

## UFT One

### 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.

#### 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
- 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
  - C. Synchronization
  - D. What is test synchronization
  - E. Recognizing when to add synchronization to the test
  - F. Parameters and Data Driving
  - G. Why and how to parameterize and data drive the test
  - H. Test combinations generator
- IV. Using Multiple Actions in Tests**
  - A. Separating a test into multiple actions
  - B. Reusing actions in multiple tests
- V. Introduction to Expert View**
  - A. Translating steps between Keyword View and Expert View
  - B. Adding steps in Expert View
- VI. Writing Custom Verification Points**
  - A. Adding custom application verification points in Expert View
- VII. Debugging tests**
  - A. Using the Debug viewer and breakpoints
  - B. Techniques for debugging test scripts.
- VIII. Database Checkpoints**
  - A. How to verify applications are storing data in the database correctly
- IX. Error Handling**
  - A. Using optional steps
  - B. Using VBScript to code error handlers
- X. Descriptive Programming**
  - A. What is descriptive programming
  - B. How to use descriptive programming
  - C. When to use descriptive programming
- XI. Procedures**
  - A. Declaring subroutines and functions
  - B. Creating function libraries
  - C. Overriding and supplementing built-in test object functionality
- XII. Advanced Data Driving**
  - A. Controlling test iterations through code
  - B. Manipulating the Data Table through code
  - C. Accessing test data stored in XML files
- XIII. Advanced Debugging**
  - A. Advanced features of the debug viewer
  - B. Advanced debugging techniques