

ISTQB CT-AuT

**ISTQB CTFL - AUTOMOTIVE SOFTWARE TESTER CERTIFICATION
QUESTIONS & ANSWERS**

Exam Summary – Syllabus – Questions

CT-AUT

ISTQB Certified Tester Foundation Level - Automotive Software Tester (CT-AuT)

40 Questions Exam – 26/40 Cut Score – Duration of 60 minutes

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Know Your CT-AuT Certification Well:

The CT-AuT is best suitable for candidates who want to gain knowledge in the ISTQB Specialist. Before you start your CT-AuT preparation you may struggle to get all the crucial CTFL - Automotive Software Tester materials like CT-AuT syllabus, sample questions, study guide.

But don't worry the CT-AuT PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the CT-AuT syllabus?
- How many questions are there in the CT-AuT exam?
- Which Practice test would help me to pass the CT-AuT exam at the first attempt?

Passing the CT-AuT exam makes you ISTQB Certified Tester Foundation Level - Automotive Software Tester (CT-AuT). Having the CTFL - Automotive Software Tester certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

ISTQB CT-AuT CTFL - Automotive Software Tester Certification Details:

Exam Name	ISTQB Certified Tester Automotive Software Tester
Exam Code	CT-AuT
Exam Fee	USD \$215
Exam Duration	60 Minutes
Number of Questions	40
Passing Score	26/40
Format	Multiple Choice Questions
Schedule Exam	Pearson VUE
Sample Questions	ISTQB CTFL - Automotive Software Tester Exam Sample Questions and Answers
Practice Exam	ISTQB Certified Tester Foundation Level - Automotive Software Tester (CT-AuT) Practice Test

CT-AuT Syllabus:

Topic	Details
Introduction (K2) [30 Min]	
Requirements from divergent project objectives and increasing product complexity (K2) [15 Min]	
Project aspects influenced by standards (K1) [5 Min]	
The six generic phases in the system lifecycle (K1) [5 Min]	
The contribution/participation of the tester in the release process (K1) [5 Min]	
Standards for the testing of E/E systems (K3) [300 Min]	
Automotive SPICE (ASPICE) (K3) [140 Min]	<ul style="list-style-type: none"> - Design and structure of the standard (K2) [25 Min] - Requirements of the standard (K3) [115 Min]
ISO 26262 (K3) [125 Min]	<ul style="list-style-type: none"> - Functional safety and safety culture (K2) [20 Min] - Integration of the tester in the safety lifecycle (K2) [15 min] - Structure and test specific parts of the standard (K1) [10 Min] - The influence of criticality on the extent of the test (K2) [20 Min] - Application of content from CTFL® in the context of ISO 26262 (K3) [60 Min]
AUTOSAR (K1) [15 Min]	<ul style="list-style-type: none"> - Objectives of AUTOSAR (K1) [5 Min] - General structure of AUTOSAR (K1) [informative] [5 Min] - Influence of AUTOSAR on the work of the tester (K1) [5 Min]
Comparison (K2) [20 Min]	<ul style="list-style-type: none"> - Objectives of ASPICE and ISO 26262 (K1) [5 Min] - Comparison of the test levels (K2) [15 Min]

Topic	Details
Testing in a virtual environment (K3) [160 Min]	
Test environment in general (K2) [30 Min]	<ul style="list-style-type: none"> - Motivation for a test environment in the automotive development (K1) [5 Min] - General parts of a test environment (K1) [5 Min] - Differences between Closed-Loop and Open-Loop (K2) [15 Min] - Essential interfaces, databases and communication protocols of a electronic control unit (K1) [5 Min]
Testing in XiL test environments (K3) [130 Min]	<ul style="list-style-type: none"> - Model in the Loop (MiL) (K2) [20 Min] - Software in the Loop (SiL) (K1) [10 Min] - Hardware in the Loop (HiL) (K2) [20 Min] - Comparison of the XiL test environments (K3) [80 Min]
Automotive-specific static and dynamic test techniques [230 Min]	
Static test techniques (K3) [75 Min]	<ul style="list-style-type: none"> - The MISRA-C: 2012 Guidelines (K2) [15 Min] - Quality characteristics for reviews of requirements (K3) [60 Min]
Dynamic test techniques (K3) [155 Min]	<ul style="list-style-type: none"> - Condition testing, multiple condition testing, modified condition/decision testing (K3) [60 Min] Decision outcome for the expression: - Back-to-Back-Testing (K2) [15 Min] - Fault injection testing (K2) [15 Min] - Requirements-based testing (K1) [5 Min] - Context-dependent selection of test techniques (K3) [60 Min]

ISTQB CT-AuT Sample Questions:

Question: 1

With which of the measures listed below can the objectives of an increasingly complex software development project be best achieved in the short run?

