



## Software Testing Course

### Section 1: Manual Testing

#### ➤ Chapter 1: Fundamentals of Testing

- Why is testing necessary?
- What is testing?
- Economics of Testing
- Black Box Testing
- White Box Testing
- Software Testing Principles
- Fundamental Test Process

#### ➤ Software Testing Methodology

- Smoke Testing/ Sanity Testing
- Functional Testing
  - a. Integration Testing
  - b. Functional/System Testing
  - c. ReTesting
  - d. Regression Testing
  - e. User Acceptance Testing
    - i. Alpha Testing
    - ii. Beta Testing
  - f. Validation Testing
- Non Functional Testing
  - a. Recovery Testing
  - b. Browser Compatibility Testing
  - c. Cross Browser Testing
  - d. Multiple Browser Testing
  - e. Performance Testing

- i. Load Testing
- ii. Stress Testing
- iii. Volume Testing

- Security Testing
- Mobile Testing
- Adhoc and Exploratory testing
- Web Application Testing
- Accessibility Testing

#### ➤ Chapter 2: Testing throughout the software life cycle

- Software Development life cycle models
- V – Model
- Iterative Life Cycles
- Test Levels
- Component Testing
- Integration Testing
- System Testing
- Acceptance Testing
- Maintenance testing

#### ➤ Chapter 3: Static Techniques

- Reviews and the test process
- Review Process
- Inspections and Walkthroughs



- Code Inspection
- **Chapter 4: Test Design Techniques**
  - Identifying test conditions and designing test cases
  - Categories of test design techniques
  - Specification-based or black-box techniques
  - Boundary Value Analysis
  - Decision Table Testing
  - Equivalence Partitioning
  - State Transition Testing
  - Use Case Testing
  - Structure-based or white-box techniques
  - Code Coverage
  - Decision Coverage
  - Statement Coverage
  - Structural Testing
  - Experience-based techniques
  - Error Guessing
  - Exploratory Testing
  - Choosing a test technique

➤ **Chapter 5: Test Management**

- Test Organization
- Test Plans, Estimates, and strategies
- Test progress monitoring and control
- Configuration Management
- Risk and Testing
- Incident Management

➤ **Chapter 6: Other Testing Types**

- Function Testing
- Volume Testing
- Stress Testing
- Usability Testing
- Security Testing
- Performance Testing
- Configuration Testing
- Reliability Testing
- Recovery Testing

➤ **Chapter 7: Introducing Quality Center**

- The Quality Center Testing Process
- Starting Quality Center
- The Quality Center Window



➤ **Chapter 8: Specifying Releases and Cycles**

- Defining Releases and Cycles
- Viewing Releases and Cycles

➤ **Chapter 9: Specifying Requirements**

- Defining Requirements
- Viewing Requirements
- Modifying Requirements
- Converting Requirements

➤ **Chapter 10: Planning Tests**

- Developing a Test Plan Tree
- Designing Test Steps
- Copying Test Steps
- Calling Tests with Parameters
- Creating and Viewing Requirements Coverage

➤ **Chapter 11: Running Tests**

- Defining Test Sets
- Adding Tests to a Test Set
- Scheduling Test Runs
- Running Tests Manually
- Viewing and Analyzing Test Results

➤ **Chapter 12: Adding and Tracking**

**Defects**

- How to Track Defects
- Adding New Defects
- Matching Defects
- Updating Defects
- Linking Defects to Tests
- Creating Favorite Views

➤ **DEFECT TRACKING TOOLS**

- BUGZILLA
- JIRA

➤ **Test management tool**

- QC

➤ **Performance Testing Tool**

- J-METER



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