



TECHNOLOGIES



Software Testing Online Training

Manual, QTP, Selenium

Duration: 35+ (hours)

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+91 988 502 2027



info@svrtechnologies.com



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- > Real-time Scenarios
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- > Real-time Working Faculty



LECTURES



HOURS



Practice Training

Life Time Free Library Access * Doubts Clarification

Software Testing Course Content

Manual Concepts and QC

Topic 01: Concepts

- Software Testing and its Importance
- Principles of Testing
- System Development Life Cycle (SDLC) and System Testing Life Cycle (STLC)
- Difference between Software Testing and Quality Assurance

Topic 02: Types of Testing

- Unit Testing
- Integration Testing
- System - Acceptance Testing
- Sanity - Smoke Testing
- Maintenance - Regression Testing
- Non - Functional Testing

Topic 04: Test Case Development

- Steps of Test Case Development
- Test Scenario
- Test Case Specifications
- Test Basis
- Traceability Matrix

Topic 05: Test Management and Control

- Test Estimation
- Test Plan

Topic 06: Defects

- Defect Life Cycle

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Quality Center

Topic 01: Quality center: Introduction

1. Purpose of Quality center
2. Phases of Quality center
3. Quality center architecture
4. Quality Center Modules

Topic 02: Quality center: Administration

5. Creation of domain
6. Creation of project
7. Creation of users
8. Assigning users to project

Topic 03: Quality center: Modules

9. Requirement module:
 - a. creating requirements
10. Test plan module:
 - a. creating test cases
11. Test lab module:
 - a. creating test sets and
 - b. test execution
12. Defects module:
 - a. defect reporting
 - b. tracking
13. Linking requirements, test cases & defects



Software Testing Course Content

Topic 04: Quality center: features

- a. Views
- b. Edit
- c. Analysis :Reports & Graphs

Topic 05: Quality center: Integration with QTP

14. Integration with QTP
 15. Running QTP scripts from QC
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QTP syllabus

Topic 01: INTRODUCTION TO AUTOMATION TESTING

1. Understanding what is Automation Testing and Need of Automation
2. Introducing different areas of automation
3. Difference between manual testing and Automation testing
4. Prerequisites for QTP
5. Introduction to QTP tool and discussion on various version of QTP

Topic 02 : TESTING PROCESS OF QTP

6. Understanding the Test Process of QTP
7. Discussion of menu items
8. Discussion on the various components of QTP
 - a. window like test pane



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Software Testing Course Content

- b. Test details pane
- c. Active screen
- d. Data table
- e. Information and missing
- f. Resources window
- g. Result window
9. Discussion on the keyword view and Expert view

10. IMPLEMENTING GUI AND BITMAP REGRESSION TEST
11. Understanding the Add-in manager
12. Working with Automation Record and Run setting
13. Working with File settings
14. Working with Tools options
15. Understanding the basic structure of QTP script on different technologies like(VB,Net, Java/J2EE, Web and Standard windows)
16. CREATING TEST SCENARIOS/COMPONENTS
17. Creating a basic script
18. Recording and script generation
19. Understanding Test Object, Run Object, Pre Learning and Auto Learning
20. Understanding how QTP identifies the objects(Mandatory, Assistive properties & Ordinal Identifier)



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Topic 03: PREDEFINED FUNCTIONS IN VB SCRIPT

21. String Functions

- a. Instr
- b. Replace
- c. Right
- d. Left
- e. Trim

22. Date Time Functions

- a. Date
- b. Time
- c. Day
- d. Month
- e. Week

23. Control Statements

- a. If else and nested if
- b. For
- c. While
- d. Do while
- e. Select

Topic 04: Debugging

- 24. Implementing break point mode
- 25. Debugger window in run time
- 26. Adding variables to debugger window
- 27. V and v approach in Debugger mode



Software Testing Course Content

Topic 05: CHECKPOINTS AND OUTPUT VALUES

28. Understanding the need of checkpoints in Automation
29. Working on various checkpoints available in QTP
30. Understanding the need of output values in Automation
31. Working on various output values available in QTP
32. Understanding the Environment Variables/Global Variables
33. Working on both inbuilt and User defined Variables

