ISTQB CT-MBT

ISTQB CT - MODEL-BASED TESTER CERTIFICATION QUESTIONS & ANSWERS

Exam Summary – Syllabus – Questions

CT-MBT

ISTQB Certified Tester - Model-Based Tester (CT-MBT)

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

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Know Your CT-MBT Certification Well:

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

But don't worry the CT-MBT 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-MBT syllabus?
- How many questions are there in the CT-MBT exam?
- Which Practice test would help me to pass the CT-MBT exam at the first attempt?

Passing the CT-MBT exam makes you ISTQB Certified Tester - Model-Based Tester (CT-MBT). Having the Model-Based 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-MBT Model-Based Tester Certification Details:

Exam Name	ISTQB Certified Tester - Model-Based Tester
Exam Code	CT-MBT
Exam Fee	USD $199
Exam Duration	60 Minutes
Number of Questions	40
Passing Score	26/40
Format	Multiple Choice Questions
Schedule Exam	**Pearson VUE**
Sample Questions	**ISTQB CT – Model-Based Tester Exam Sample Questions and Answers**
Practice Exam	**ISTQB Certified Tester - Model-Based Tester (CT-MBT) Practice Test**

CT-MBT Syllabus:

Topic	Details
Introduction to Model-Based Testing - 90 mins.	
Objectives and Motivations for MBT	- Describe expected benefits of MBT - Describe misleading expectations and pitfalls of MBT
MBT Activities and Artifacts in the Fundamental Test Process	- Summarize the activities specific to MBT when deployed in a test process - Recall the essential MBT artifacts (inputs and outputs)
Integrating MBT into the Software Development Lifecycle	- Explain how MBT integrates into software development lifecycle processes - Explain how MBT supports requirements engineering
MBT Modeling - 250 mins.	
MBT Modeling	- Develop a simple MBT model for a test object and predefined test objectives using a workflow-based modeling language (refer to section 9.1 – "simple" means less than 15 modeling elements) - Develop a simple MBT model for a test object and predefined test objectives using a state transition-based modeling language (refer to section 9.2 – "simple" means less than 15 modeling elements) - Classify an MBT model with respect to the subject and to the focus - Give examples of how an MBT model depends on the test objectives
Languages for MBT Models	- Recall examples of modeling language categories commonly used for MBT - Recall typical representatives of modeling language categories relevant for different systems and project objectives
Good Practices for MBT Modeling Activities	- Recall quality characteristics for MBT models - Describe classic mistakes and pitfalls during modeling activities for MBT - Explain the advantages of linking requirements and process related information to the MBT model - Explain the necessity of guidelines for MBT modeling - Provide examples where reuse of existing models (from requirements phase or development phase) is or is not appropriate - Recall tool types supporting specific MBT modeling activities

Topic	Details
	- Summarize iterative MBT model development, review and validation

Selection Criteria for Test Case Generation - 205 mins.

Topic	Details
Classification of MBT Test Selection Criteria	- Classify the various families of test selection criteria used for test generation from models - Generate test cases from an MBT model to achieve given test objectives in a given context - Provide examples of model coverage, data-related, pattern- and scenario-based and project-based test selection criteria - Recognize how MBT test selection criteria relate to ISTQB Foundation Level test design techniques
Applying Test Selection Criteria	- Recall degrees of test artifact generation automation - Apply given test selection criteria to a given MBT model - Describe good practices of MBT test selection criteria

MBT Test Implementation and Execution - 120 mins.

Topic	Details
Specifics of MBT Test Implementation and Execution	- Explain the difference between abstract and concrete test cases in the MBT context - Explain the different kinds of test execution in the MBT context - Perform updates of an MBT model and test generation caused by changes in requirements, test objects or test objectives
Activities of Test Adaptation in MBT	- Explain which kind of test adaptation may be necessary for test execution in MBT

Evaluating and Deploying an MBT Approach - 60 mins.

