Automotive Cybersecurity Testing Training (paid course)

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom Format
Duration:	1 day (incl. examnation)
Target Group:	For participants from automotive industry who want to learn about and work on cybersecurity testing
Prerequisites:	Software development V model, basic testing process
Goal:	Understand the basic principles of automotive cybersecurity testing and related practices (including Static Code Analysis, Functional Testing, Vulnerability Scanning, Fuzzing, Penetration).

1. **Industry terminology, regulations and international standards**
   - Introduction to industry trend and terminology
   - Interpretation of standards and regulations (ISO 21434:2021, UNECE R.155/R.156, GB 44495-2024, etc.)

2. **Security Testing - Static Code Analysis**
   - Introduction to methodology and tools
   - Sharing of best practice

3. **Security Testing – Functional Testing**
   - Introduction to methodology and tools
   - Sharing of best practice

4. **Security Testing – Vulnerability Scanning**
   - Introduction to methodology and tools
   - Sharing of best practice

5. **Security Testing – Fuzzing**
   - Introduction to methodology and tools
   - Practical exercises (Fuzzing based on CAN bus)

6. **Security Testing – Penetration**
   - Introduction to methodology and tools
   - Practical exercises (Dos and Security Access 0x27 based on CAN bus)

7. **Certificate (Attendance time is not less than 80% of the course duration and exam passed)**