Topic 06: ACTIONS IN QTP

34. Introduction to Actions in QTP, advantages of Actions ,Dis –Advantages of action
 - a. Creating New actions
 - b. Split actions
 - c. Working on reusability of Actions with call to existing and call to copy options

Topic 07: FUNCTIONS, PROCEDURES AND CLASSES (LIBRARY FILES)

35. Understanding the need of reusability while Automation Testing
 - a. Creating Local and Global functions in QTP
 - b. Working with Library Files of QTP
 - c. Creating user defined classes, methods and objects in QTP
 - d. Understanding how a function returns the value in QTP
 - e. Associating QLF with Test



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Topic 08: OBJECT REPOSITORY

36. Working with Object Repository(Shared and Per- Action)
37. Working with Object Repository Manager
38. Associating Objects Repositories to Actions of QTP
39. Working with Object SPY
40. Discussion of various control in AUT and their mandatory properties
41. Discussion of get to set to properties

Topic 09: Working with Regular expressions

42. Scope for regularization
43. Properties for regularization
44. Sample or regularization expressions

Topic 10: Introduction to parameterization

45. Creating a Parameterized script(Data Driven Test)
 46. Working on different methods of Data Table object
 47. Working on different way of parameterizing an object in QTP
53. EXCEL OBJECT METHODS WITH QTP
- a. Create
 - b. Read
 - c. Write
 - d. Save
 - e. Quit



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Topic 11: Real time features

55. Master script
56. Framework and design parameters
57. Business flow diagrams and Functional flow diagrams(free Software)
58. Test data generation(Test data patterns generations)
59. Positive Test data
60. Conversion of manual test cases sheet to automation

Topic 12: ADVANCED OPTIONS

61. Descriptive programming & Description object,Static& dynamic desc programming
62. Advantage ,Dis advantages of DP , Performance of descriptive programming
63. Exception Handling/Recovery scenario Manager
64. Smart Identifications, Configuration of object Identification
65. Database connection using ADODB objects

Topic 13: Project Work

66. Order of preferences while developing Automation Project
 67. OR and Scripts developments with Dry runs
 - 68 Test Execution configuration sheets
 69. Test data capturing and traversing Data Driven FW
 70. Automation architecture
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Main Topic: Selenium syllabus

Installation of Selenium IDE

Installation of Webdriver

Configuring TestNG and Eclipse.

Basic set up test frameworks for JAVA

MAVEN + Jenkins + Selenium integration

Selenium syllabus

Topic 01: Selenium IDE

- Core Java Concepts
- Selenium WebDriver
- Page object model in selenium
- TestNG framework
- Maven
- Jenkins
- Sample Project which reflects the real time project.

Topic 02: Selenium IDE:

- Selenium IDE installation
- Identifying the elements
- Record and playback features.
- Properties of Selenium IDE
- Assert and Verify commands in selenium IDE
- Establishing checkpoints in test cases using selenium IDE



Software Testing Course Content

Topic 03: Java Concepts:

- Introduction to JAVA
- OOPs concepts
- Conditional statements
- Loops
- Switch statement

Topic 04: Break and continue statements

- Creating classes and Objects
- Data Types
- Operators in java
- Method overloading
- Constructors
- Constructor overloading
- Inheritance
 - a. Single inheritance
 - b. Multiple inheritance
 - c. Multilevel inheritance
- Method overriding
- Interfaces
- Reading Excel and Writing into Excel files using Java

Topic 05: Selenium WebDriver

- WebDriver environment setup
- First automation program
- Interacting with Chrome, Firefox and IE browsers using WebDriver
- Synchronization in selenium
- Handling Input fields, buttons, dropdowns.
- Handling Check boxes, Radio buttons and Alerts.
- Retrieving the data from the tables.
- Retrieving the data from the drop downs.
- Mouse over the elements and click on buttons
- Handling Multiple windows and Pop-ups
- Handling the Non-browser windows using Autolt tool.
- Data Driven programming
- Taking the screenshots of failed test cases.



Software Testing Course Content

- Reading the Data from external files and using in test cases
- Writing the test results to test cases.

