

Seminar

Continuous Engineering and Virtual Validation for Automotive

Day 1 – Foundations of Continuous Engineering

- Introduction to Continuous Engineering
 - Introduction to Continuous Engineering practices for modern software development
 Just enough Traceability among CI/CD pipelines, business, and operational artifacts
- System Quality in Continuous Engineering
 - The ISO 25010 as the Core Quality Model for Continuous Engineering

Day 2 – Testing and V&V for Continuous Engineering

- Best Practices for Test Management and Design in Continuous Engineering
 - Test management for continuous delivery: Organization, planning, and execution
 - Strategies for test documentation in iterative cycles
- Virtual Validation in Continuous Engineering
 - Virtual integration and validation: Tools and methods
 - Integrating Simulations and Digital Twins practices and technologies in CI/CD Pipelines
 - Continuous architecture and design evaluation by means of simulation

Day 3 – Streamlining SPICE and ISO 26262 with Continuous Engineering

Automotive SPICE and Continuous Engineering

- Foundations of Automotive SPICE: Phases, requirements, and artifacts in end-to-end processes
- Continuous architecture and design evaluation by means of simulation
- Case studies: SYS.3 System Architecture and SYS.4 System Integration Test
- Adapting Automotive SPICE processes for iterative and continuous workflows

ISO 26262 Foundations

- Considering ISO 26262 recommendations as an integral part of Continuous Engineering practices
- Testing safety-critical features: Methods and tools

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