	TARA exercise	11:30	45 min.	SYS 1: Requirement Elicitation
11:45			11:45			11:45		SYS 2: System Requirements Analysis
12:00	30 min.	motivation	12:00			12:00		SYS 3: System Architectural Design
12:15			12:15			12:15		
12:30	60 min.	Lunch break	12:30	60 min.	Lunch break	12:30	60 min.	Lunch break
12:45			12:45			12:45		
13:00			13:00			13:00		
13:15	15 min.	basici know how + summary	13:15	+30 min.	TARA exercise	13:15	15 min.	SWE exercise
13:30			13:30			13:30		SWE.1: Software Requirement Analysis
13:45	45 min.	3 - cybersecurity standards: UNECE	13:45			13:45	45 min.	SWE.2: Software Architectural Design
14:00			14:00			14:00		SWE.3: SW Detail Design and Unit
14:15			14:15	60 min.	SEC.2	14:15	30 min.	SYS.4, SYS.5
14:30	45 min.	ISO/SAE 21434	14:30			14:30		SWE.4, SWE.5, SWE.6
14:45			14:45			14:45	15 min.	SUP.1 QA - SUP.8 CM
15:00	15 min.	ASPICE for CS	15:00	15 min.	7 - SEC.3+4 - Test strategies	15:00	15 min.	break
15:15	15 min.	ASPICE for CS	15:15	30 min.	SEC.3	15:15	30 min.	exercise config mgt
15:30	15 min.	ASPICE for CS guidelines + summary	15:30			15:30		
15:45	15 min.	break	15:45	15 min.	break	15:45	15 min.	MAN 3 process MAN 5 risk management
16:00			16:00	30 min.	SEC.4	16:00	15 min.	exam preparation
16:15			16:15			16:15	15 min.	break
16:30	90 min.	4 - TARA - seven steps	16:30	30 min.	Exercise MITRE ATTACK Navigator	16:30		
16:45			16:45			16:45		
17:00			17:00	15 min.	Summary	17:00		
17:15			17:15			17:15	90 min.	exam
17:30	30 min.	exercise: proposal (motivation and history)	17:30			17:30		
17:45			17:45			17:45		
18:00	end		18:00	end		18:00	end	

**Remark:** The exam is normally planned at the end of day 3, since the exam and material is brand new, we offer the option to prepare and do the exam one day later.

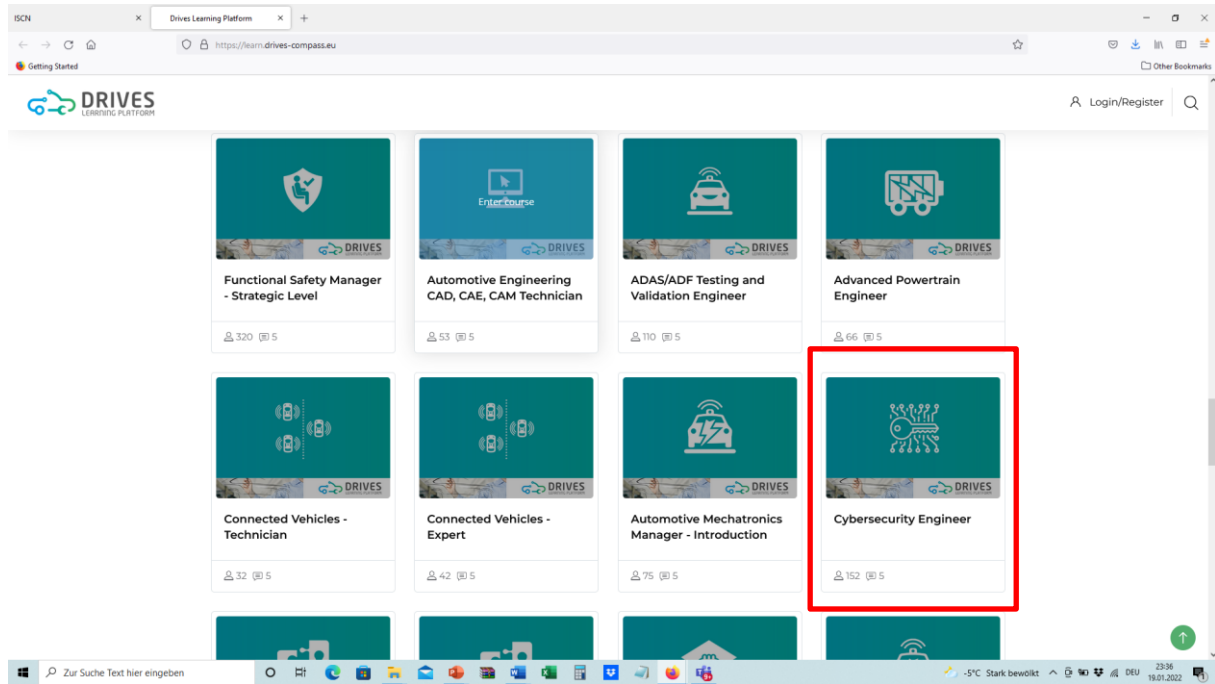
## Resources

### Free DRIVES MOOC Course

The course materials and lectures are online available on the DRIVES platform.

