

Risk Based Assurance and Acceptance Testing

2 Days



Course Overview

This Risk Based Assurance & Acceptance Testing course will introduce those at the coal face of testing to the industry best practices for containing and reducing risk.

The course covers background and the basis for risk based assurance concepts and techniques and then puts them into to practice through exercises and practical examples. The key subjects for this training course are:

- A risk based approach to test strategy and planning;
- A pragmatic approach to test planning;
- The challenging of non-functional attributes and assumptions about these;
- Best practice in test strategy and test planning; and
- Communication between testers, stakeholders and the rest of the project.

Course Objectives

By the end of the 2 day course, delegates should be able to:

- Understand risk assessment and how this impacts on processes for a project;
- Apply some risk management techniques;
- Use the results to prioritise the testing;
- Plan the testing needed at any level from component to user acceptance testing and document it in compliance with IEEE std. 829-1998; and
- Monitor and control testing.

Who Should Attend?

Test Analysts, Senior Test Analysts, Team Leaders and Test Managers who are interested in testing within a risk managed framework and set of techniques

Syllabus – Key points

Risk Based Assurance & Acceptance Testing Day 1 - Concepts and techniques

- What is risk? Concepts of risk. Can people assess risk well? Assessing real life risks;
- Risk and IT: risk definition; where risks arise; risk and stakeholders; technical issues; project and product risk; qualitative and quantitative risk; objectives of risk analysis; testing and risk work together; and exercise - goals and risks;
- Risk management: overview of the core risk activities; who is involved and why; risk identification and assessment techniques;
- Relationship to the Risk Management process e.g. as

Risk Based Assurance & Acceptance Testing Day 2 - Techniques details and practice:

- Risk analysis in detail; risk categorisation; risk weighting factors; ISO 9126 – risk analysis for functional and non-functional attributes; ongoing risk analysis;
- Risk mitigation; risk mitigation options; risk and the test strategy; risk and test techniques; choosing test techniques; industry standards (IEC 61508, DO-178, ISO 14598/5); subsumes ordering of test techniques (BS 7925-2);
- Non-functional risks; setting non-functional acceptance criteria;

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used by Project Managers;

- Relationship between risk and testing: product and project risks; quantitative and qualitative risks; risk and the test strategy; quality attributes; selection of test techniques; fault prediction and estimation for testing; techniques to predict faults against risks;
- Relationship between risk and communication; communicating risks; communicating with stakeholders; and
- Exercises on identification, analysis and prioritisation of risks; these exercises are used to help delegates experience the risk assessment process to identify risks, and the process of prioritising identified risks.
- Risks affecting testing: risks from the life cycle; management; resourcing; process and team organisation for testing; and mitigating the risk of poor testing;
- When testing is a risk to the project; quality, value and timescale; pragmatics of testing; and
- Exercises on identification, analysis and prioritisation of risks; these exercises are used to help delegates experience the risk assessment process to identify risks, and the process of prioritising identified risks.

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, Business Analysis & 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.