CTFL-MBT

ISTQB Certified Tester Foundation Level - Model Based Tester

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Key to success in CTFL-MBT Exam on ISTQB Certified Tester Foundation Level - Model Based Tester

To achieve the professional designation of ISTQB Certified Tester Foundation Level - Model Based Tester from the ISTQB, candidates must clear the CTFL-MBT Exam with the minimum cut-off score. For those who wish to pass the ISTQB CTFL-MBT certification exam with good percentage, please take a look at the following reference document detailing what should be included in ISTQB Model-Based Tester Exam preparation.

The ISTQB CTFL-MBT Exam Summary, Body of Knowledge (BOK), Sample Question Bank and Practice Exam provide the basis for the real ISTQB Certified Tester Foundation Level - Model Based Tester exam. We have designed these resources to help you get ready to take ISTQB Certified Tester Foundation Level - Model Based Tester (CTFL-MBT) exam. If you have made the decision to become a certified professional, we suggest you take authorized training and prepare with our online premium ISTQB Model-Based Tester Practice Exam to achieve the best result.

ISTQB CTFL-MBT Certification Details:

Exam Name	ISTQB Certified Tester Foundation Level - Model Based Tester
Exam Code	CTFL-MBT
Exam Fee	USD $200
Exam Duration	60 Minutes
Number of Questions	40
Passing Score	65%
Format	Multiple Choice Questions
Schedule Exam	Pearson VUE
Sample Questions	ISTQB CTFL-MBT Exam Sample Questions and Answers
Practice Exam	ISTQB Certified Tester Foundation Level - Model Based Tester Practice Test

ISTQB CTFL-MBT Exam Syllabus:

Domain	Details
Introduction to Model-Based Testing	
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	
MBT Modeling	- Develop a simple MBT model for a test object and predefined test objectives using a workflow-based modeling language - Develop a simple MBT model for a test object and predefined test objectives using a state transition-based modeling language - 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 - Summarize iterative MBT model development, review and validation
Selection Criteria for Test Case Generation	
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	
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	
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

CTFL-MBT Sample Questions:

01. 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.

02. Online execution in MBT means that…
a) Test case execution does not require reporting.
b) Test case generation and execution are combined into one step.
c) Test case generation is performed after test execution.
d) Test case generation does not require documentation.

03. 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) MBT models reflect the system requirements, but do not consider the project test objectives.

c) MBT activities in a test process should follow a strictly sequential order.

d) Test selection criteria are used to drive test generation from the MBT model.

04. 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.

05. If the MBT model contains concrete data values...

a) The generated test cases may or may not be concrete test cases.

b) The generated test cases are incomplete.

c) The generated test cases are nevertheless abstract test cases.

d) The generated test cases are by definition concrete test cases.

06. 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) Domain-specific language editor.

d) All of the above.

07. 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.

08. How does MBT foster early requirements validation?

a) The MBT model visualizes complex dependencies and, thus, facilitates discussions between stakeholders having different level of technical knowledge.

b) MBT requires a model-based requirements specification and, thus, forces the requirements engineers to be more precise.

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.

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09. 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.

10. 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.

Answers to CTFL-MBT Exam Questions:

Question: 01 Answer: d	Question: 02 Answer: b	Question: 03 Answer: d	Question: 04 Answer: a	Question: 05 Answer: a
Question: 06 Answer: c	Question: 07 Answer: a	Question: 08 Answer: a	Question: 09 Answer: d	Question: 10 Answer: a

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@processexam.com

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