



## ISEB Practitioner Test Analysis Certificate

This three day course follows on from the ISEB Intermediate Certificate in Software Testing course and leads to the ISEB Practitioner Test Analysis certification.

This course focuses specifically on test analysis, including different types of testing (functional, reliability, usability and load testing), and a variety of different techniques and approaches. Candidates will be given exercises, practice exams and learning aids to help them attain this qualification

This course can be taken without the exam if the ISEB Practitioner Test Analysis qualification is not required.

# ISEB Practitioner Test Analysis Certificate

## Course Objectives

To provide an understanding of software test analysis that goes beyond the ISEB Intermediate Certificate. It provides testers with practical knowledge of different testing techniques and when they are appropriate.

Exercises and learning games are used to reinforce the topics. Practice exams and exam technique advice 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 testers, test team leaders, developers, business analysts, quality assurance, users and anyone wishing to gain the ISEB Practitioner Certificate in Software Test Analysis qualification.

## Prerequisites

To take the exam, you must hold the ISEB Intermediate Certificate, and have 18 months experience in software testing or have completed an accredited ISEB Practitioner Certificate Test Analysis Course.

## 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 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 a 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 (normally support by developer tools), 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 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 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 sit 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 then you are awarded a Distinction. The exams are held on set dates once a quarter. Information about the exams can be found from our website [www.grove.co.uk](http://www.grove.co.uk) or direct from ISEB.

## Booking & Information

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[www.grove.co.uk](http://www.grove.co.uk)



## Course Structure

The ISEB higher level qualification is divided into three certificates, each with its own exam: the Intermediate Certificate (with a one-hour scenario-based multiple choice exam), Test Management, and Test Analysis (both with a 2-hour essay exam). Candidates may take all three exams to gain the full set of ISEB Practitioner Certificates.

