This course introduces risk management for testers and how risks can be used as the major driving force within testing. It shows how risks can be used to define test objectives. How those same risks can define scale and type of testing to be performed.

As the tests progress the course will show how the current risk status can be reported at all stages of the test process, which can then used to inform the decision making process as the risk of releasing as the project end date approaches.

It also shows how discussions surrounding the balance between Project Risk (completing testing on time) and Product Risk (defects in the live system) can be enlightened by Risk Based Testing.

It focuses on identifying, prioritising risks and developing the right test strategy to help testers provide the input that management needs to make informed product release decisions.

Recommended for
The course is recommended for testers and test managers with responsibility for designing tests.

Course Objectives
- Describe the concepts and principles of risk and its relationship to testing
- Apply a practical approach to risk-based testing
- Plan and manage a practical risk assessment activity using a variety of techniques
- Better manage the human psychological biases in risk analysis
- Develop a test strategy based upon risk analysis
- Apply the principles of risk analysis earlier in the lifecycle so as to improve both development and testing
- Monitor and communicate effectively the risk status on projects and support risk based decisions about release

Introduction to Risk
- What is a risk?
- Project, process, and product risks
- Principles of risk from safety and security fields

Testing and Risk
- How much testing is enough?
- Identifying product risks
- Differing viewpoints and psychological factors
- Using risk to focus and prioritise testing
- Risks and test evidence

Risk Management Process Overview
- Risk Identification, Analysis, Risk response planning & Risk resolution monitoring
- Overview of risk-based testing including risk-based test strategies

Risk Identification Techniques
- Expert interviews
- Independent consultant or domain expert assessment
- Past experience (lessons learned)
- Checklists of common risks (risk catalogues, checklists and templates)
- Risk workshops
- Brainstorming.

Risk Analysis
- Techniques for Assessing impact and likelihood
- Qualitative versus quantitative assessment

Develop the risk-based testing strategy
- Defining objective acceptance criteria
- Defining test static testing
- Using risk to define test objectives and attributes for each test stage
- Estimation/Planning tradeoffs

Risk-based test design and execution
- Testing as a sampling activity
- Use of techniques to address risk
- Traceability between tests and risks
- Prioritisation of test scheduling

Risk-based test monitoring, control and reporting
- What to monitor?
- Adapting the test strategy & plan based on test monitoring results
- Sample reporting techniques and metrics

The Release Decision
- Who should make the release decision?
- What information is required to make the decision?
- Quantifying the testing
- Coverage – Have we done enough testing?
- What are the risks of release?

Contact
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