

Practical Test Specification

2 Days



Course Overview

This course focuses on the practical aspects of the testing process: the creation of test material for system/user acceptance testing, and recording the results of test execution.

It explains the decomposition of the testing process into key activities so that test analysts can thoroughly exercise the system under test and determine fitness for purpose.

It includes the creation of a functional catalogue, which lists business/system functional and non-functional attributes, and the use of test techniques to compile exit criteria for the prioritisation of test conditions from which test cases and test scripts are compiled.

Delegates will also gain an awareness of how to react to test failures and changes in requirements, in an organised fashion.

Course Objectives

- To provide an overview of the generic test process and the practical activities for the creation of test material;
- to understand the functional decomposition, and analyse the risk of a system under test;
- to identify the non-functional attributes of a system under test
- to utilise techniques to derive and prioritise test conditions;
- to construct efficient test cases and test scripts to exercise test conditions;
- to understand the practical specification of test material in relation to the test strategy and plan;
- to be aware of the structuring of executable test scripts for test scheduling and execution;
- to understand incident management in relation to the test process; and
- to understand and react to the impact of change on the creation of test materials.

Who Should Attend?

The course is intended for those who will be involved at any stage of the creation of test conditions, test cases or test scripts.

Syllabus – Key points

Scope of testing

Identify the scope of testing in terms of graded business functionality and graded non-functional attributes:

- functional and non-functional; and
- grading of risk.

Test techniques to derive test conditions

Techniques (BS 7925-2) suitable for system and user acceptance testing are discussed to determine the test conditions for specific business functional and non-functional attributes:

- exit criteria;
- many-to-many relationships;
- prioritisation of test conditions; and
- business thread and single function.

Test case and test script construction

Discussion is focused on the different ways in which tests may be grouped to test functionality, and the level of detail necessary to ensure the construction of good, repeatable and measurable tests. Sources of test data, the importance of its management, and the content of a test case are discussed including:

- test assumptions;

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- test inputs;
- expected results; and
- sources of standing test data.

The Generic Test Process

The activities for the practical creation of test material within the generic test process:

- relating to the test strategy and plan;
- the scheduling and execution of tests;
- incident management;
- impact of change on the test process; and
- considerations for overall management of the test process.

Exercises

1. Scope of testing:

- identify functional requirements;
- identify non-functional attributes; and
- risk-based grading of requirements.

2. Use techniques (BS 7925-2) to facilitate the decomposition of the requirements into specific test conditions (low-level definition of scope)

3. Collate test conditions into two types of test scripts:

- to exercise a business thread across a number of functional and non-functional areas; and
- to exercise a single function or non-functional attribute

4. Complete test scripts with detailed instructions for test execution.

About tsg

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