

Wizards Training.

QA Training Course Curriculum

Duration: Four Weekends/ Sat & Sun: 9.00am – 1.00pm or 1.00pm – 5.00pm

Weekdays - Mon, Wed, Fri: 6.30pm – 9.30pm or Tue, Thu: 6.30pm – 9.30pm

Manual Testing

- ✚ Understanding Testing Terminology, SDLC, Testing cycle.
- ✚ Software Quality Assurance standards and Testing Methodologies
- ✚ Understanding RTM, General Design Docs
- ✚ Creating Work plan for different releases in a year
- ✚ Test Case Development (Basic techniques to derive test cases and creating and writing Test plan and cases templates)
- ✚ Manual Test Design and Execution
- ✚ Test Execution and Test Results Analysis
- ✚ Defect management
- ✚ User Acceptance Testing and production Deployment
- ✚ Differences between Manual Testing and Automated Testing
- ✚ Test Metrics and results analysis, Status Reporting
- ✚ Types of testing environments and ISO Standards
- ✚ Process benchmarks and baselines for SEI & CMM quality assurance Methodologies
- ✚ Creating process documents based on CMM standards
- ✚ Software testing process improvements

Automation

- ✚ Introduction
- ✚ Pros and Cons of Automation
- ✚ Types and Criteria for Automation
- ✚ Converting Manual test decks to Automated Scripts
- ✚ Available Tools for Automation
- ✚ Over view of Functional automation testing tools like QuickTestProfessional, WinRunner, Rational Robot
- ✚ Comparison of the functional Automation Testing Tools (QTP, WinRunner, Rational Robot)

Training Location: 1039 Sterling Road, Ste. 103, Herndon-VA-20151. USA.

Ph: 703-263-7278 Fax: 703-956-6769 training @wizardsedu.com

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LOAD RUNNER

Types of load testing

- *Volume testing, Performance Testing, Load Testing*
 - *Introduction, Real time usage & Scenarios,*
 - *Volume Testing in different environments (Unix, Windows, Database).*
- *Security testing*
 - *Introduction, Real time usage, Scenarios*
 - *Security testing using certificates, User, LDAP authentication*
 - *Differences in types of testing and planning, scheduling, Coordinate a load test*
- **Components of Load runner**
 - **Virtual User Generator**
 - **Introduction and Understanding different protocols supported in VUGen**
 - **Understand and Setting VUGen environment**
 - **Creating, running and organizing scripts in virtual generator**
Adding Application response time, DB synchronization, Rendezvous at app and DB level, Inserting Comments in scripts
 - **Parameterization in vuser scripts**
 - ⊕ **Understand the need to parameterize data**
 - ⊕ **Creating parameters in vuser scripts**
 - ⊕ **Using different techniques of parameterization**

Controller

- ⊕ **Understanding the logistics behind scenarios**
- ⊕ **Components of Controller and setting up scenarios**
- ⊕ **Configuring load generator**
- ⊕ **Creating a manual and Goal Oriented scenario**
- ⊕ **Setting up DB, Unix, Windows monitors**
- ⊕ **Scheduling a scenario includes Setting up a scenario, Adding vusers, assigning groups to different load generators, managing different options in controller.**
- ⊕ **Monitor scenario for performance monitors, vuser monitors.**
- ⊕ **Stop a scenario and Results Configuration**

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Load Runner Installation

- ⊕ **Windows and UNIX Pre and Post Installation**
- ⊕ **Setting Environment variables, Checking authorizations, Verifying Installation in Windows and Unix**

Real time scenarios during load testing

- ⊕ **Discussion of real time scenarios faced during testing of real business application**
- ⊕ **Resolution and Recovery of such scenarios and resolving problems.**

Quick Test Professional

Quick Test professional introduction

Understanding QTP objects and Object repository, Managing test objects

QTP testing process

- ⊕ **Different modes of Recording a test**
- ⊕ **Organizing test into actions**

QTP Checkpoints

- ⊕ **Standard, Image, Table, Text, Text area, bitmap, XML, database checkpoint**
- ⊕ **Inserting checkpoints in a test at different levels**

QTP Parameterization - Database, External file, Checkpoint Parameterization

QTP Recovery manager – Understanding and Design a recovery scenario and setting up recovery options using recovery manager

Adding programming logic to QTP test Running and Debugging test, Setting up Run time options

Scheduling batch tests and running them

Analyzing the test run such as understanding the results window, viewing checkpoint results, parameterization values, smart identification

Advanced QTP features

- ⊕ **Writing user defined functions**
- ⊕ **Calling WR scripts from QTP and QC configuration in QTP**

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Win Runner

- ❖ Win Runner Basics and Testing Process
 - ⊕ Creating GUI Map, Test Scripts
 - ⊕ Debug Test Scripts and Run Tests
 - ⊕ View Results and Report Defects
- ❖ GUI Map
 - ⊕ Types of GUI Map files, GUI Spy
 - ⊕ Maintaining GUI Map for regressions
- ❖ Recording and Playing Modes in Win Runner
- ❖ Checkpoints in a Test Script
 - ⊕ GUI, Bit map, Text, Table
- ❖ Programming the test with TSL
- ❖ Defining functions using function generator
- ❖ Advanced Data Driven and Batch Tests
- ❖ GUI Configuration, Win Runner Configuration
- ❖ Integrating Win Runner with Test Director
- ❖ Writing user defined functions in win runner
- ❖ Using Win Runner to setup compound recovery scenarios

QUALITY CENTER

Adding Test Cases

- ⊕ Characteristics and review of a useful test case
- ⊕ Building a test case structure
- ⊕ Creating manual test cases and Importing test cases from Word
- ⊕ Saving a Win Runner script to Quality Center and Requirements coverage

Test Sets and Test Execution

- ⊕ Creating folders and test sets, Defining test execution flow, Setting test set properties
- ⊕ Manual test execution
- ⊕ Logging defects during manual and automated testing
- ⊕ Adding test hosts and Running a test set

Defect Tracking

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- ⊕ **The Defect Life Cycle**
- ⊕ **Reporting defects and Searching for similar defects**
- ⊕ **Using grid filters**
- ⊕ **Saving favorite views and Deleting defects**

Reporting and Analysis

- ⊕ **Analysis menu graphs and reports**
- ⊕ **Creating editable reports with the Document Generator**

Advanced Reporting

DB AND UNIX TESTING

DB Testing

- ⊕ **Understanding Databases**
- ⊕ **DB Testing**
- ⊕ **Types of DB and Need for DB testing**
- ⊕ **DB Objects**
- ⊕ **Types of DB Statements – DDL, DML, DCL**
- ⊕ **Joins and Types of Joins**
- ⊕ **Inner Joins, Outer Joins, Left Outer Joins, Self Join**
- ⊕ **Using Inbuilt functions in DML statements**
- ⊕ **Conclusion**

UNIX Testing

- ⊕ **Understanding UNIX OS**
- ⊕ **Types of UNIX OS – Solaris, AIX, HP-UX, SCO**
- ⊕ **Unix Shells – bsh, ksh, csh, bash**
- ⊕ **Connecting to UNIX**
- ⊕ **Different Commands used in UNIX OS**
- ⊕ **Ls, mv, rm,**
- ⊕ **Viewing, Editing and deleting files**
- ⊕ **Search strings in UNIX**
- ⊕ **Process related commands in UNIX**
- ⊕ **Executing Scripts in UNIX**
- ⊕ **Scheduling jobs in UNIX**
- ⊕ **Applications in UNIX**

- **Exiting UNIX**

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Assignments on all Tools

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