

## Scripting QuickTest Pro Advanced

### Course Summary

#### Description

This core course provides an advanced comprehensive using the language programming interface used by QuickTest; VBScript. Intermediate and advanced users will learn a wide array of different modern techniques and advanced coding using the world of automation COM via VBScript.

#### Objectives

At the end of this course, students will be able to:

- Use the file system FSO, WMI and Shell32 and WSH.
- Work-around the VBScript limitations with advanced use of the Dictionary object and how to include reserved objects with QuickTest.
- Master your data using regular expressions, ADO and XML.
- Use .NET classes available for VBScript, and finally the QuickTest Automation Object Model.
- Use the QuickTest Object Model you will be able to manipulate QuickTest from external applications and VBScript.
- Create your own testing engine and implement your preferred configurations within your organization needs.

#### Topics

- Introduction to OOP
- Working with the File System
- Managing Folders
- Managing Files
- Reading and Writing Text Files
- Dictionary Object
- Mastering Regular Expressions
- Windows Script Host
- WSH Shell Object
- ActiveX Data Objects
- MSXML Parser
- Windows Management Instrumentation
- VBScript Classes
- Scripting QTP

#### Audience

This course is designed for intermediate or advanced users of QTP who need to improve the knowledge on advanced VBScript language and need to use advanced techniques for testing.

#### Prerequisites

Students should have experience with First Steps Windows or First Steps Web also Scripting QTP - Basic CT or Basic VBScript Knowledge.

#### Duration

Three days

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### Course Outline

- I. Introduction to OOP**
  - A. The OOP Model
  - B. The Object Model
  - C. Introduction to COM
  - D. Using COM Objects
- II. Working with the File System**
  - A. The FileSystemObject ( FSO ) Object
  - B. FSO Object Model
  - C. FSO Objects
  - D. Working with Disk Drives
- III. Managing Folders**
  - A. Binding Folders
  - B. Creating a Folder
  - C. Deleting a Folder
  - D. Copying a Folder and Its Contents
  - E. Moving a Folder and Its Contents
  - F. Folder Properties
  - G. Managing Folder Attributes
  - H. Enumerating Files and Sub-Folders
- IV. Managing Files**
  - A. Binding to a File
  - B. Deleting a File
  - C. Copying a File
  - D. Moving a File
  - E. Rename a File
  - F. File Properties
  - G. Managing File Attributes
  - H. Parsing File Paths
- V. Reading and Writing Text Files**
  - A. Binding to a File
  - B. Opening Text Files
  - C. Closing Text Files
  - D. Reading Text Files
  - E. Write to Text Files
- VI. Dictionary Object**
  - A. Configure Dictionary Properties
  - B. Adding Keys to a Dictionary
  - C. Manipulating Keys and Items in a Dictionary
  - D. Sharing Values Using dictionary Object
  - E. Use Dictionary Object for Generic Functions
- VII. Mastering Regular Expressions**
  - A. About Regular Expressions
  - B. Patterns
  - C. Matches Collection and Match Object
  - D. SubMatches object
  - E. Useful Regular Expressions
- VIII. Windows Script Host**
  - A. WSH Objects and Services
  - B. The WSH Object Model
  - C. Managing Network Drives
  - D. Managing Network Printers
  - E. WSH Network Object
- IX. WSH Shell Object**
  - A. Working with Shortcuts
  - B. Working with Special Folders
  - C. Working with Environment Variables
  - D. Reading From and Writing to the Local Registry
  - E. Sending Keystrokes to a Program
  - F. Running Programs
- X. ActiveX Data Objects**
  - A. ADODB Object Model
  - B. Connecting to a Data Source
  - C. Creating a New DSN
  - D. Connecting to a Database
  - E. ADO Cursors and Lock Types
  - F. Retrieving Data
- XI. MSXML Parser**
  - A. About XML
  - B. XML Documents
  - C. The XML Elements and Attributes
  - D. Using the MSXML Parser
  - E. Loading XML Documents
  - F. Handling XML Errors
  - G. Accessing Document Information

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### **Course Outline (cont'd)**

#### **XII. Windows Management Instrumentation**

- A. Scripting with WMI
- B. WMI Administrative Tools
- C. Using WMI
- D. WMI Files and Folders
- E. WMI Tasks

#### **XIII. VBScript Classes**

- A. Class Object
- B. Class Construct
- C. Class Variables
- D. Class Properties
- E. Class Methods
- F. Class Events
- G. Introduction to Windows Script Components

#### **XIV. Scripting QTP**

- A. Internationalization
- B. Disconnected Recordset
- C. Generating GUID's
- D. Accessing to the .NET Framework
- E. Keep QuickTest from Hanging
- F. Working with Shell.Application