Topic	Details
Evaluate an MBT Deployment	- Describe ROI factors for MBT introduction - Explain how the objectives of the project are related to the characteristics of the MBT approach - Recall selected metrics and key performance indicators to measure the progress and results of MBT activities
Manage and Monitor the Deployment of an MBT Approach	- Recall good practices for test management, change management and collaborative work when deploying MBT - Recall cost factors of MBT - Give examples of the integration of the MBT tool with configuration management, requirements management, test management and test automation tools

ISTQB CT-MBT Sample Questions:

Question: 1

An MBT approach is used in a project. Which statement below regarding MBT activities is most correct?

   a) MBT modeling activities should start as soon as possible, but not before having finished the detailed system design.
   b) Test selection criteria are used to drive test generation from the MBT model.
   c) MBT activities in a test process should follow a strictly sequential order.
   d) MBT models reflect the system requirements, but do not consider the project test objectives.

Answer: b

Question: 2

How does MBT foster early requirements validation?

   a) MBT requires a model-based requirements specification and, thus, forces the requirements engineers to be more precise.
   b) The MBT model visualizes complex dependencies and, thus, facilitates discussions between stakeholders having different level of technical knowledge.
   c) The MBT model has to be released together with the requirements specification, which leads to an early start of testing activities.
   d) MBT implies the generation of automated test scripts and, thus, ensures a higher coverage of regression testing.

Answer: b

Question: 3

Time for test execution is running short. How can MBT help you?

   a) If the MBT model contains information on priorities, you may apply project-driven test case selection to limit the number of generated test cases to those with high priority.
   b) You will not run into this problem, because the automated test case generation in MBT provides you with new test cases within a few seconds by pressing a button.
   c) Test execution is far less important in MBT, because requirements validation takes place even before the first test is performed.
   d) Not at all. MBT does not provide any support for test management in difficult situations.

Answer: a

Question: 4

Does it make sense to have test equipment information in the MBT model?

a) Yes. It helps the test manager to create a test suite with all tests requiring specific equipment.
b) Yes. Without this information, testers will never be able to specify the tests correctly.
c) No. It blows up the MBT model without providing helpful information.
d) No. The test case generator will not understand the information and, thus, will not generate any test cases from the MBT model.

Answer: a

Question: 5

A company decided to use MBT for acceptance testing of a transport ticketing system. Which one of the following metrics would a test manager use to best measure the progress of MBT activities?

a) The number of requirements managed and traced in the MBT model, and requirements coverage (percentage) by generated test cases.
b) The effort (in person-days) done for code development.
c) The number of bugs discovered in the component testing phase.
d) The effort (in person-days) spent on developing test models and applying test selection criteria.

Answer: a

Question: 6

An MBT approach is deployed in a project. Which one of the following statements describes good practice?

a) Deploying MBT with manual test execution requires additional risk management.
b) Configuration management does not have to cover the MBT models, if the generated test cases are controlled.
c) For projects applying continuous integration, MBT should be used for higher test levels only (system testing, user acceptance testing).
d) Establishing traceability between requirements and MBT model elements is part of an MBT approach.

Answer: d

Question: 7

Which one of the following statements is the best definition of model-based testing?

a) A testing technique using models to generate automated scripts.
b) A test design technique that uses state transition diagrams to design test cases.
c) Acceptance testing using business process models.
d) Testing based on or involving models.

Answer: d

Question: 8

Why do we need new approaches to testing?

a) Classic test design techniques such as boundary value analysis are incompatible with agile approaches.
b) New technologies always require new tools and, thus, new approaches to testing.
c) Testing projects have to cope with increasing industrial demands regarding time-to-market and cost reduction.
d) By definition, new approaches are better and there is no reason not to use them.

Answer: c

Question: 9

Consider the following tools supporting the MBT modeling process. Which tool provides support for writing syntactically correct MBT models?

a) UML modeling tool.
b) State/transition diagram editor.
c) All of these.
d) Domain-specific language editor.

Answer: c

Question: 10

Which one of the following statements is a typical combination of test selection criteria for an MBT model?

a) Path coverage on structural models.
b) Transition coverage on business process models.
c) Gateway coverage on textual models.
d) Transition pair coverage on state diagrams.

Answer: d

Study Guide to Crack ISTQB Model-Based Tester CT-MBT Exam:

● Getting details of the CT-MBT 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-MBT 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-MBT 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-MBT 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-MBT practice tests is must. Continuous practice will make you an expert in all syllabus areas.

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