

## UFT One Advanced Scripting

### Course Summary

#### Description

This course covers the usage of HP UFT programming features to enhance automated test script functionality.

#### Topics

- Introduction to Expert View
- Variables and Arrays
- Conditional Statement and Loops
- String Manipulation
- Writing Custom Verification Points
- Error Handling
- Advanced Data Driving
- Descriptive Programming
- Regular Expressions
- Regular Expression Objects
- Dictionary Object
- Procedure Definitions
- Procedures
- XII. File System Object
- XML Data Object
- ADODB Object
- Database Checkpoints

#### Audience

This course is designed for quality assurance engineers, software engineers, and power users.

#### Prerequisites

Before taking this course, students should have experience using HP UFT, including record and playback, synchronization, checkpoints and data driving. Knowledge of programming in VBScript is an asset.

#### Duration

Four days

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### Course Outline

- I. Introduction to Expert View**
  - A. Translating steps between Keyword View and Expert View
  - B. Adding steps in Expert View
- II. Variables and Arrays**
  - A. Declaring variables and arrays
  - B. Type conversions
  - C. Date-time declarations
- III. Conditional Statement and Loops**
  - A. If statements
  - B. While loop
  - C. Do-While loop
  - D. For loop
  - E. For Each loop
- IV. String Manipulation**
  - A. Left, Right, Mid
  - B. Len
  - C. Split
  - D. LTrim and RTrim
  - E. Replace
  - F. StrComp
- V. Writing Custom Verification Points**
  - A. Adding custom application verification points in Expert View
- VI. Error Handling**
  - A. Using optional steps
  - B. Using VBScript to code error handlers
- VII. Advanced Data Driving**
  - A. Controlling test iterations through code
  - B. Manipulating the Data Table through code
  - C. Accessing test data stored in XML files
- VIII. Descriptive Programming**
  - A. What is descriptive programming
  - B. How to use descriptive programming
  - C. When to use descriptive programming
- IX. Regular Expressions**
  - A. About regular expressions
- X. Regular Expression Objects**
  - A. Defining a Search Pattern
  - B. Using the Replace Method
- XI. Dictionary Object**
  - A. Uses of Associative Arrays
  - B. Regular Expression and Match Objects
- XII. Procedure Definitions**
  - A. Defining functions and subroutines
  - B. Return values
  - C. Exit criteria
- XIII. Procedures**
  - A. Declaring subroutines and functions
  - B. Creating function libraries
  - C. Overriding and supplementing built-in test object functionality
- XIV. File System Object**
  - A. Reading and writing from text files
  - B. Managing folders – create, delete
  - C. Managing files – copy, delete, move
- XV. XML Data Object**
  - A. Reading XML data
- XVI. ADODB Object**
  - A. Defining functions and subroutines
  - B. Return values
  - C. Exit criteria
- XVII. Database Checkpoints**
  - A. How to verify applications are storing data in the database correctly