Topic 06: TestNG (Test frame work)

- a. TestNg installation
- b. Creating test cases in testng
- c. Creating test suites in testng
- d. Running the test suite using testng
- e. HTML test reports generation
- f. Executing the test cases on multiple browsers

Topic 07: MAVEN

- a. Maven installation
- b. Configuring the maven with selenium project
- c. Running the test cases using the maven

Topic 08: JENKINS

- a. Installing the Jenkins
- b. Configuring the Jenkins with the selenium project
- c. Building the project using the jenkins
- d. Running the test cases using the jenkins
- e. Generating the reports

Topic 09: SELENIUM GRID

- Configuration of selenium GRID
 - Running parallel test cases using GRID
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Load Runner Course Content

Topic 01: Web Application

- Static Content, Dynamic Content, Web Hosting
- Features of Browsers
- Types of requests (GET vs POST)
- Query String, From Data
- Networking modules (OSI Module, TCP/ IP)
- 2- Tier, 3- tier, n- tie architecture
- Types of Operating Systems (Widows, Linux, HP UX, IBM AIX, MAC)
- Web/ APP/ DB Servers and their purpose

Topic 02: Introduction to Performance Testing

- What is Performance Testing Benefits of Performance Testing
- Performance Testing phases / Life Cycle
- Types of Performance Testing (Load, Stress, Volume, Endurance, Baseline, Benchmark etc)
- Introduction about various Performances Testing tools and scripting language info
- Identifying the business scenarios for Performance Testing
- Think time, rendezvous point, IP Spoofing, Denial of Services Attack
- Workload Characterization

Topic 03: Introduction to Load Runner

- Introduction about the LoadRunner with various versions
- Components of LoadRunner and purpose of each component
- Load Generators, Calculating the # of LGs for a load test

Topic 04: Virtual User generator

- A Small introduction about the C language (Variable, functions, loops)
- Recording a Script
- Recording Log, Generating Log, Replay Log and Correlation results log



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- Regenerate Script, recording options
- Best Practice for recording a script
- Run time settings
- Correlation
- Parameterization
- Page Validations
- Transaction Timers
- Think times
- Randomizing the script
- Frequency used C functions
- Debug a script
- LR Variables Vs C Variables custom Requests
- Tips for advances scripting

Topic 05: Controller

- Manual Scenario Vs Goal oriented scenario
- Schedule by group Vs Schedule by Scenario
- Adding Load Generators and verifying the connectivity (Performance test environment setup)
- Run Time settings
- Executing the tests
- Configuring the Rendezvous, IP Spoofing etc
- Monitoring servers through controller
- Windows resources, UNIX resources, other servers
- Auto collection of results, issues with auto collection, sampling intervals
- Configuring Diagnostics

Topic 06: Analysis

- Adding graphs
- Merging graphs
- Web Page Diagnostics
- Advanced Filters/ Drill down
- Raw data/ Graph data
- How to start Analysis (Analysis approach using Client side and server side measurement)



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- Correlate the graphs/results and analyzing the results (Response Time vs HPS Vs throughput Vs TPS)
- Most commonly seen issues / errors and possible reasons

Topic 07: Next Steps

- Understanding the server configuration files
- Understanding the relationship among various settings
- Monitoring the servers without LoadRunner
- JVM architecture and GC methods
- Some important tips

SOAPUI

Topic 01: Introduction to Webservices testing

Topic 02: Introduction to SOAPUI

- What is SOAP UI?
- Why use SOAPUI?
- SOAP UI Vs Selenium:
- SOAP UI Vs SOAP UI PRO
- SOAP vs REST

Topic 03: SOAP UI Installation and Configuration: Complete Guide

Topic 04: SoapUI Tutorial: Create a Project, Test Suite, TestCase

- Learn the SOAP Message FORMAT
- Create a Project
- Creating Test Suite



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- Creating Test Case
- Test Step Insert
- Understanding the Soap Response & Log Panels
- Sending Request Manually & Reading Response

Topic 05: Assertions in SoapUI: Complete Tutorial

- Contains Assertion
- Not contains Assertion
- X Path Match Assertion.
- X Query Match Assertion
- Scripting Assertion

Topic 06: Working with a project on Soap UI

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