

Testing – Course Outlines

Introduction

We offer a number of different training courses, which fall into 3 categories; certified, specialised and Masterclasses. The Masterclasses have been devised by Sopra Group's testing thought-leaders.

We also design & deliver bespoke testing training.

Certified - ISEB

The material used in our ISEB courses is used under licence from Grove Consultants and is already accredited. Sopra Group is accredited as a training provider for the Foundation and Intermediate Certificates. We have submitted for accreditation as a provider for the Test Manager and Test Analyst Practitioner certificates - our accreditation is pending.

ISEB/ISTQB Foundation (3.5 days)

The Foundation Certificate is awarded to those who pass a written one hour multiple-choice exam which is set, moderated, marked and invigilated by ISEB.

This course contains:

- Fundamentals of Testing
- Testing throughout the lifecycle
- Static Testing
- Test Design Techniques
- Test Management
- Tool Support for Testing

The ISEB/ISTQB Foundation Exam usually takes place on the morning of the fourth day.

ISEB Intermediate Certificate in Software Testing (3.5 days)

This certificate provides the next level of knowledge and practical expertise, and also covers the key topics which are needed as a prerequisite for either of the practitioner level exams.

ISEB Practitioner Certificate in Test Management (3 days)

This certificate is a high level qualification which examines

knowledge and skills required for the management of Software Testing.

ISEB Practitioner Certificate in Test Analysis (3 days)

This certificate is a high level qualification which examines knowledge and skills required for the technical analysis of Software Testing.

Certified - ISTQB

The material used in all our ISTQB courses is used under licence from Grove Consultants and is already accredited. Sopra Group is accredited as a training provider for the Foundation and Advanced Test Analyst and Test Manager certificates and has submitted for accreditation as a provider for Technical Test Analysis course - our accreditation is pending.

ISTQB Advanced Core Module (2 days)

The ISTQB Advanced level qualification is divided into three streams: Test Analyst, Test Manager and Technical Test Analyst. The concepts that relate to all three streams have been taken out into this 2-day module. There is no exam in this module.

This course contains:

- Basic aspects of Software Testing
- Testing Process
- Risk Based Testing
- Reviews
- Incident Management
- Test Tools and Automation
- People Skills

It must be completed by anyone wanting to attain the ISTQB Advanced Certificate before specialising in their appropriate stream.

ISTQB Advanced Test Analyst Certificate (3.5 days)

This stream of the Advanced certificate aims to provide an understanding of test analysis, design and implementation that goes beyond the ISTQB Foundation level. It provides a portfolio of methods for test design applicable for a variety of contexts. The aim is to help students devise tests that are both effective and efficient, giving best

value for the testing being done in the time that is given.

This course contains:

- Specification-based Techniques including
 - EP / BVA
 - Decision Tables
 - State Transition
 - Classification Trees
 - Pairwise Testing
 - Use Cases
- Defect and experienced based Technique including
 - Error guessing
 - Exploratory testing
 - Attacks
- Test of software characteristics including
 - Usability & Accessibility
 - Interoperability
 - Technical Security
 - Performance
 - Etc.

The ISEB/ISTQB Advanced Test Analyst exam usually takes place on the morning of the fourth day.

ISTQB Advanced Test Manager Test Manager Certificate (3.5 days each)

This stream of the Advanced certificate aims to provide an understanding of software test management that goes beyond the ISTQB Foundation level. It provides test managers with a good level of knowledge that enables analysis of situations in order to present practical solutions.

This course contains:

- Basic aspects of Software Testing (building on core module content)
- Test Management Documentation
- Test Plan Documentation Templates
- Test Estimation
- Scheduling Test Planning
- Business Value of Testing
- Distributed, Outsourced and Insourced Testing
- Failure Mode and Effect Analysis (FMEA)
- Test Management Issues
- Standards and Test Process Improvement
- People skills – Team Composition

The ISEB/ISTQB Advanced Test Management exam usually takes place on the morning of the fourth day.

ISTQB Advanced Technical Test Analyst Certificate (3.5 days)

This stream of the Advanced certificate aims to provide an understanding of technical test analysis, design and implementation that goes beyond the ISTQB Foundation level. It provides a portfolio of methods for test design applicable from a technical perspective in particular the use of structural techniques to test code. or The aim is to help students devise tests that are both effective and efficient, giving best value for the testing being done in the time that is given.

The ISEB/ISTQB Advanced Technical Test Analyst exam usually takes place on the morning of the fourth day.

Specialised

Software Testing Essentials (1 day)

The one-day Software Testing Essentials Course is for those new to software testing and gives an introduction to the field as a whole. Tailored versions for Managers and Developers are also available.

This course contains:

- Importance and Principles of Testing
- Causes of error
- The V model & Levels of Testing
- The Testing Process
- Testing Techniques
- Managing Testing

Web Functionality Testing (2 days)

Developed in conjunction with our partner Jeff Jones this training course seeks to help those making the transition from testing traditional environments to testing rapidly changing and complex Web sites by explaining these new technologies and suggesting test cases and techniques.