- a) By insourcing an outsourced projects
- b) By using effective methods and processes
- c) By ensuring efficient qualification of employees
- d) By outsourcing of complex projects

Answer: b

Question: 2

What are the six stages in the system product life cycle according to ISO/IEC 24748?

- a) Concept, Development, Acceptance, Utilization, Support, Retirement
- b) Concept, Development, Production, Release, Support, Retirement
- c) Concept, Implementation, Production, Utilization, Support, Retirement
- d) Concept, Development, Production, Utilization, Support, Retirement

Answer: d

Question: 3

What is especially important in the selection of test design techniques in the context of ISO 26262?

- a) White-box-test design techniques should be preferred over black-box-test design techniques, as the tester can take advantage of knowledge of the code
- b) The recommendation of the ISO 26262 for the identified ASIL is the decisive factor for the selection of the test design techniques
- c) Intuitive test design techniques should always be preferred over structure based test design techniques
- d) The combination of the suitability of the test basis and the test level together with a high risk of non-detected errors is the decisive factor for the test design techniques to be selected

Answer: d

Question: 4

Which interfaces are used to collect and distribute information in an electronic control unit (ECU)?

- a) Environment model, bus system and diagnosis interface
- b) Analogue and digital inputs, watchdog and internal data memory
- c) Analogue and digital inputs, supply voltage and diagnosis interface
- d) Analogue and digital inputs, bus system and diagnosis interface

Answer: d

Question: 5

Which three items are all parts of a Hardware-in-the-Loop (HiL) test environment?

- a) Test case generator, rest bus simulation, power supply
- b) Breakout box, software compiler, real parts
- c) Power supply, real-time capable computer, electric error simulation
- d) Electric error simulation, signal processing, processor simulation

Answer: c

Question: 6

Imagine you are participating in an Automotive SPICE® – Assessment in your role as integration tester and you are receiving the information that your process has been assessed as "L," using the process at-tribute PA 1.1.

Which ONE of the following options is correct?

- a) "L" not fulfilled
- b) "L" partly fulfilled
- c) "L" largely fulfilled
- d) "L" fully fulfilled

Answer: c

Question: 7

Which test is typically performed at a Component Hardware-in-the-Loop (HiL) test environment?

- a) Test of the overall system requirements for the vehicle
- b) Test of the driving behavior of the chassis
- c) Test of the electronic control unit functions for correct behavior
- d) Test of the data exchange between the electronic control units

Answer: c

Question: 8

Which of the following statements is NOT a description of a fault injection test?

- a) Fault injection tests insert faults in the behavior of external components to detect that the system can deal with erroneous situations
- b) Fault injection tests insert faults in internal interfaces, e.g. as lost messages
- c) Fault injection tests insert faults in the system specification, e.g. as too low parameters for the required performance
- d) Fault injection tests insert faults in the operating unit that show as internal defects

Answer: c

Question: 9

Which of the following is a dimension defined in Automotive SPICE®?

- a) Process dimension
- b) Time dimension
- c) Resource dimension
- d) Objective dimension

Answer: a

Question: 10

Which items are part of an automotive specific test environment?

- a) Control computer, simulation software, data logger
- b) Real-time capable computer, network accesses, report database
- c) Measuring devices, specification documents, laboratory
- d) Data management tool, operating system, environment model

Answer: a

Study Guide to Crack ISTQB CTFL - Automotive Software Tester CT-AuT Exam:

- Getting details of the CT-AuT syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the CT-AuT exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the ISTQB provided training for CT-AuT exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the CT-AuT sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on CT-AuT practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for CT-AuT Certification

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