

Test Fundamentals - Extended

3 Days



Course Overview

This course provides an introduction to software testing over three days. This course not only gives the student an excellent insight into what software testing involves, but also how they can approach testing applications when back in their working environment. It includes information on their responsibilities for the management of the testing process, and the formal test case design techniques available to them. A significant portion of the allocated time over these three days is spent on practical exercises.

Course Objectives

- To cover the basic principles of testing and testing models, including the fundamental test process;
- to understand incidents and their role within the test process;
- to provide an overview of test tools;
- to enable the attendee to start testing within a project;
- to provide an understanding of the test management function; and
- to provide an introduction to static, review, black box, white box and informal test case design techniques.

Who Should Attend?

This course is intended for users, business analysts, test analysts and developers who want a solid grounding in the test process, test case design requirements and the key test management functions.

Syllabus – Key points

Test principles:

- what testing is and why we do it: the definition of testing;
- the definition of quality;
- testing and risk;
- reasons for testing;
- causes of error and faults; and
- exercises.

Testing throughout the life cycle:

- life cycle models;
- test process;
- types of testing through the SDLC;
- test economics and quality costs;
- why phases of testing are necessary;
- who does testing and when they do it; and
- why these phases are done by different people in your project.

How to test - Test design techniques introduced:

- understanding acceptance criteria:
 - why acceptance criteria are important;
 - how to set them; and
 - exercise.
- Review techniques:
 - reasons for reviews;
 - introduction to review techniques; and
 - exercise.
- Techniques for designing and documenting testing:
 - functional/non-functional test cases;
 - selection of commonly useful techniques introduced (black box and white box from BS 7925-2 and other sources, informal techniques);
 - documenting tests - test conditions, test cases, the test specification and the procedural test script.

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How to test - Test management introduced:

- planning testing:
 - building a test plan;
 - the test document family - IEEE 829;
 - risk and estimation; and
 - quality gates.
- Managing testing:
 - measurement;
 - control;
 - work plans;
 - test execution/checking/completion of testing;
 - test environments;
 - reporting;
 - fault tracking;
 - teams;
 - skill levels;
 - test phases and roles;
 - required support; and
 - tools.

Alternative Courses

FOTO: Fundamentals of Testing - a one-day introduction to testing for technical staff.

UATI: User Acceptance Testing Introduction - a two-day introduction to testing for acceptance test teams.

About tsg

The innovative Testing Consultancy that works with you to solve specific problems to help achieve your corporate objectives and maximize the return on investment you've made in your people, process and tools in three key, linked areas:

Learning & Development

- ISTQB, ISEB, Prince & ITIL certificated training in the classroom;
- ISTQB & ISEB certificated training over the Internet through Learntesting™;
- Tutor-led 'Academies' using real applications and templates that provide practical learning and experience through the entire life cycle of testing;
- Training needs analysis and tailored training programmes to meet your specific requirements.

Consultancy

- Using TSG's acknowledged industry experts and highly-experienced principal consultants;
- Our services support high-level strategic decision-making, demonstrating a record of measurable success;
- Bring success to your Agile testing projects.

Managed Services

- A tried and tested solution to the inherent problems of outsourcing or resourcing that brings success to projects whilst allowing them to still conduct business as usual;
- A compelling, time-based service in which TSG and its clients work cooperatively and share responsibility for testing success;
- Based on an SLA and a set of measures, our managed service is a true partnership that helps you run your BAU programmes whilst building capability into your people, processes and organisation.