

[AMTC]: ASTQB Mobile Testing Certificate

Length : 2 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

Built for testers, this course covers the basics of testing mobile applications, highlighting the specific issues with mobile testing, and identifying and explaining the best test techniques to use.

Designed for testers with experience with functional testing, this course highlights the issues and best approaches for testing mobile applications.

Attendees will learn how to approach mobile testing projects, which quality characteristics to address and how to plan, organise and execute the testing.

Because mobile projects tend to be fast-paced and the devices and user profiles are so widely varied, traditional testing approaches may not meet the needs of the project. This course will show the tester how to prioritise the testing, how to work with the project team to quantify the risks, how to determine the best tools to use for the testing, and how to accomplish the testing efficiently within tight time constraints.

Audience Profile

- Testers who are working on mobile projects.
- Prospective testers wanting to gain hands-on mobile testing skills to leverage in their new career.
- Testers seeking certification as a Certified Mobile Tester.

At Course Completion

- Identify and mitigate the challenges that face a mobile application tester.
- Plan, design and implement appropriate test cases for mobile applications.
- Work with other team members to identify and assess risks and to implement a testing solution to help mitigate those risks.
- Identify the applicable quality characteristics for a mobile application and identify an appropriate testing approach to address those characteristics.
- Participate in tool analysis and selection to select the most appropriate tools for conducting mobile application testing.
- Identify areas for non-functional testing and prepare appropriate tests for those areas.
- Understand the differences between the various mobile application types and select appropriate tools, techniques and approaches to test those applications.
- Effectively employ simulators, emulators and the cloud for testing.
- Participate in planning for the future, including proper tool selection and building for maintainability.

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Assessment

The examination is a closed book, 40-question multiple choice exam. Candidates must score a minimum of 26 to become an ASTQB certified Mobile Testing professional at the Foundation level. Examinations are independently administered.

Course Outline**Module 1: Introducing the Mobile Test World****Lessons**

- What is a Mobile Application
- Expectations from Mobile Users
- Challenges for Testers
- Necessary Skills
- Equipment Requirements
- Lifecycle Models

Module 2: Test Planning and Design**Lessons**

- Identify Functions and Attributes
- Identify and Assess Risks
- Determine Coverage Goals
- Determine Test Approach
- Identify Test Conditions and Set Scope
- Regression Testing

Module 3: Quality Characteristics for Mobile Applications**Lessons**

- Functional
- Security
- Performance
- Activity: Determine performance testing Requirements
- Usability
- Reliability
- Portability

Module 4: Testing Techniques**Lessons**

- Equivalence Partitioning
- Boundary Value Analysis
- Decision Tables
- State Transition Models
- Use Cases
- Experience-based Techniques

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- Defect-based Techniques
- Combinatorial Techniques
- Activity: Apply test design techniques

Module 5: Using Statistics**Lessons**

- Determining Market Usage
- Setting Priorities

Module 6: Environments and Tools**Lessons**

- Environments and Protocols
- Using Real Devices
- Using Simulator/Emulators
- Activity: Determine when to use simulators
- Cloud
- Activity: Determine when and how to use a Cloud environment
- Activity: Select appropriate tools and environments

Module 7: Planning for the Future**Lessons**

- Building for Change
- Ensuring Maintainability
- Activity: Determine appropriate activities to reduce maintenance

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