



# ISTQB-BCS Advanced Level Test Analyst Certificate

## Course Introduction

This four day course leads to the ISTQB-BCS Advanced Test Analyst Certificate.

The course focuses on testing topics including testing activities within different lifecycle models, specification-based, defect-based and experience-based test techniques, test documentation, usability testing, reviews, defect classification and tool support. Candidates will be given exercises, practice exams and learning aids for the ISTQB-BCS Advanced Test Analyst certificate.

The accredited material used in the course is used under licence from Grove Consultants. Sopra Steria is accredited as a training provider for the ISTQB-BCS Advanced Test Analyst, Advanced Technical Test Analyst and the Advanced Test Manager Certificates.

We also offer this course in a 'day-at-a-time' format which splits the training of a number of weeks to give greater flexibility. This includes a revision day before candidates sit the exam.

## Course Objectives

To provide an understanding of testing issues beyond the ISTQB Foundation level giving participants the knowledge and skills required to become an Advanced Test Analyst.

## Who Will Benefit?

This 4-day course is most appropriate for Testers, Test Analysts, Test Engineers, Test Consultants, Test Managers, User Acceptance Testers, Software Developers and anyone wishing to gain the ISTQB Advanced Level Test Analyst Certificate.

The Advanced Level certificates are 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.

## Prerequisites

Delegates wishing to take the ISTQB Advanced Test Analyst Certificate must hold the ISTQB/ISEB Foundation Certificate. If you wish to sit the course without taking the exam, there are no prerequisites.

## Skills gained

An Advanced Test Analyst can...

- Perform testing activities appropriate to the software development lifecycle in use.
- Prioritise testing activities based on analysed risks.
- Select and apply appropriate testing techniques to achieve defined coverage criteria.
- Provide an appropriate level of documentation relevant to the testing activities.
- Determine the appropriate types of functional testing to be performed.
- Undertake the usability testing for a given project.
- Effectively participate in formal and informal reviews with stakeholders, applying knowledge of typical mistakes made in work products.
- Design & implement a defect classification scheme.
- Apply tools to support testing.

## Course Content

### Testing Process – Specification Based

Explains the role and contribution of the Test Analyst throughout the test process and how they align with the roles of the Test Manager and Technical Test Analyst. Focusing on the tasks of test analysis and design the course explains appropriate uses for concrete and logical test cases, defining criteria for starting test execution, and measuring test completion status. The impact of different lifecycle models on these tasks is also considered.

### Testing Management

Discusses Test Analyst responsibilities that include a contribution to project metrics, risk-based prioritisation and the scheduling of business domain-based tests. The impact of risk on test case selection, test coverage and test data tasks is also described.

### Test Techniques

Specification-, defect- and experience-based techniques are covered. The specification-based techniques introduced at the Foundation level are developed further. These include equivalence partitioning, boundary value analysis, decision tables, state transition testing, and use case testing. Additional specification-based techniques introduced include classification tree testing, use of orthogonal arrays, pairwise testing, domain analysis, and user stories. Defect-

based techniques, exploratory testing and the use of defect taxonomies are also covered. Participants learn how to select appropriate techniques for a given situation.

### Testing Software Quality Characteristics

The specific software quality characteristics that apply to the Test Analyst are covered in this section. These include the functional areas of accuracy, suitability and interoperability as well as the non-functional areas of usability and accessibility. Describes how to approach testing these quality characteristics.

### Reviews

Here the focus is on using checklists to identify defects in use cases and in requirements specifications from a tester's perspective. Sample checklists are supplied and participants learn how to present problems found in a review meeting.

### Defect Management

Explains how to define and use defect classification values classify defects found. Includes a discussion of capturing, refining and using root cause information for process improvement. Also describes how to perform preliminary root cause analysis.

### Test Tools

Covers tool and automation issues that are relevant to the Test Analyst. This includes business process modelling tools and knowledge of the interactions between the tools typically used by a Test Analyst.

## The Exam

This course will provide the delegate with the necessary knowledge and skills to sit the ISTQB-BCS Advanced Test Analyst Certificate multiple choice exam. This is three hours in length and contains 65 questions

Delegates will be given the opportunity to sit the examination on the morning of the first working day in the week following delivery of the training the course.