UFT v12 Essentials

Course Summary

Description

This course covers the usage of HP UFT to automate functional test scripts. Attendees will learn software testing automation concepts and techniques to enable them to take advantage of the HP UFT functionality to create a regression suite of tests. This course covers the usage of HP UFT programming features to enhance automated test script functionality.

Topics

- Record and Playback User Actions
- Object Recognition and Management
- Application Verification
- Synchronization
- Parameters and Data Driving
- Using Multiple Actions in Tests
- Introduction to Expert View
- Writing Custom Verification Points
- Debugging tests
- Database Checkpoints
- XML Checkpoints
- Error Handling
- Descriptive Programming
- Procedures
- Advanced Data Driving
- Advanced Debugging

Audience

Quality assurance engineers, technical managers, software engineers, customer support engineers and anyone who needs to automate manual testing and verification processes.

Prerequisites

There are no prerequisites for this course.

Duration

Five days

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Course Outline

I. Record and Playback User Actions
- A. How HP UFT records user actions
- B. How to record a test case
- C. How to play back a test case and view the results

II. Object Recognition and Management
- A. How HP UFT recognizes application objects
- B. Managing test objects
- C. Using shared object repositories
- D. Insight – Image-Based Object Identification

III. Application Verification
- A. How to add verification to a test
- B. Adding Checkpoints in web and windows applications

IV. Synchronization
- A. What is test synchronization
- B. Recognizing when to add synchronization to the test

V. Parameters and Data Driving
- A. Why and how to parameterize and data drive the test

VI. Using Multiple Actions in Tests
- A. Separating a test into multiple actions
- B. Reusing actions in multiple tests

VII. Introduction to Expert View
- A. Translating steps between Keyword View and Expert View
- B. Adding steps in Expert View

VIII. Writing Custom Verification Points
- A. Adding custom application verification points in Expert View

IX. Debugging tests
- A. Using the Debug viewer and breakpoints
- B. Techniques for debugging test scripts.

Advanced UFT

X. Database Checkpoints
- A. How to verify applications are storing data in the database correctly

XI. XML Checkpoints
- A. Verifying XML files

XII. Error Handling
- A. Using optional steps
- B. Using VBScript to code error handlers

XIII. Descriptive Programming
- A. What is descriptive programming
- B. How to use descriptive programming
- C. When to use descriptive programming

XIV. Procedures
- A. Declaring subroutines and functions
- B. Creating function libraries
- C. Overriding and supplementing built-in test object functionality

XV. Advanced Data Driving
- A. Controlling test iterations through code
- B. Manipulating the Data Table through code
- C. Accessing test data stored in XML files

XVI. Advanced Debugging
- A. Advanced features of the debug viewer
- B. Advanced debugging techniques