

ISTQB® Certified Tester Advanced Level **Test Analyst v4.0** (CTAL-TA)

About the Course

The ISTQB Advanced Level (CTAL-TA) qualification is aimed at people who have achieved an advanced point in their careers in software testing. This includes people in roles such as testers, test analysts, test engineers, test consultants, test managers, user acceptance testers and software developers. It is also appropriate for anyone who wants a deeper understanding of software testing, such as project managers, quality managers, software development managers, business analysts, IT directors and management consultants.

▼ Course Outline

► Chapter 1: The Tasks of the Test Analyst in the Test Process

- 1.1 Testing in the Software Development Lifecycle
- 1.2 Involvement in Test Activities
 - 1.2.1 Test Analysis
 - 1.2.2 Test Design
 - 1.2.3 Test Implementation
 - 1.2.4 Test Execution
- 1.3 Tasks Related to Work Products
 - 1.3.1 High-Level Test Cases and Low-Level Test Cases
 - 1.3.2 Quality Criteria for Test Cases
 - 1.3.3 Test Environment Requirements
 - 1.3.4 Determining Test Oracles
 - 1.3.5 Test Data Requirements
 - 1.3.6 Developing Test Scripts Using Keyword-Driven Testing
 - 1.3.7 Tools Applied in Managing the Testware

► Chapter 2: The Tasks of the Test Analyst in Risk-Based Testing

- The Tasks of the Test Analyst in Risk-Based Testing
- 2.1 Risk Analysis
 - 2.2 Risk Control

► Chapter 3: Test Analysis and Test Design

Introduction to Test Analysis and Test Design

- 3.1 Data-Based Test Techniques
 - 3.1.1 Domain Testing
 - 3.1.2 Combinatorial Testing
 - 3.1.3 Random Testing
- 3.2 Behavior-Based Test Techniques
 - 3.2.1 CRUD Testing
 - 3.2.2 State Transition Testing
 - 3.2.3 Scenario-Based Testing
- 3.3 Rule-Based Test Techniques
 - 3.3.1 Decision Table Testing
 - 3.3.2 Metamorphic Testing
- 3.4 Experience-Based Testing
 - 3.4.1 Test Charters Supporting Session-Based Testing
 - 3.4.2 Checklists Supporting Experience-Based Test Techniques
 - 3.4.3 Crowd Testing
- 3.5 Applying the Most Appropriate Test Techniques

- 3.5.1 Selecting Test Techniques to Mitigate Product Risks
- 3.5.2 Benefits and Risks of Automating the Test Design

► Chapter 4: Testing Quality Characteristics

Introduction to Testing Quality Characteristics

- 4.1 Functional Testing
- 4.2 Usability Testing
- 4.3 Flexibility Testing
- 4.4 Compatibility Testing

► Chapter 5: Software Defect Prevention

Introduction to Software Defect Prevention

- 5.1 Defect Prevention Practices
- 5.2 Supporting Phase Containment
 - 5.2.1 Using Models to Detect Defects
 - 5.2.2 Applying Review Techniques
- 5.3 Mitigating the Recurrence of Defects
 - 5.3.1 Analyzing Test Results to Improve Defect Detection
 - 5.3.2 Supporting Root Cause Analysis with Defect Classification

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

- Perform the appropriate testing activities based on the particular software development lifecycle being used
- Determine the proper prioritization of the testing activities based on the information provided by the risk analysis
- Provide the appropriate level of documentation relevant to the testing activities
- Determine the appropriate types of functional testing to be performed
- Select and apply appropriate testing techniques to ensure that tests provide an adequate level of confidence, based on defined coverage criteria
- Effectively participate in formal and informal reviews with stakeholders, applying knowledge of typical mistakes made in the work products
- Design and implement a defect classification scheme
- Apply tools to support an efficient testing process

Pre-Requisites candidates must hold:

ISTQB® Certified Tester Foundation Level (CTFL) v4.0 (preferred) or a previous version and have sufficient practical experience

DURATION

4
Days

MODE

Online
or
F2F

Certification Partner:



Custommedia Sdn. Bhd.

Lot 1-G, Jalan Kenari 13a,
Bandar Puchong Jaya,
47100 Puchong,
Selangor

+603-8082 9680

+6011 5112 4480

academy@custommedia.my

custommediaacademy.my

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