

How to Test an Application using Business Requirements

Instructor-Led, On-Site Duration 2-3 days

Overview

Your organization is only as good as your information technology. As a consequence, testing business information systems has become a corporate priority, not another assignment for an overworked information technology department. People with sufficient business acumen to decide what is important to the business community need to be involved in defining and testing evolving information technology solutions based on the business needs as expressed in business, stakeholder, solution, and transition requirements.

This course teaches business analysts who are responsible for testing how to plan, structure and prepare static and dynamic end-user acceptance testing efficiently and effectively in the real world. Well-planned and executed acceptance tests are one of the best investments an organization can make to reduce the risk of costly production problems in information technology. Better testing skills and methods can drastically reduce the amount of time you will have to spend in testing activities.

Note: *This instructor-led course can be delivered in a series of virtual sessions via the Internet or live your site. It can also be expanded into a 3-day seminar by applying the presented techniques to your project with your templates under the supervision of the instructor or by use of an extensive case study.*

Target Audience

*Business Systems Analysts

Test Engineers

End-users responsible for acceptance testing

Anyone responsible for planning, preparing, and/or managing the business system software testing process.

Project managers

Quality Analysts

** in an IIBA survey published in October 2008 93% of the 1200 surveyed business analysts said they are involved in the testing process*

Expansions

To meet specific training needs, this class can be combined with the following offers:

[How to Elicit \(Gather\), Write, and Analyze Business Requirements](#)

Developed and presented by:



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**Learning
Objectives**

Upon completion of this seminar, you will . . .

- Choose the minimal set of cases to achieve defined testing goals
- Create audience-focused test scripts to maximize repeatability
- Optimize tests using equivalence classes, boundary values, and probable errors
- Evaluate business requirements for testability
- Manage your test execution process effectively and efficiently
- Categorize defects to reduce test execution time
- Record, track, and evaluate identified errors
- Contrast unit, integration, system, and acceptance testing
- Develop the strategic and scheduling components of a test plan
- Optimize the use of your acceptance testing resources
- Create an acceptance test plan that is synchronized with your strategy
- Assemble the 17 key elements of effective test plans
- Determine when to use walkthroughs, reviews, and inspections
- Select the appropriate type of test coverage to reduce business risks
- Use the 7 major steps of a well-defined testing methodology

1 Testing Your Testing Methods

Introduction to Acceptance Testing

- What is an Integrated Business Solution?
- To Test or Not To Test
- Testing Reality

2 Developing Black-Box Tests

Identifying Test Scenarios

- Categories and Types of Requirements
- Testing Functional Requirements
- Testing System Reliability
- Usability Testing
- Performance Testing
- Test Case Identification Methodology
- Diagrams and Testing
- Visible Tools
- Truth Tables

Creating Test Scripts

- Contents of a Test Script
- Audience-Based Scripting
- Exercise: Test Script Creation

Engineering Test Data

- Test Engineering
- Testing Document Structure
- Test Case Documentation
- Engineering Test Data
- Exercise: Set-up Data Engineering
- Execution Data Engineering
- Exercise: Applied Test Data Engineering

Validating Test Cases

- Test Case Completeness Check
- Test Case Validation
- Exercise: Test Documents

3 Test Execution

Executing Acceptance Testing

- Test Execution Activities
- 7 Potential Pitfalls
- Test Setup Checklist
- Exercise: Prime Setup Criteria
- Test Reset Checklist
- Test Environment Components (TEC)
- Capabilities Maturity Model
- Testing Maturity Model
- Exercise: Putting It All Together

4 Test Reporting

Reporting Test Results

- Evaluating the Results
- Exercise: Test Result Evaluation
- Defect Reporting
- Test Set Grouping Criteria
- Sequencing by Flow of Events
- Sequencing by Data Creation and Consumption
- Exercise: Test Case Grouping

- Test Log Content
- Incident Report Components
- Problem Resolution Components
- Defect Isolation versus Debugging
- Software Error Categories [1]
- Defect Severity Indicator
- Test Summary Report

5 Creating and Validating Test Plans

Dynamic Testing Methods

- Dynamic Testing
- Testing Phases
- Exercise: Testing Testing Phases
- White Box Testing Defined
- Black Box Testing Defined

Test Planning Techniques

- Test Planning Activities
- Criteria for a Testing Objective
- Administrative Components of a Test Plan
- Executive Components of a Test Plan
- Scheduling Components of a Test Plan
- Roles and Responsibilities
- Planning Required Resources

6 Selecting the Right Testing Strategy

Static Testing Methods

- Static Testing
- Exercise: Static Coverage
- Rules of Walkthroughs and Inspections
- Roles in Walkthroughs and Inspections
- Static Validation Methods
- Implementing Static Testing
- Exercise: Making It Happen

Test Strategy Development

- Of People and Methods
- Static versus Dynamic Testing
- How Can You Manage Risk?
- Dimensions of Risk
- Technology Risks Quantified
- Business/Environmental Risks
- Exercise: Selecting Test Types
- Dynamic Coverage Levels
- Automated Tools Types
- Implementing Test Automation
- Critical Test Planning Assumptions
- Test Plan Validation
- Organizing a Test Plan

7 Applying a Testing Methodology

Software Testing Methodology

- Exercise: Other Testing Terminology
- A "Real" Testing Methodology
- Exercise: Testing Activities

