

# Wizards Training.

## QA Training Course Curriculum

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

### 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)

### 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).

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

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- **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
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- **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
  - Resolution and Recovery of such scenarios and resolving problems.

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### 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

### 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

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- **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**
  - **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**

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- **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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