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

Training Location: 1039 Sterling Road, Ste. 103, Herndon-VA-20170. USA.
Ph: 703-263-7278, 703-968-6268 Fax: 703-935-8849 training @wizardsedu.com
(Behind Fuddruckers @ Cross Roads of Dulles on Elden Street)

Wizards Training

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
o
Volume testing, Performance Testing, Load Testing

Introduction, Real time usage & Scenarios,

Volume Testing in different environments (Unix, Windows, Database).

o
Security testing

Introduction, Real time usage, Scenarios

Security testing using certificates, User, LDAP authentication
o
Differences in types of testing and planning, scheduling, Coordinate a load test

Components of Load runner

Virtual User Generator
o
Introduction and Understanding different protocols supported in VUGen
o
Understand and Setting VUGen environment
o
Creating, running and organizing scripts in virtual generator
o
Adding Application response time, DB synchronization, Rendezvous at app and DB level, Inserting Comments in scripts
o
Parameterization in vuser scripts

Wizards Training

Understand the need to parameterize data

Creating parameters in vuser scripts

Using different techniques of parameterization

-

Controller

o

Understanding the logistics behind scenarios

o

Components of Controller and setting up scenarios

o

Configuring load generator

o

Creating a manual and Goal Oriented scenario

o

Setting up DB, Unix, Windows monitors

o

Scheduling a scenario includes Setting up a scenario, Adding vusers, assigning groups to different load generators, managing different options in controller.

o

Monitor scenario for performance monitors, vuser monitors.

o

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.

Wizards Training

QA Training Course Curriculum
Duration: Four Weekends/ Sat & Sun: 9.00am – 1.00pm or 1.00pm – 5.00pm

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

Training Location: 1039 Sterling Road, Ste. 103, Herndon-VA-20170. USA.
Ph: 703-263-7278, 703-968-6268 Fax: 703-935-8849 training @wizardsedu.com
(Behind Fuddruckers @ Cross Roads of Dulles on Elden Street)

Wizards Training

○

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

Wizards Training

QA Training Course Curriculum

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

- **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**

- **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**

Wizards Training

Conclusion

UNIX Testing
o
Understanding UNIX OS
o
Types of UNIX OS – Solaris, AIX,HP-UX,SCO
o
Unix Shells – bsh, ksh, csh,bash
o
Connectiing to UNIX
o
Different Commands used in UNIX OS

Ls, mv,rm,
o
Viewing, Editing and deleting files
o
Search strings in UNIX
o
Process related commands in UNIX
o
Executing Scripts in UNIX
o
Scheduling jobs in UNIX
o
Applications in UNIX

Exiting UNIX

Assignments on all Tools