

# TESTING TOOLS – QTP

## COURSE CONTENT

### What is QTP?

- Prepare Before Automation
- Application under Test
- First look at Add-Ins for QTP
- Understanding the QTP User Interface
- Setting up preferences in QTP before recording

### Record and run a script Record a simple script

- Save the script
- Run the test script
- Understand the result

### Introduction to Object Repository What is Object Repository?

- Types of Object Repository
- Object Repository Manager
- Associating shared Object Repository with test

### Shared Object Repository Local Object Repository

- Create a shared Object Repository
- Add objects to shared Object Repository
- Save a shared Object Repository
- Modify the shared Object Repository
- Comparing Local and Shared Object Repository

### Synchronization

- What is Synchronization?
- Synchronization in QTP
- Add Synchronization Steps for an Object

## VB Scripting in Expert View

- Types of Steps that can be added to the script without recording
- Use Step Generator to add functions on test objects, also using

### Utility functions and user defined functions

- Use conditional Statement
- Use Reporter function to report in the test results

### Parameterization

- Why Parameterization
- Insert an input Parameter
- Insert an output Parameter
- Parameterize the check point
- Parameterize the object property

### Check Point

- What is Check Point?
- Using Standard Check Point
- Using Regular expression

### Database checkpoint

- What is database checkpoint?
- Writing SQL Query using Microsoft Query
- Parameterize a database checkpoint

### Multiple and Reusable actions

- Creating multiple actions
- Define action as reusable
- Call reusable action into a main test
- Using local and global data sheet

### Recovery Scenarios

- Identify exceptions in a test
- Create a recovery scenario

- Associate a recovery scenario with a test
- Optional step in a test

### **Web Applications**

- Create a test script to test a web application
- Identify the QTP functions used while testing the web applications
- Look at the test Results

### **Descriptive programming (DP) in QTP**

- What is DP?
- Method1 of DP
- Providing multiple properties in method1
- Method2 of DP
- Providing multiple properties in method2
- Hierarchy of DP
- Why do we need to use DP

### **Different versions of QTP(Text based)**

- Difference between QTP 9.0 and QTP 8.2
- Difference between QTP 9.2 and QTP 9.0
- Difference between QTP 9.5 and QTP 9.2

### **Different versions of QTP(Text based)**

- What is Automation Framework?
- Different types of framework
- Modularity-driven Framework
- Data-driven Framework
- Keyword-driven Framework
- Model-based Framework
- Hybrid Framework
- Advantages of automation framework

## Introduction to VB Script

- Overview of vb script
- Overview of object oriented programming
- Common windows and web objects
- Common methods
- Guidelines for vb scripting
- Using statement completion
- Expanding vb script syntax
- Launching context sensitive help
- Applying with statement to the test

## Working with object properties

- Overview of retrieving object properties
- Run time properties versus test object properties
- Using get RO property and set RO property
- Tracing values in debug viewer
- Filtering events of reporter utility

## Working with Dynamic objects and dynamic data

- Identify dynamic objects
- Setting dynamic values in object repository
- Using programmatic description to deal with dynamic objects
- Retrieving child objects of dynamic objects
- Retrieving dynamic data from objects
- Using various looping statements to access dynamic data
- Populating a data table dynamically

## VB script operator, statement and functions

- Comparison operator
- Arithmetic operator
- Logical operator
- Constants and variables
- Adding comments

- Assigning variables to point to object
- Conditional logic in script(If then else, select statement)
- VB script functions
- string comparison
- data manipulation
- type conversion
- opening dialog box

### **Procedures**

- Comparing subroutines and functions
- Creating a function
- Defining arguments, setting return values, handling errors
- Using procedure locally
- Associating procedure with a test object
- Registering procedure with object class
- Overriding an existing object method