

ISEB Practitioner Certificate in Test Analysis

Course Objectives

To provide an understanding of software test analysis that goes significantly beyond the *ISEB Intermediate Certificate*. It provides testers with practical knowledge of different testing techniques and when they are appropriate. Enabling the candidate to evaluate, make decisions of value and justify them.

Exercises and learning games are used to reinforce the topics. Practice exams and exam techniques increase the candidate's ability and confidence for the exam.

This course covers Learning Objectives up to the Knowledge 6 level (evaluation).

Who Will Benefit

This 3-day course is appropriate for test analysts, test team leaders, developers, business analysts, quality assurance, users and anyone wishing to gain the *ISEB Practitioner Certificate in Software Test Analysis* qualification. This course is also for those wishing to pursue BCS Professional qualifications as well as a path to specialisation such as automation, security, test management and consultancy.

Skills Gained

- Understand how context influences the choice of testing type, approach and techniques
- Know how to analyse a test basis document to generate various test items using appropriate techniques, prioritise tasks and justify any decisions made
- Describe how tools can support testing activities
- Write a good incident report and test summary report
- Understand static and dynamic analysis and how coverage is measured during dynamic testing
- Know when to use scripted versus unscripted approaches and how to identify sensible goals for testing
- Understand and apply the techniques listed in BS7925-2, including equivalence partitioning, boundary value analysis, state transition testing, decision table testing, use case testing, classification trees, statement and decision testing.
- Select and justify non-functional test types, including reliability, usability and load testing

Course Content

- **Choices**
The context in which testing is done, influences the test approach and techniques used and the priorities of testing tasks.

The test basis (such as a requirement specification) is analysed to identify test items and techniques to use supporting activities. This include tools, a defect taxonomy and incident data.
- **Techniques – Testing in Action**
Some techniques are more thorough than others; the coverage achieved by some is worth more than others. This section describes this relationship. It also describes an ultimate method for measuring the effectiveness of testing in terms of defects found (DDP).

Testers need to be able to analyse and interpret test results and write a summary report. Testing includes both static and dynamic analysis and both scripted and unscripted approaches. Different goals or objectives for testing also determine the approach to testing.

- **Techniques – Use of Test Techniques and Test Types**
Techniques are what make a tester a test analyst. Techniques are covered to a level of depth to enable the candidate to use them in practical situations to derive test conditions and test cases that will meet the objectives for the testing. The following techniques are covered:
- **Specification-based (black box):**
 - Equivalence partitioning
 - Boundary value analysis
 - State transition testing
 - Decision table testing
 - Use case testing
 - Classification tree testing
- **Structure-based (white box)**
 - Statement testing
 - Decision testing
- **The following non-functional test types are covered:**
 - Reliability testing
 - Usability testing
 - Testing under load

The Exam

This course will provide the delegate with the necessary knowledge and skills to write the *ISEB Practitioner Test Analysis Certificate* exam. The two-hour essay exam consists of answering four out of six questions. Achieving a score of 60% or more is a pass, but if you score 80% or more, you are awarded a distinction.

Course and exam dates can be found on our website: http://www.testdata.co.za/training_schedule_date.html

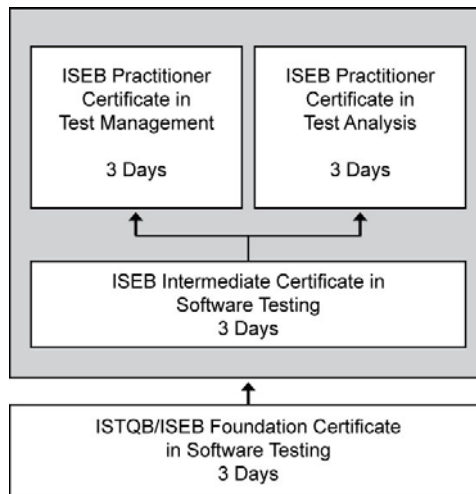
Information about the exams can be found on the British Computer Society (BCS) website: <http://www.bcs.org/server.php?show=nav.9629>

Course Details

- **Prerequisites**
To take the exam, you must hold the *ISEB Intermediate Certificate* and have at least 18 months experience in software testing or have completed an accredited *ISEB Practitioner Certificate Test Analysis Course*.
- **Course presentation and duration**
The course is presented by an experienced software testing practitioner who has been accredited by ISEB. The course duration is three days. It runs from 8:00 to 17:30. This includes a lunch and two tea breaks daily.
- **Training style**
The course is conducted in a classroom style. Candidates use practical tasks to layer theoretical concepts.

- Comprehensive and accredited course materials, certification and assessment**
 Comprehensive course notes are provided. During the course several practical worksheets will be issued. These will assist candidates in their preparation for the final exam. Exams will be written following a days' break to allow candidates to review study material in their own time.
 On completion of this course and passing the externally invigilated, ISEB-set examination, candidates receive the internationally accredited *ISEB Practitioner Certificate in Test Analysis*.
- Accreditation**
 Test and Data Services is fully accredited by the British Computer Society to train this course and listed as an accredited training provider on the BCS website:
<http://www.bcs.org/server.php?show=nav.9628>
- Training Venues**
 Test and Data Services presents courses at several well-established training facilities in Midrand (near Johannesburg and Pretoria), Cape Town and Durban. Training can be arranged at the client's premises depending on adequate facilities and candidate numbers. Training courses can also be provided internationally.

ISEB Training Diagram



Contact

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