ISTQB Certified Tester Advanced Level - Test Analyst Training

Duration: **3 Day**

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The **ISTQB Advanced Level Test Analyst (CTAL-TA)** certification course provides experienced testing professionals with advanced knowledge and practical skills in **Test Analysis**, **Test Design**, **Risk-Based Testing**, **Functional Testing**, and **Defect Prevention**.

Aligned with the official **ISTQB CTAL-TA v4.0 syllabus**, the course enables participants to perform structured software testing activities throughout the software development lifecycle while improving software quality and reducing defects.

Prerequisites

Candidates must hold the **ISTQB Certified Tester Foundation Level (CTFL)** certification.

The latest **CTFL v4.0** certification is recommended.

Practical software testing experience is also expected.

Who Should Attend

- Test Analysts
- Software Testers
- Test Engineers
- QA Engineers
- Test Consultants
- Test Managers
- User Acceptance Testers
- Software Developers
- Business Analysts
- Project Managers
- Quality Managers

What You Will Learn

By the end of this course, participants will be able to:

- Apply advanced **Test Analysis** and **Test Design Techniques**
- Perform effective **Risk-Based Testing**
- Select appropriate **Black Box Testing** and **Experience-Based Testing** techniques
- Design high-quality test cases, test data, and test environments
- Support **Functional Testing** and selected **Non-Functional Testing** activities
- Apply **Defect Prevention** techniques
- Perform **Root Cause Analysis**
- Improve test effectiveness and efficiency

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Training Outline

1. The Role of the Test Analyst in the Test Process

Test Analyst Responsibilities

- SDLC Testing Activities
- Test Levels
- Test Cases
- Test Oracles
- Test Data Management
- Test Environment Requirements
- Keyword-Driven Testing
- Testware Management

2. Risk-Based Testing

Risk-Based Testing

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

3. Test Analysis and Test Design Techniques

Advanced Test Design Techniques

Data-Based Techniques

- Data Analysis
- Data Combinations
- Test Data Design

Behaviour-Based Techniques

- User Behaviour Analysis
- Workflow Testing

Rule-Based Techniques

- Decision Tables
- Business Rules Testing

Experience-Based Techniques

- Exploratory Testing
- Error Guessing
- Checklist-Based Testing

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4. Testing Quality Characteristics

Functional and Non-Functional Testing

Functional Testing

- Business Rule Validation
- Requirement Verification

Usability Testing

- User Experience Evaluation

Flexibility Testing

- Adaptability Assessment

Compatibility Testing

- Browser Compatibility
- Platform Compatibility
- Integration Compatibility

5. Software Defect Prevention

Defect Prevention

- Defect Prevention Strategies
- Phase Containment
- Reviews
- Static Testing
- Defect Classification

Root Cause Analysis

- Cause Identification
- Process Improvement
- Quality Enhancement

Career Benefits

The **CTAL-TA Certification** validates expertise in:

- **Test Analysis**
- **Test Design**
- **Risk-Based Testing**
- **Black Box Testing**
- **Functional Testing**
- **Non-Functional Testing**
- **Defect Prevention**

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- **Software Quality Assurance**

This certification is highly valued by organizations seeking experienced testing professionals capable of improving software quality and supporting business-critical testing activities.