

# Non Functional Testing

2 Days



This course concentrates on the most common non-functional testing areas. In traditional testing these areas are often ignored, yet the non-functional attributes of a product are often those that critically affect its success. We will provide an understanding of the breadth of non-functional attributes that should be considered, and an outline of the risks for different stakeholders.

## Course Overview

This tutor-led course provides coverage of the five main non-functional attributes of software, and by the use of discussion and exercises begins to introduce some typical techniques used in these areas for understanding and setting acceptance criteria and designing tests.

## Course Objectives

- To concentrate on the most common non-functional testing areas which critically affect the success of software;
- to provide an understanding of the breadth of non-functional attributes that should be considered and an outline of the risks for different stakeholders;
- to provide a greater understanding of the formal testing of the 5 critical non-functional areas;
- to introduce some non-functional test techniques;
- to raise awareness of the differing skill sets required; and
- to provide a basis of knowledge to enable effective communication on this topic.

## Who Should Attend?

The course is suitable for testers, test team leaders, developers, requirements and design analysts, project managers, IT infrastructure staff and IT customers/users who need an opportunity to discuss the implications of the material in the web-based course in more detail, and to develop a greater understanding of testing the non-functional attributes of software.

## Syllabus – Key points

### Introduction to Non-functional testing:

- the five main areas;
- setting acceptance criteria;
- operational profiles;
- risks; and
- exercises.

### Performance testing:

- what it is and why it is different;
- benefits and risks;
- introduction to main performance areas (e.g. load, stress, volume, soak, scalability capacity, spike, response times, bandwidth, concurrency);
- awareness of performance testing techniques; and
- exercise.

### Supportability testing:

- installability;
- configuration;
- interoperability;
- compatibility;
- portability;
- conversion;
- introduction to the attributes and some techniques; and
- exercise.

### Security testing:

- what it is and why it is different;
- CIA and the A Team;
- introduction to ISO17799 and Information Security Management;
- common vulnerabilities;
- techniques; and
- exercise.

### Usability testing:

- what it is and why it is different;
- static and dynamic usability techniques; and
- exercise;

### Dependability testing:

- reliability;
- recoverability;
- availability;
- maintainability;
- introduction to the attributes and some techniques; and
- exercise.

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## Course deliverables

Each delegate shall receive a full set of course materials as both hard copy and on CD for future reference.

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## 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.