BLUEMARK ACADEMY

ISTQB Advanced Technical Test Analyst

Duration: 3 Days · **Training format:** Virtual Classroom / Online

Description

The ISTQB Advanced Technical Test Analyst course extends the broad understanding of testing acquired at Foundation Level to enable the role of Technical Test Analyst to be performed. This two day tutor-led course includes lectures, exercises and practical work, as well as exam preparation.

The ISTQB Certified Technical Test Analyst Advanced Level is principally aimed at test practitioners who have achieved an advanced point in their careers in software testing and are expecting to be actively involved in the technical aspects of software testing, including test automation, non-functional testing, black-box testing and white-box testing, and who want to increase their knowledge and skills beyond the levels covered by the Foundation and Intermediate qualifications.

This includes people in roles such as testers, test analysts, test engineers, test consultants, test managers, user acceptance testers and software developers. This Advanced Level qualification is also appropriate for anyone who wants a deeper understanding of software testing, such as project managers, quality managers, software development managers, business analysts and management consultants.

Delegates should be able to:

- Recognize and classify the typical risks associated with the performance, security, reliability, portability and maintainability of software systems.
- Create test plans which detail the planning, design and execution of tests for mitigating performance, security, reliability, portability and maintainability risks.
- Select and apply appropriate structural design techniques to ensure that tests provide an adequate level of confidence, based on code coverage and design coverage.
- Effectively participate in technical reviews with developers and software architects applying knowledge of typical mistakes made in code and architecture.
- Recognize risks in code and software architecture and create test plan elements to mitigate those risks through dynamic analysis.
- Propose improvements to the security, maintainability and testability of code by applying static analysis.
- Outline the costs and benefits to be expected from introducing particular types of test automation.
- Select appropriate tools to automate technical testing tasks.
- Understand the technical issues and concepts in applying test automation.

Outline

Structural Test Techniques

- Case Study
- Examples of Structural Test Techniques
- Test Coverage Measurement Tools
- Branch Test
- Sample Application

Static Analysis Techniques

- Key Features and Benefits
- Static Analysis Tools
- Sample Automation Application

Dynamic Analysis Techniques (Non-Functional Test Techniques)

- Reliability Tests
- Maintenance Tests
- Compatibility Tests
- Performance Tests
- Security Tests
- Sample Test Automation Study

Reviews

- Code Review
- Technical Architecture Review
- Sample Application

Test Automation Tools

- Keyword Driven Testing
- Sample Test Automation Case

Risk-Based Test Approach

- Sample Risk-Based Technical Test Approach Case