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# SOFTWARE QUALITY TESTING

(includes Manual Testing, Win-runner, Load-runner, Test Director, QTP, Web Testing, Silk Test & Live Project )

**DURATION : 2 MONTHS**

## TRAINING CONTENTS

### MODULE-1 (10 HRS.) - MANUAL TESTING

1. Basics of S/W testing.
  - a) What is testing?
  - b) Needed of Testing.
  - c) Quality Assurance
  - d) Quality Control
2. Testing introduction & terminology.
  - a) Objectives of Testing
  - b) Models of SDLC
  - c) Understanding SDLC
3. Verification and validation
4. Testing Strategies
  - a) White box Testing
  - b) Black box Testing
  - c) Gray box Testing
5. Levels of Testing
  - a) Unit testing
  - b) Integration testing
  - c) System testing
  - d) Acceptance testing
  - e) Alpha testing
  - f) Beta testing
6. Black box methods
  - a) equivalence partitioning
  - b) boundary value analysis
  - c) error guessing
7. Diff. 7. Type of Testing
  - a) Usability testing
  - b) Functionality testing
  - c) Performance testing
  - d) load testing
  - e) Stress testing
  - f) Volume testing
  - g) Compatibility testing
  - h) Configuration testing
  - i) Insatiability testing

- j) Security testing
- k) Recovery testing
- 8. Test planning
- 9. Writing test cases
- 10. Defect handling and Reporting
  - a) what is defect?
  - b) defect life cycle
  - c) defect reporting

**MODULE-2 (30 HRS.) - Automated testing tools using winrunner-7.0 version**

- 1. Introduction
  - a) introduction to win runner-7.0
  - b) manual testing v/s Automated testing
  - c) capture/playback user action
- 2. Recording Test modes
  - a) context sensitive mode
  - b) analog mode
- 3. Synchronizing test
  - a) identifying a synchronization problem
  - b) b)synchronizing the test
- 4. GUI checkpoints
  - a) loading and unloading a GUI map file
  - b) GUI map file modes
    - Global GUI map file
    - GUI map file per test
  - c) Adding GUI checkpoints
  - d) using graphical user interface SPY
- 5. Bitmap checkpoints
  - a) adding bitmap checkpoints
  - b) Running test on new version
- 6. Programming test with TSL
  - a) Recording a basic test script
  - b) Using the function generator
  - c) Adding logic to the test script.
  - d) Creating user defined function
- 7. Reading Test
  - a) Reading test from application
  - b) b)Verifying the test
- 8. Creating data driven test
  - a) converting test to data driven test
  - b) adding data to the data table
- 9. Creating batch test
  - a) programming a batch test
  - b) exception handling
  - c) TSL
  - d) Pop-up
  - e) Object type
- 10. Database connectivity
  - a) connecting to the database

b) firing SQL Queries
<b>MODULE-3 (10 HRS.) - INTRODUCTION TO TEST DIRECTOR</b>
1.Test director basics 2.Requirement Specification 3.Test planning 4.Test execution 5.Defect Tracking 6.Test director Analysis
<b>MODULE-4 (10 HRS.) - LOAD RUNNER</b>
1.Load runner overview 2.Vuser Generator 3.Controler 4.Agent 5.Type of Vusers 6.Runing LR script
<b>MODULE 5 (6 HRS.) – QTP &amp; SILK TEST</b>
Architecture of QTP
Testing application using QTP Recording & Running
Synchronization of Test Cases Using Check points
Data Driven Testing
Recovery Scenario Manager
<b>MODULE 6 (6 HRS.) – SILK TEST</b>
Introduction to Silk Test
Components of Silk Test
Testing Application (windows and web)
Methodologies in Silk Test
<b>MODULE 7 (4 HRS.) – WEB TESTING</b>
Introduction to Web Testing
Components of Web Testing
Architecture of Web Testing
Test Plan
<b>MODULE-8 – LIVE PROJECT</b>
Understanding Architecture of Project
Preparation of Test Plan Writing Test Cases in TD
Summary Graph Preparation
Report Generation

**Program Duration** : 2 Months (80 hrs.)

**Program Fee** : Rs.14000/-

Weekdays or Weekends option available.

Program duration can be extended or reduced depending upon the course coverage.