

Testing Techniques for Tracing and Validating Requirements

Don't underestimate the importance of testing! To ensure project success, planning and executing the testing process must begin as soon as the vision and scope for the solution takes shape. As the requirements for the solution are elicited, the business analyst and the test team develop and refine a master test plan. This plan incorporates test strategies to identify any defects in the requirements, solution, or corresponding documentation.

In this interactive course, you'll work to develop a master test plan under the guidance of an experienced instructor. You will also perform exercises designed to help you establish a risk-based and comprehensive master test strategy for a testing effort. These activities help the business analyst ensure that all requirements trace back to the business need.

By attending this course, you'll develop the competencies required to create test cases and scenarios and to ensure proper test coverage according to the risk level. You will also learn about the different levels and types of testing commonly used in solution development today.

Course Topics

1. **Introduction to Testing**
 - a. Recognizing the importance of testing
 - b. Recognizing the BA role in the testing process
 - c. Differentiating between validation and verification
 - d. Validating the business requirements document (BRD) and models
 - e. Verifying the solution
2. **The Testing Process**
 - a. Identifying the IT strategy
 - b. Identifying the testing life cycle
 - c. Aligning the solution development life cycle (SDLC) and the testing life cycle
 - d. Recognizing the importance of test methodologies
 - e. Employing traceability and defect analysis
3. **Levels and Types of Testing**
 - a. Using the V-model of testing
 - b. Planning the different levels of testing
 - c. Planning the different types of testing
4. **The Master Test Strategy**
 - a. Defining the master test strategy
 - b. Identifying test goals
 - c. Defining the test strategies for each level of testing
 - d. Identifying the likelihood and impact of defects when developing the master test strategy
 - e. Documenting the master test strategy
5. **Planning Testing**
 - a. Identifying the roles for developing the master test plan
 - b. Documenting the components of the master test plan
 - c. Compiling the master test plan
 - d. Planning for changes in requirements, risk and quality
6. **Testing from the BA Perspective**
 - a. Testing and assessing that business and user requirements are met
 - b. Performing user testing and acceptance testing
 - c. Conducting a satisfaction assessment
 - d. Performing usability testing during unit, integration, system and user testing
 - e. Conducting a pilot implementation test
 - f. Managing and prioritizing risk and developing risk response strategies
7. **Test Case Design Techniques**
 - a. Developing test scenarios and test cases
 - b. Converting use case scenarios to test scenarios
 - c. Performing black box and glass box testing
 - d. Ensuring test coverage is risk-driven
 - e. Using test tools
8. **Executing the Plan**
 - a. Executing and updating the master test plan
 - b. Managing changes to test strategies and business requirements
 - c. Reviewing the acceptance test

Learn how to:

- Recognize the role of the business analyst (BA) in the testing process
- Validate the business requirements document (BRD) and analysis models
- Verify that the solution conforms to the requirements
- Communicate the importance of a testing methodology
- Determine what to test and trace those requirements throughout the solution development life cycle (SDLC)
- Develop and execute a test plan
- Understand various testing techniques

 For pre- and post-course assessments, visit www.esi-intl.com/MyESI.

BABOK® Guide knowledge areas:

Business Analysis Planning and Monitoring
Elicitation
Requirements Analysis
Requirements Management and Communication
Solution Assessment and Validation

PMBOK® Guide knowledge areas:

Project Integration Management
Project Scope Management
Project Quality Management
Project Communications Management

ACE CREDIT recommendation:

Undergraduate: 2 credit hours

PDUs: 21.0* **CEU**s: 2.1* **CDU**s: 21*

*Credits may vary by delivery method.

This course has been updated to reflect the *BABOK® Guide*—Version 2.0.

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Reminder: Before taking this course, you should have acquired the background as taught in *How to Gather and Document User Requirements* and *Use Case Modeling*.