HP - TESTING - CERTIFICATE COURSE CONTENT

HP SOFTWARE UNIVERSITY COURSE CONTENT

1. HP SOFTWARE TESTING AUTOMATION TOOLS – Overview (48 hrs)

❖ This course will equip the students to qualify for a Testers Job - Functional / Performance at the End User tester role

COURSE DURATION : 48 hours

COURSE CONTENT:

- Introduction to Testing
- Using Unified Functional Testing 11.5 (UFT/QTP)
- Fundamentals of HP Load Runner (LR)
- Using Virtual User Generator (VuGen Scripting)

✓   **Course Completion Certificate** will be provided by **HP**

❖ **FEES:** Rs 15,000 (Negotiable)
❖ **CLASSES :**

❖ **WEEKEND CLASSES**: Sat & Sun 4hrs/day for 3weekends.
❖ **WEEKDAY CLASSES**: If week days 2.5hrs/day for 20days.

2. HP SOFTWARE TESTING AUTOMATION TOOLS - Basic (60 hours)

❖ This course will equip the students to qualify for a Testers Job - Functional / Performance At the End User tester role.

COURSE DURATION : 60 hours

COURSE CONTENT :

- Introduction to Testing
- Introduction Application Life Cycle Management (ALM)
- Using Unified Functional Testing (QTP/UFT)
- Using Virtual User Generator (VuGen Scripting)
- Fundamentals of HP Load Runner (LR)

✓ **Course Completion Certificate** will be provided by **HP**

❖ **FEES:** RS.25, 000 (NEGOTIABLE)

❖ **CLASSES :**

❖ **WEEKEND CLASS**:Sat & Sun 4hrs/day for 4weekends
.
❖ **WEEKDAYS CLASS**:2.5hrs/day for 24days.

HP TESTING SYLLABUS

HP SOFTWARE TESTING COURSE

AUTOMATION WITH ALM, UFT AND LR :

1)INTRODUCTION TO TESTING :

At the end of this module, you should be able to:

- Basic software testing principles and models.
- Processes used to test business requirements.
- Risk management strategies.
- Using reporting and Key Performance Indicators (KPIs) to measure success.

2)INTRODUCTION APPLICATION LIFE CYCLE MANAGEMENT (ALM)

At the end of this module, you should be able to:

- Managing quality information throughout the development cycle.
- Create releases and cycles
- Constructing and organizing requirements.
- Creating and executing manual and automated test sets.
- Monitoring defects.
- Using graphs and reports to track the success of a project

3) USING QUICK TEST PROFESSIONAL (QTP/UFT)

At the end of this module, you should be able to:

- Recording and playing back tests.
- Creating basic scripts from a manual test case.
- Use the Object Repository
- Enhancing basic tests with synchronization.
- Apply verification using standard check
- points Using debugging tools to troubleshoot tests

4) USING VIRTUAL USER GENERATOR

At the end of this module, you should be able to:

- Record and replay scripts in the web environment using VuGen
- Measure steps and business processes using transactions
- Parameterize scripts to vary user input data
- Correlate scripts to process server- generated data

5) FUNDAMENTALS OF LOAD RUNNER (LR)

At the end of this module, you should be able to:

- Identify the components of Load Runner
- Design a load test scenario
- Schedule Scenario
- Configure Performance Monitors Execute Scenario

SELENIUM - CERTIFICATION PROGRAM

COURSE CONTENT

INTRODUCTION:

• What do you mean by Automation?

• Why should we go for Automation

• Different Automation Tools

• Function Automation

• Performance Automation

• What is selenium

• Advantages of Selenium

• Disadvantages of Selenium

• Different b/t Selenium and QTP?

• Selenium Components

• SELENIUM IDE (INTEGRATED DEVELOPMENT ENVIRONMENT)

• SELENIUM RC (REMOTE CONTROL)

• SELENIUM WEB DRIVER

• SELENIUM GRID

SELENIUM IDE:

• How to download and install selenium IDE?

• Scenario: open google.com type text in the textbox and click on google search button.

• Covert the recorded scripts in other languages.

• Synchronization in IDE.

• How to run multiple test cases in IDE?

• When will we go for recording or selenium IDE?

SELENIUM Configuration:

• Selenium configuration with java.

• Steps to configure eclipse?

• How to create, write a program in eclipse?

SELENIUM RC:

• Locaters in RC(rough introduction on Locaters)

• ID

• Name

• CSS

• Xpath

• DOM

- LINK

- Firebug

- How to install Firebug

- Locators in Selenium RC

- How to install fire path in firebug?

- How to capture the xpath by using firepath?

CORE JAVA BASICS:

- Core Java Basics

- Access Modifier

- Method/Function

- Static and Non-Static

- Parameterization

- Oops

- Class & Object

- Inheritance

- Polymorphism

- Encapsulation

- Abstraction

- Syntax for simple if and nested if condition

VALIDATION COMMANDS, SYNCHRONIZATION & DEBUGGING:

- SELENESE

- How to change port number and IE problem solves

- Synchronization

- Maintaining Synchronization

- Commands for validation

- isElementpresant

- isTextpresant

- isChecked

- isVisible

- Debugging

- How to run the scripts in debugging mode?

WEBDRIVER:

- Webdriver introduction

- What is different between RC and Webdriver?

- Advantages of Webdriver

- How to work with other browsers

- Google chrome

- IE

- Opera & Safari

- How many test cases we can automate for a day?

- WebdriverBackedselenium

- Automation life cycle & framework

AUTOMATION LIFE CYCLE OR AUTOMATION APPROACH OR STRATEGY FOR ANY PROJECT/PRODUCT:

- Framework

- Modular Framework

- Data Driven Framework

- Keyword driven FrameWork

- Hybrid driven FrameWork

JUnit:

- Steps to configure JUnit in eclipse

- JUnit life cycle

- Batch execution or suite execution

- Limitations of JUnit

TestNG:

• How to install TestNG to eclipse

• TestNG Life cycle

• What is alert, conformation alert and popup?

ADVANCE CONCEPTS:

• Advance Webdriver

• How to handle the Ajax control?

• Splits in java

• Array

• How to declare an array?

• Sikuli

• Steps to configure Sikuli in eclipse

• How to connect to the database?

• How to handle captcha (security code)?

• How to capture the screenshot?

• Parallel execution

• Assert

• Terminology

• Bug life cycle / Bug tracking tool/(TFS-Team Foundation Server)

• ANT