<https://learn.drives-compass.eu/>

DRIVES ist e EU Blueprint project for new skills in automotive, led by ACEA and CLEPA. ISCN is WG3 lead and offers the MOOC for cybersecurity engineering in Automotive for free oline.



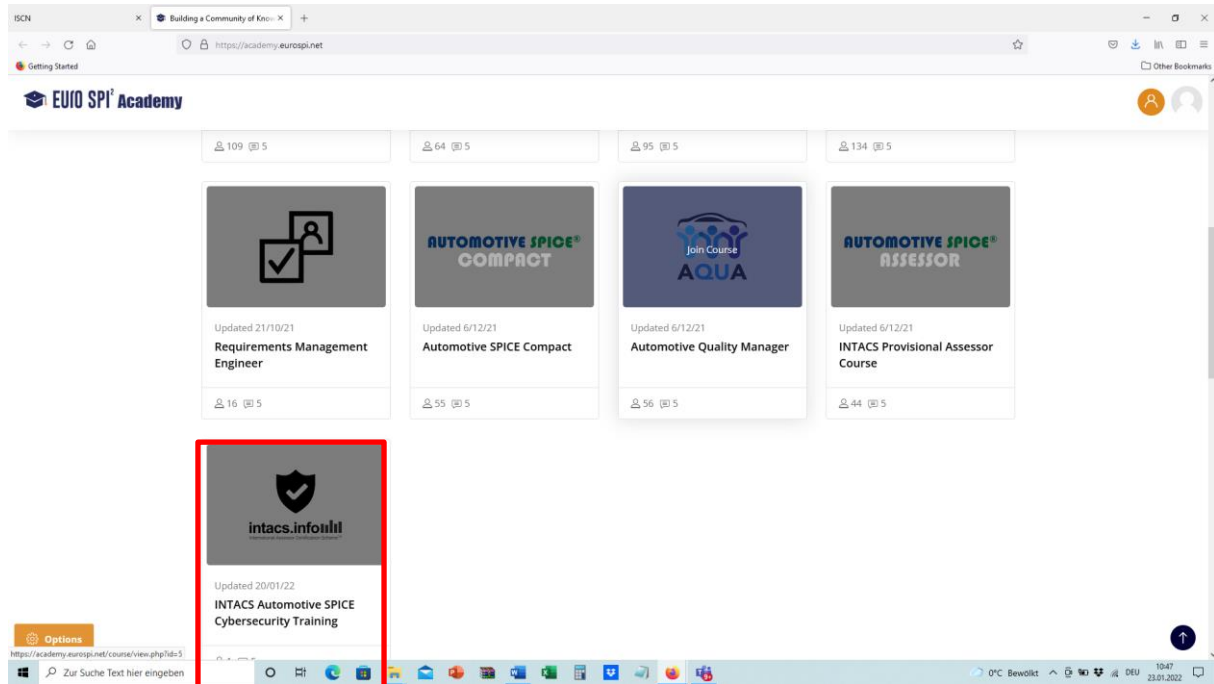
Scroll down and select the course.

- Select the course Functional Safety Manager – Strategic Level.
- Register
- You receive an email and need to confirm by clicking the link in your email.
- Then you can login

### **ASPICE Assessor for Cybersecurity Course**

The course materials and lectures are online available on the EuroSPI Academy platform.

<https://academy.eurospi.net/>



- Select the course Automotive SPICE for Cybersecurity Course.
- Register
- You receive an email and need to confirm by clicking the link in your email.
- Then you can login
- You need the enrollment key - **will be provided** -

This DRIVES course is based on practical Automotive examples from Automotive projects. The exercises are based on best practices in cybersecurity projects which were implemented in leading Automotive suppliers and OEMs.

Trainer

Dr Richard Messnarz

- Principal Automotive SPICE Assessor
- Instructor for ASPICE (including cybersecurity)
- VW Certified Software Quality Improvement Leader (SQIL)
- Internal coach for VW BS
- VDA Certified Competent Level Instructor for Automotive SPICE
- EUROSPI & ASA Certified Functional Safety Trainer
- EUROSPI & ASA Certified Cybersecurity Trainer
- Researcher Profile:  
<https://scholar.google.com/citations?user=v2xVlnwAAAAJ&hl=de&oi=ao>
- 32 years of automotive industry experience
- System Architectures, SW Architectures, Requirements Management, Re-Use
- Requirements Management in Automotive
- Industry projects with BOSCH, ZF, Continental, Magna, HELLA, VW, etc.

- Chairman EuroSPI [www.eurospi.net](http://www.eurospi.net)
- Assessor at BOSCH AS / ZF Lenksysteme since 2003

### MS Teams Links

Stream 1 (Mainstream, start here in the morning)

Will be provided

Stream 2 (2<sup>nd</sup> Exercise Team)

Will be provided