



# Software QA Training

Get Trained & Get Placed.

**Format:** Instructor Lead

**GOAL:** The goal is to provide top quality training on QA technologies. We help you to get a job.

**Why USnets:**

All our trainers are certified on popular QA Automation tools currently available in the market. Also they have been currently working on the QA technologies in different Financial, Banking, Pharmaceutical and other Fortune 500 companies.

**Training benefits:**

- Mercury Certified Professional
- Prepare on latest QA Tools
- Support in Resume preparation
- Support in Interview preparation
- Help during job search
- Help on the job
- Access to training Lab
- Weekdays & Weekend batches
- Competitive rates
- H1-B/TN/GC Sponsors

**Come and visit our latest QA Technology Training Lab**

*(No obligation for training)*

<b>Course Title</b>	<b>SQAT: Software QA Training</b>
<b>PART - I</b>	Manual Testing
<b>PART - II</b>	Test Automation and Test Automation Tools
	Test Automation Concept Mercury WinRunner Mercury LoadRunner Mercury TestDirector IBM Rational ClearQuest
<b>PART - III</b>	Unix and Oracle

## PART – I: Manual Testing

<b>1.0</b>	<b>Overview</b>	
	General Testing Concepts Client/Server and Web Application SDLC(Software Development Life Cycle)	FRS(Functional Requirement Specification) SDS(System Design Specification)
<b>2.0</b>	<b>Testing Strategy</b>	
	Test Plan Test Case Test Summary Report	STLC(Software Test Life Cycle) V – Model Traceability Matrix
<b>3.0</b>	<b>Testing Techniques</b>	
	Black Box Testing White Box Testing Path Testing	
<b>4.0</b>	<b>Testing Types</b>	
	Unit Testing Integration Testing System Testing Regression Testing	Functionality Testing Load / Performance Testing Stress Testing Compatibility Testing
		UAT Smoke Testing Sanity Checking/Testing Backend Testing
<b>5.0</b>	<b>Bug or Defect Reporting Process</b>	
	Defect Lifecycle Defect Tracking Defect Priority	Defect Report Impact Analysis Gap Analysis
<b>6.0</b>	<b>21 CFR Part 11 and Computer System Validation</b>	
	21 CFR Part-11 IQ/OQ/PQ Change Management Version Control	Document History Document Review Document Approval GDP
		GxP cGxP
<b>7.0</b>	<b>Real MANUAL TESTING PROJECT Discussion</b>	
	Real Manual Testing Projects, FRS, SDS, Test Plan, Test Case, Test Summary Report, Traceability Matrix, Defect report etc will be demonstrated to the students.	

\*Reimbursement available for selected candidates

## PART - II : Test Automation and Automation Testing Tools

### Test Automation

#### 1.0 Overview on Test Automation

Automation Testing Process  
 Importance of Automation Testing  
 Test Case selection for automation testing



### Mercury WinRunner

#### 1.0 Recording and Running Scripts

Recording a test script  
 Setting initial condition

#### 2.0 Introduction to the GUI Map

How the GUI Map works	Logical Names and Physical Descriptions
Two methods for GUI Map maintenance	Loading and unloading a GUI Map file

#### 3.0 Synchronizing Script and Application

Creating synchronization points

#### 4.0 Verification with Standard Checkpoints

Implementing GUI checkpoints  
 Implementing bitmap checkpoints

#### 5.0 Data-Driven Test

Understanding parameters  
 Using the Data Driver Wizard

#### 6.0 Creating and Using GUI Maps

How the GUI map is recorded and used  
 Using the RapidTest Script Wizard

#### 7.0 Batch Testing

Running tests in Batch mode  
 Calling a test from another test

#### 8.0 Test Script Language (TSL)

Functions, variables, constants and operators  
 Sending messages to the Test Results window

#### 9.0 User Defined Functions and Reusable Libraries

Creating functions and compiled modules (libraries)  
 Return codes and error handling

#### 10.0 Advanced Data Driving

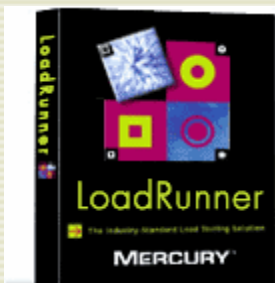
Reading from and writing to the Data Table  
 Writing to spreadsheets and to text files

#### 11.0 Managing Custom Objects in an Application

Learning the properties of custom objects  
 Mapping custom objects to standard classes

#### 12.0 Real WINRUNNER PROJECTS Discussion

Real WinRunner Projects, Scenarios, Scripts etc will be demonstrated to the students.



### Mercury

### LoadRunner

#### 1.0 Requirements and Planning an Effective Load Test

Define measurable goals for testing  
 Gather information before testing  
 Document and organize system information

#### 2.0 LoadRunner Overview and Architecture



Document and organize system information	
<b>2.0</b>	<b>LoadRunner Overview and Architecture</b>
LoadRunner architecture Where to install LoadRunner components Overview on different types of Virtual Users Recording Levels	
<b>3.0</b>	<b>Virtual User Generator (VuGen) Recording and Playback</b>
Structure the script based on planning Record a Vuser script for Web environment Configure Web Run-time settings to run the script Playback and verify Vuser script functionality	
<b>4.0</b>	<b>Script Enhancements(Multiple Actions and Transactions)</b>
Create multiple actions in a Vuser script Add Transactions to measure response times	
<b>5.0</b>	<b>Data Parameterization</b>
Understanding Parameters Adding Parameters	
<b>6.0</b>	<b>Design and Create Scenario</b>
Explain elements that make a LoadRunner scenario How to choose the scenario Present the basic steps for creating a scenario	
<b>7.0</b>	<b>Scheduling and Executing Scenario</b>
Schedule Scenario Configure scenario ramp up and ramp down Executing Scenario	
<b>8.0</b>	<b>Using Correlation</b>
Understanding Correlation Use the Scan for correlation tool Correlate data in test script Correlate a script manually using correlation functions	
<b>9.0</b>	<b>Performance Monitors</b>
Select Performance Monitors Add measurements to Performance Monitors	
<b>10.0</b>	<b>Results Analysis</b>
LoadRunner graphs and reports Techniques to identify bottlenecks	
<b>11.0</b>	<b>Real LOADRUNNER PROJECTS Discussion</b>
Real Loadrunner Projects, Scenarios, Scripts, Reports, Graphs etc will be demonstrated to the students.	



<b>Mercury Quick Test Professional(QTP)</b>	
<b>1.0</b>	<b>Fundamentals of Quick Test Professional (QTP)</b>
QuickTest Benefits in Test Automation Overview on Quick Test Professional Record and Playback Basic Script Object Identification and Object Spy Synchronizing Tests Standard and Text Checkpoints Parameterize tests Create data-driven tests Local and Global Data Tables	

**DO NOT MISS IT ! ENROLL SOON ! Call USnets**

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