ISTQB Advanced Technical Test Analyst Training

Duration: **3 Day**

BİLGİNÇ IT Academy
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The **training** extends the testing knowledge acquired at Foundation Level and enables professionals to perform advanced **Technical Testing** activities within a **Risk-Based Testing** framework.

Participants learn how to identify, assess, and mitigate technical risks associated with**Performance Testing**, **Security Testing**, **Reliability Testing**, **Maintainability**, and **Portability** while supporting software quality initiatives through advanced testing techniques and automation strategies.

Prerequisites

Participants should:

- Hold the **ISTQB Certified Tester Foundation Level (CTFL)** certification
- Preferably have at least three years of software testing experience

Who Should Attend

- Technical Test Analysts
- Software Testers
- Test Engineers
- QA Engineers
- Test Consultants
- Test Managers
- Software Developers
- Automation Engineers
- Quality Assurance Specialists

What You Will Learn

By the end of this training, you will have gained knowledge and skills in the following areas:

- Identify and classify technical software risks
- Create risk-based technical test plans
- Apply advanced **White Box Testing** techniques
- Participate in technical reviews
- Use **Static Analysis** and **Dynamic Analysis**
- Evaluate and implement **Test Automation** solutions
- Improve software security, reliability, maintainability, and performance

Training Outline

1. The Technical Test Analyst’s Tasks in Risk-Based Testing

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Risk-Based Testing

- Risk Identification
- Risk Assessment
- Risk Prioritisation
- Risk Mitigation
- Technical Test Planning

Technical Risk Areas

- **Performance Risks**
- **Security Risks**
- **Reliability Risks**
- **Maintainability Risks**
- **Portability Risks**

2. Structure-Based Testing

White Box Testing

- Statement Coverage
- Decision Coverage
- Condition Coverage
- Path Coverage

Code Coverage Analysis

- Coverage Metrics
- Critical Code Areas
- Coverage Evaluation

3. Analytical Techniques

Dynamic Analysis

- Memory Analysis
- Resource Utilisation
- Performance Bottleneck Detection

Static Analysis

- Code Quality Metrics
- Complexity Analysis
- Coding Standards Compliance
- Security Vulnerability Detection

Architecture Reviews

- Architecture Assessment
- Technical Design Reviews
- Technical Debt Analysis

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4. Non-Functional Testing

Performance Testing

- Load Testing
- Stress Testing
- Volume Testing
- Scalability Testing

Security Testing

- Vulnerability Assessment
- Authentication Testing
- Authorization Testing
- Security Risk Analysis

Reliability Testing

- Fault Tolerance
- Stability Testing
- Availability Testing

Maintainability Testing

- Code Maintainability
- Technical Debt Evaluation
- Refactoring Analysis

Portability Testing

- Platform Compatibility
- Environment Migration
- Cross-Platform Validation

5. Test Automation

Test Automation

- Automation Strategies
- Automation Tools
- Automation Frameworks
- Cost-Benefit Analysis

6. Technical Reviews and Quality Improvement

Technical Reviews

- Code Reviews
- Architecture Reviews
- Defect Prevention
- Quality Improvement Practices

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Career Benefits

This course develops expertise in:

- **Technical Testing**
- **Non-Functional Testing**
- **Performance Testing**
- **Security Testing**
- **Reliability Testing**
- **White Box Testing**
- **Risk-Based Testing**
- **Test Automation**
- **Software Quality Assurance**

These skills are highly valued by organizations seeking advanced testing professionals capable of addressing complex technical quality risks in modern software systems.