



# Testing content for 25 days

## Prerequisites

Basic knowledge of:

- Windows applications and Web applications
- Software Engineering concepts
- Software development Life Cycle

Day 1.

- Fundamentals of Testing
- Test Challenges and suggestions
- Verification & Validation; V Model
- Agile Methodology
- SDLC - Agile Methodologies and V-Model comparison

Day 2

- Levels of Testing
- STLC – Life Cycle of Testing
- Requirement Analysis / Elicitation
- Build process, creation of build and test team collaboration

Day 3

- Type of Testing overview (Why, When, How)
  - Test Automation and Continuous integration
  - Performance Testing
  - Security Testing
  - Usability Testing
  - Multi-browser Testing
  - Compliance Testing
- Web Application Testing
- SOA Testing



- Digital World overview
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- Test Plan Types, Master Test and System Test plan

#### Day 4

- Initiation - Project scenario, Onsite - offshore model, project structure
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- Client business, product / features, Analysis of semi finished BRD
- Integration Testing understanding and hands on

#### Day 5

- Understanding requirements
- Conference calls
- Draft BRD preparation
- Software Metrics , Review the completed concepts and hands on

#### Day 6

- Test requirements - functional & non-functional
- Traceability matrix, Requirement change management
- Introduction to SVN; Exit & Sign off
- Non - Functional requirement section and scenarios

#### Day 7

- ETVX of Test Strategy & Test planning,
- Black Box Test Design techniques
- Finalize an already existing test plan
- Hands on Equivalence Partitioning, BVA, Pairwise (combinatorial) and Error guessing techniques

#### Day 8



- Validation of test plan through reviews
- ETVX of test creation
- Understanding validation through test case reviews
- Validation and Verification processes, implementation

#### Day 9

- Clarification from SME over phone - Conferenec call
- Create test cases
- Create test cases
- Test cases review process and techniques of review, best review practices

#### Day 10

- Present test cases
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- Incorporate comments
- Curiosity tracker + Dashboard +  
Introduce an event

#### Day 11

- Update Traceability Matrix
- Update Traceability Matrix
- Sign off - using appropriate channels of communication
- Traceability Matrix template and hands on working on appln

#### Day 12

- Read a few sample test cases
- Different scenarios - Hands on
- ETVX of test execution, Environment set up for testing
- Designing test cases on web application techniques



and hands on

### Day 13

- Test execution considerations, Test execution in multiple cycles
- Issues in Test execution, GUI testing guidelines
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- Levels of testing - unit, system, regression, user acceptance
- Test execution process and measurement of the processes

### Day 14

- Clarification from Client  
Defect management - Life cycle
- Logging defects, execute log update  
Using Bugzilla tool, reporting using Bugzilla
- Test management overview - Tools, QC features, Test Metrics
- Quality Center (ALM) Implementation from Requirement to Defect management process

### Day 15

- Report to the Client using power point
- Introduce unplanned changes
- Release management, Understand the Support world
- Process of Test plan document updation as client requirement changes

### Day 16

- New requirement - moving some features to the web
- Web testing process & techniques
- Web testing process & techniques
- web application working process and roles of Web Server, Application server



and DB server

#### Day 17

- Why automate? Scenario based - client wants to cut down the team size without reducing the work volume
- Internationalization & Localization
- Web browser error message
- BrowserShots tool implementation in testing cross browser and advantages

#### Day 18

- Why automate? Scenario based - client wants to cut down the team size without reducing the work volume
- Why automate? Scenario based - client wants to cut down the team size without reducing the work volume
- Document requirements
- Share plan
- Test Automation process, advantages, disadvantages, selection process

#### Day 19

- Regression Testing
- Test Automation, Techniques for Test Automation
- Record & play back  
Scripted automated tests
- Why do we need to go for Automation, drawbacks of regression

#### Day 20

- Open source automation tool importance and scope
- Selenium tool as suite and it's components
- Selenium IDE installation and working with it
- Selenium WebDriver implementation and working with it, designing scenarios



#### Day 21

- Overview of automation framework
- Tools used for test automation
- QTP Basic - Synchronization, Data table, Views, Actions, Check expressions
- QTP Step generator implementation in designing own test cases

#### Day 22

- Refresher on PF & DB
- Using VB scripts - Constants, Errors, Functions, Keywords, Miscellaneous Statements
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- VB inbuilt functions and string functions

#### Day 23

- Running QTP scripts for the scenario at hand
- Documenting results, Reporting - Communication with Client communication
- Importance of ROI due to automation
- Batch runner and QTP object model advantages and implementation

#### Day 24

- Client complains on performance issues
- Reviewing & understanding the importance of Non-functional requirements
- Revision - Manual & automation Testing, STLC, Types of test
- Industry Domains

#### Day 25

- Revision - Test management tool - QC



Defect management & execution  
management

- Automation - able to run automated script

Automation tool - QTP

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- Framework guidelines and importance in testing

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