

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: 1033 Sterling Road, Ste. 205, Herndon-VA-20170. USA.
Ph: 703-263-7278 Fax: 703-935-8849 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

✚ 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

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- ❖ 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

- ❖ The Defect Life Cycle
- ❖ Reporting defects and Searching for similar defects

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- ❖ 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

Assignments on all Tools

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