Hewlett Packard Enterprise

Course Data Sheet

UFT350 – Unified Functional Testing 12.x Advanced

Course No.: UFT350-125	Category/Sub Category: Application Development Management
For software version(s): 12.5 Software version used in the labs: 12.5	Course length: Two days
Delivery formats: Instructor Led (ILT) and Virtual Instructor Led (VILT)	Training is available as a private session onsite.
To order visit: HPE Software Education Services	

Course Description

This course provides a comprehensive understanding of how to leverage and enhance the various features of Unified Functional Testing (UFT) by writing codes in the Editor. In this course, participants adopt principles frequently followed by developers as they design more sophisticated test scripts. By learning to manipulate dynamic objects and data, participants will be armed with a skill set applicable for testing nearly any type of application.

Audience/Job Roles

This course is intended for:

- Users who are already familiar with the basics of UFT as listed here: Record and Run UFT GUI tests, Parameterize the GUI Tests, using Maintenance Run mode, using the Global and Local DataTable sheets, resolving Object Recognition issues, using Regular Expressions to resolve Dynamic Object Properties, Utilizing a Local and Shared Object Repository, Adding Synchronization, using Standard Checkpoints, Parameterize Checkpoints, building Multiple Reusable Actions, adding Steps without Recording, testing with Web Applications, testing Web Services with UFT API tests, XML Checkpoint, File Checkpoint, Database Checkpoint, resolve UFT and application errors with Recovery Scenario's.

- Users who have minimum 10 months of working experience with the UFT GUI and UFT API tests.

- Quality assurance engineers who assume technical lead roles in the use of QuickTest Professional/UFT applications

Course Objectives

Upon successful completion of this course, you should be able to:

- List the main components of the Editor
- Identify when to use the Editor
- Retrieve and use the properties of an object
- Create programmatic descriptions
- Create tests that include VBScript
- Retrieve data from application object
- Use the Data Table object to store run-time data and drive actions
- Create scripts that access data from external sources
- Create new subroutines and functions
- Use the Function Library editor
- Identify when to handle exceptions programmatically

Prerequisites/Recommended Skills

To be successful in this course, you should have the following prerequisites or knowledge.

- Have working knowledge of Windows, websites, and browsers,
- Understand the basics of UFT,
- Have basic skills in programming or scripting
- Users who have minimum 8 months of working experience with UFT GUI and UFT API tests.

Learning Path

Unified Functional Testing 12.x Essentials ➤ Unified Functional Testing 12.x Advanced

Certification

- HPE AIS – HP0-M102 – HPE Unified Functional Testing 12.x Software
- HPE ASE – HP0-M216P – Advanced HPE Unified Functional Testing 12.x Software

Course Topics

Modules	Objectives
Module 1: Course Overview	• Describe the Course objectives, course schedule, and class logistics • Goals for the course • Recognizing fellow participants • Prerequisites • Lab environment overview
Module 2: Introduction to the Editor	• Identify the advantages of the Editor • Translate steps between the Keyword view and the Editor view • Explain how VBScript and objects are relevant to UFT • List common test objects and methods used in UFT
Module 3: Using the Editor	• Use the step generator to create new steps in your test • Enter steps manually in the Editor • Use statement completion (IntelliSense) • Trace and debug tests
Module 4: Using VBScript	• Create constants and variables to hold important values • Format steps and create comments for clarity • Use operators to modify or compare values • Build conditional statements • Call built-in functions from the VBScript function library
Module 5: Working with Object Properties	• Retrieve any property of any object in the application during a test run • Retrieve and set properties in the object repository • Use additional properties of the Reporter utility object
Module 6: Working With Dynamic Data	• Retrieve useful properties from list-type objects • Describe the VBScript looping statements • Use additional methods to explore the `Datatable`
Module 7: Working with Dynamic Objects	• Identify types of dynamic objects • Manage dynamic properties of objects in the object repository • Build a programmatic description for an object • Create and use a Description object • Retrieve a collection of child objects from a parent object
Module 8: Retrieving External Data	• Build scripts that access data from external sources • Import data from and export data to a Microsoft Excel worksheet • Perform `DataTable` operations • Use the `Connection` and `RecordSet` objects to query a database • Import and export data to text files
Module 9: Handling GUI Testing Exceptions	• Describe exceptions in a test • Describe how to handle exceptions with the test settings • Describe how to handle exceptions with Recovery Scenarios • Handle exceptions programmatically with VBScript • Handle positive and negative test data
Module 10: Creating New Procedures	• Identify the advantages of creating a procedure in a test • Create new subroutines and functions • Build a function library and associate it with a test • Register a procedure with an object class • Use a function as a recovery operation in a recovery scenario