This course contains:

- Web Basics
- Code Quality Assurance (Unit Testing)
- Compatibility
- Navigation

- Risk Based Testing
- Client & Server Side Functionality
- Usability and Accessibility
- Post Implementation

Web Performance & Security Testing (1 or 2 days)

Developed in conjunction with our partner Jeff Jones this training course seeks to help developers, testers and test managers already experienced in testing small-scale Web sites understand the technologies needed to make Web sites more scalable, secure, and reliable.

This course contains:

- Performance Testing
- Scalability
- Reliability and Availability
- Site & Application Security
- Security Penetration

Influencing Skills & Negotiating in Software Testing (1 day)

In today's highly competitive IT marketplace, the demands on IT service deliverers, including Software Testers; to make a personal impact which significantly influences customer decisions is business critical. To seal agreement you need to be able to negotiate.

This course contains:

- The role of Influencing and negotiating in communication
- Aspects of Influencing
 - Communication model
 - Listening
 - Building Trust
- Who do you need to influence?
- Influencing in Software Testing
- Influencing Styles & Powers
- Handling resistance
- Negotiation principles and rules
- Tactics in negotiation
- Trading concessions
- Reading List

Influencing Skills in Software Testing (3 days)

In today's highly competitive IT marketplace, the demands on IT service deliverers, including Software Testers; to make a personal impact which significantly influences customer decisions is business critical.

This course contains:

- The role of Influencing and negotiating in communication
- Aspects of Influencing
 - Communication model
 - Listening

- Building Trust
- Who do you need to influence?
- Influencing in Software Testing
- Influencing Styles & Powers
- Handling resistance
- Negotiation principles and rules
- Tactics in negotiation
- Trading concessions
- Reading List
- Role Play exercises and assessments

Masterclasses

Created by our team of highly skilled Consultants to supplement and enhance existing practices in areas detailed below.

Agile (1 day)

Testing in an agile development environment is significantly different from 'traditional' testing. This masterclass explains how it is different and highlights the key challenges testers and test managers will face as well as providing advice on how to ensure your testing meets these challenges.

This course contains:

- Definitions
- Agile method definitions, SCRUM and other techniques
- Agile Projects and the difficulties of pure Agile testing in a non-Agile environment
- The Agile Testing Process
- The Agile Testing Kitbag
- Potential Pitfalls
- Who does what – roles and responsibilities
- Summary

Application Security Testing (0.5 day)

- Security Fundamentals
- Current Threat Environment
- The Application Security Problem
- Live Demo!
- Application Security Best Practice
- Software Assurance

Configuration Management (1 day)

- What is Configuration Management?
- The Development Process
- Configuration Management for QA
- Configuration Management for Testers
- Change & Configuration Management

Exploratory Testing (1 day)

- What is Exploratory Testing?
- Value Benefits of Exploratory Testing
- How is Exploratory Testing delivered
- Examples of previously delivered Exploratory Testing
- Problems / issues you may encounter delivering Exploratory Testing

Reporting & Metrics (1 day)

- What is Reporting & Metrics?
- Value Benefits of Reporting & Metrics
- How is Reporting & Metrics delivered
- Examples of Reporting & Metrics tools
- Problems or issues you may encounter delivering Reporting & Metrics

Requirements & Traceability (1 day)

- Requirements overview
- Why are they so critical to a projects success?
- Requirements Management
- The cost of faults
- Where to test requirements
- The 10 Point check
- Putting it into practice
- Overview of Requirements Traceability
- Types of Traceability
- Traceability Techniques
- Tools
- Summary

Risk-Based Testing (1 day)

- The Basics
- Risk & Risk Management, Risk Based Testing, RBT Benefits
- How to do it ; MoSCoW, Boston Matrix, Risk Based Requirements Analysis (Risk Register)
- Risk scoring
- Some RBT examples
- Practical Exercises
- Risk based reporting
- Watch out for..

RUP/UML (1 day)

- Introduction to Rational Unified Process
- Overview of Use Cases / UML (Unified Modelling Language)
- Creating Test Cases from Use Cases

Test Environment Management (1 day)

Test environments are hugely important to testers, test managers, test automation engineers and ultimately to users. This masterclass outlines the key test environment issues and tries to give a new perspective on them. It will help you to gain new ideas of how they can be managed and controlled to the benefit of the organisation and provide both knowledge and (hopefully) enthusiasm to improve your test environments. The aim is to share experiences and learn from each other about practical ways to achieve this.

Contents include:

- Introduction
- What is a Test Environment and why are they important?
- Test Environments vs. Test Requirements
- Identifying Test Environment Requirements
- Data
- Test Environment Management & Control
- Tools

Estimating (1 day)

- What is test estimation?
- Methods
- Things to consider
- How does estimation link to requirements, traceability & RUP/UML?
- How to put together an estimate with very little information
- An example of an estimation model