Certification Track: Mobile Software Testing Specialist (QA)

Duration: Approximately 40 hours

Audience:

- This certification track is designed for

- QA professionals aiming to specialize in Mobile Software Testing.

- Participants should have a foundational understanding of software testing concepts and be familiar with QA processes.

- **This track is suitable for testers, test analysts, and QA engineers.**

Course Overview:

This comprehensive certification track covers the essentials of Mobile Software Testing, providing participants with the knowledge and skills required to excel in the dynamic field of mobile application testing. The track includes specialized modules on mobile testing techniques and culminates with the internationally recognized ISTQB (International Software Testing Qualifications Board) certification at the Foundation Level.

This certification track equips QA professionals with specialized skills in Mobile Software Testing, culminating in the prestigious ISTQB Foundation Level Certification. Participants will gain practical insights, hands-on experience, and the confidence to excel in the field of mobile application testing.

Course Modules:

Module 1: Introduction to Mobile Testing

- Session 1: Overview of Mobile Testing

    - Importance of mobile testing in the software development lifecycle

    - Key challenges and considerations in mobile testing

- Session 2: Mobile Testing Strategies

    - Types of mobile applications (native, web, hybrid)

    - Choosing appropriate testing strategies for different mobile apps

Module 2: Fundamentals of Software Testing

- Session 3: Basics of Software Testing

    - Software testing principles and fundamentals

    - Importance of testing in software quality assurance

- Session 4: Software Development Lifecycle (SDLC) and Testing

    - Integrating testing into different phases of the SDLC

    - Understanding the role of QA in the development process

Module 3: Mobile Testing Environment

- Session 5: Mobile Operating Systems and Devices

    - Overview of major mobile operating systems (iOS, Android)

    - Device fragmentation and its impact on testing

- Session 6: Mobile Emulators and Simulators

    - Using emulators and simulators for testing

    - Advantages and limitations of virtual testing environments

Module 4: Mobile App Installation and Configuration Testing

- Session 7: Installation and Uninstallation Testing

  - Ensuring smooth app installation and uninstallation

  - Handling app updates and version compatibility

- Session 8: App Configuration Testing

  - Verifying app settings and configurations

  - Testing app behavior under different configurations

Module 5: Mobile Usability and User Experience Testing

- Session 9: Usability Testing for Mobile Apps

  - Evaluating the user interface (UI) and user experience (UX)

  - Addressing usability issues and improving user satisfaction

- Session 10: Accessibility Testing

  - Ensuring mobile apps are accessible to users with disabilities

  - Compliance with accessibility standards and guidelines

Module 6: Performance Testing for Mobile Apps

- Session 11: Mobile App Performance Testing

  - Strategies for testing app performance under different conditions

  - Identifying and mitigating performance bottlenecks

- Session 12: Load and Stress Testing

  - Conducting load and stress tests on mobile applications

  - Interpreting performance metrics and optimizing app performance

ISTQB Foundation Level Certification Preparation

Module 7: ISTQB Foundation Level Overview

- Session 13: Introduction to ISTQB Certification

    - Understanding the importance of ISTQB certification

    - Overview of the ISTQB Foundation Level syllabus

- Session 14: ISTQB Exam Preparation

    - Reviewing key concepts from the ISTQB syllabus

    - Practice exams and exam-taking strategies

Module 8: ISTQB Foundation Level Exam (External Exam Arrangement)

Certification Track Conclusion:

- Session 16: Recapitulation of Key Concepts

    - Reviewing key concepts covered throughout the certification track

    - Addressing participant queries and concerns

- Session 17: Distribution of Certificates

    - Awarding certificates of completion for the Mobile Software Testing Specialist track

    - Guidance on next steps in professional development