

ISTQB Certified Tester Foundation Level 4.0

Durată curs: 10 cursuri x 3 ore

Programa:

1. Fundamentals of Testing

- Ⓐ What is Testing?
 - 1. Test Objectives
 - 2. Testing and Debugging
- Ⓐ Why is Testing Necessary
 - 1. Testing's Contributions to Success
 - 2. Testing and Quality Assurance (QA)
 - 3. Errors, Defects, Failures, and Root Causes
- Ⓐ Testing Principles
- Ⓐ Test Activities, Testware and Test Roles
 - 1. Test Activities and Tasks
 - 2. Test Process in Context
 - 3. Testware
 - 4. Traceability between the Test Basis and Testware
 - 5. Roles in Testing
- Ⓐ Essential Skills and Good Practices in Testing
 - 1. Generic Skills Required for Testing
 - 2. Whole Team Approach
 - 3. Independence of Testing

2. Testing Throughout the Software Development Lifecycle

- Ⓐ Testing in the Context of a Software Development Lifecycle
 - 1. Impact of the Software Development Lifecycle on Testing
 - 2. Software Development Lifecycle and Good Testing Practices
 - 3. Testing as a Driver for Software Development
 - 4. DevOps and Testing
 - 5. Shift-Left Approach
 - 6. Retrospectives and Process Improvement
- Ⓐ Test Levels and Test Types
 - 1. Test Levels
 - 2. Test Types
 - 3. Confirmation Testing and Regression Testing
- Ⓐ Maintenance Testing

3. Static Testing

Static Testing Basics

- 1. Work Products Examinable by Static Testing
- 2. Value of Static Testing
- 3. Differences between Static Testing and Dynamic Testing

Feedback and Review Process

- 1. Benefits of Early and Frequent Stakeholder Feedback
- 2. Review Process Activities
- 3. Roles and Responsibilities in Reviews
- 4. Review Types
- 5. Success Factors for Reviews

4. Test Analysis and Design

Test Techniques Overview

Black-box Test Techniques

- 1. Equivalence Partitioning
- 2. Boundary Value Analysis
- 3. Decision Table Testing
- 4. State Transition Testing

4.3. White-box Test Techniques

- 1. Statement Testing and Statement Coverage
- 2. Branch Testing and Branch Coverage
- 3. The Value of White-box Testing

4.4. Experience-based Test Techniques

- 1. Error Guessing
- 2. Exploratory Testing
- 3. Checklist-based Testing

4.5. Collaboration-based Test Approaches

- 1. Collaborative User Story Writing
- 2. Acceptance Criteria
- 3. Acceptance Test-driven Development (ATDD)

5. Managing the Test Activities

Test Planning

- 1. Purpose and Content of a Test Plan
- 2. Tester's Contribution to Iteration and Release Planning
- 3. Entry Criteria and Exit Criteria
- 4. Estimation Techniques
- 5. Test Case Prioritization
- 6. Test Pyramid
- 7. Testing Quadrants

Risk Management

- 1. Risk Definition and Risk Attributes
- 2. Project Risks and Product Risks
- 3. Product Risk Analysis
- 4. Product Risk Control

Test Monitoring, Test Control and Test Completion

- 1. Metrics used in Testing
- 2. Purpose, Content, and Audience for Test Reports
- 3. Communicating the Status of Testing

Configuration Management

Defect Management

6. Test Tools

6.1. Tool Support for Testing

6.2. Benefits and Risks of Test Automation

7. References