

Custommedia Academy is a training outfit of  
Custommedia Sdn Bhd (210378-U)

# CTFL® Automotive Software Tester (CTFL-AuT)

## About the Course

Learn the specific requirements for "testing E/E systems" in the automotive environment on the basis of established standards (Automotive SPICE®, ISO 26262, AUTOSAR®, etc.) plus testing in virtual environments (including XiL), and automotive-specific static and dynamic test techniques

## Course Outline

### Chapter 1: Introduction to Automotive Software Testing

- Requirement from Divergent Project Objective and Increasing Product Complexity
- Project Aspects influenced by Standards
- The Six Generic Phases in the System Lifecycle

### Chapter 2: Standards for the testing of E/E systems

- Automotive SPICE (ASPICE)
- ISO 26262
- AUTOSAR
- Comparison

### Chapter 3: Testing in a virtual environment

- Test environment in general
- Testing in XiL test environments

### Chapter 4: Automotive-specific static and dynamic test techniques

- Static test techniques
- Dynamic test techniques (Condition testing, multiple condition testing, modified condition/decision testing, Back-to- Back Testing , Fault injection Testing, Requirement-based testing , Context-dependent selection of test techniques

(Sourced Foundation Level Specialist, CTFL-Aut Syllabus Version 2018 (2.0.2) dated July 4th – 2018)

## Who Should Attend

All persons involved in software testing in the automotive area such as testers, test analysts, test engineers, test consultants, test managers, release testers, and software developers. Also recommended for Project manager, quality manager, software development manager, system analyst (business analysts), IT manager, and management consultants.

### Business Outcomes

- Adapt the test techniques learnt from the ISTQB® Certified Tester Foundation Level (CTFL) to the specific automotive requirements and standards, ASPICE, ISO26262 and AUTOSAR
- Be able to recall the six generic phases in the system life cycle per ISO/IEC 24748-1
- Design a verification strategy (in contrast to a test strategy) and criteria for unit verification from ASPICE
- Create test cases to achieve modified condition/decision testing coverage, use back-to-back testing and coding standards

TRAINING PARTNER



DURATION

**2 DAYS**

MODE: ONLINE/F2F



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