

Automation -- QTP 11.00

Introduction to Automation

- ✓ What is Automation Testing
- ✓ Benefits of Automation Testing
- ✓ Manual Testing Vs Automation Testing
- ✓ Various Automation Test Tools
- ✓ Tool selection criteria

Introduction to QTP 11.00

- ✓ Overview of Quick Test Pro
- ✓ Starting Quick Test
- ✓ Quick Test Window
- ✓ Quick Test Window Layout
- ✓ Using Quick Test Commands

Different ways of Developing Automation Tests

- ✓ Recording a test
- ✓ Standard Recording
- ✓ Analog Recording
- ✓ Low Level Recording
- ✓ Writing Script
- ✓ Descriptive Programming

Working with Test Objects and Object Repositories

- ✓ How QTP learns & identifies Objects
- ✓ Working with Test Objects
- ✓ Object Spy
- ✓ Configuring Object Identification
- ✓ Smart Identification
- ✓ Merging Shared Object Repositories
- ✓ Comparing shared objects Repositories
- ✓ Associating shared objects Repositories to a Test
- ✓ Working with Test objects methods & Properties

VB Script Language Overview

- ✓ VB Script Data Types
- ✓ VB Script Variables
- ✓ VB Script Constants
- ✓ Conditional Statements
- ✓ Loops

- ✓ Select case
- ✓ Arrays
- ✓ functions

User Defined Functions

- ✓ Creating User Defined Functions
- ✓ Advantages of Using Functions
- ✓ Creating Generic Functions
- ✓ Creating Function Libraries
- ✓ Associating Function Libraries
- ✓ Preparing Regression Test Automation Suites
- ✓ Function Decomposition Implementation

Advanced VB Scripting

- ✓ Working with Internet Explorer Application
- ✓ Working with File system Objects
- ✓ Working with Data Base Connection
- ✓ Working with Record Set Object
- ✓ Working with COM Object
- ✓ Working with Word Application Object
- ✓ Error handling with Err Object
- ✓ Working with Dictionary Object
- ✓ Working with XML Util Object
- ✓ Working with QC Util Object
- ✓ Working with DOM Object
- ✓ WSH Scripting Basics
- ✓ Working with Shell

Synchronization

- ✓ Need of Synchronization
- ✓ Different ways of Synchronizing the Tests
- ✓ Configuring Default Synchronization Time Out
- ✓ Exist Statement
- ✓ Wait Statement
- ✓ Synchronizing Point

Checkpoints

- ✓ Checkpoint Introduction
- ✓ Adding Checkpoints to a Test
- ✓ Types of Checkpoints
- ✓ Standard Checkpoint
- ✓ Image Checkpoint
- ✓ Bitmap Checkpoint
- ✓ Table Checkpoint

- ✓ Text Checkpoint
- ✓ Text Area Checkpoint
- ✓ Accessibility Checkpoint
- ✓ Page Checkpoint
- ✓ Database Checkpoint
- ✓ XML Checkpoint
- ✓ Checkpoints Supported Environment
- ✓ Validating the Above Checks through Code

Output Values

- ✓ Output Values Introduction
- ✓ Different Output Values
- ✓ Defining Output Values
- ✓ Storing Output Values
- ✓ Using Output Values in Script
- ✓ Substitute Above Output Values through Code

Transactions

- ✓ Purpose
- ✓ Inserting Transactions
- ✓ Inserting Ending Transactions
- ✓ Analyzing Transaction Results

Working with Actions

- ✓ Introduction to Actions
- ✓ Benefits of Actions
- ✓ Creating Tests with Multiple Actions
- ✓ Guidelines for working with Actions
- ✓ Creating new Actions
- ✓ Insert Actions
- ✓ Inserting Copy of Actions
- ✓ Inserting Existing Actions
- ✓ Splitting Actions
- ✓ Action Parameters
- ✓ Test Modularity Implementation
- ✓ Creating an Action Template
- ✓ Difference Between Reusable Actions and Functions

Developing Data Driven Tests

- ✓ Introduction to Parameterize Tests
- ✓ Parameterize a Test Manually
- ✓ Parameterize a Test using Data table
- ✓ Parameterization through XML Files, Excel Files, Flat Files
- ✓ Parameterize a Test using Environment Variables
- ✓ Data Driven Test

- ✓ Create Data Driven Tests
- ✓ Local and Global Data Tables

Regular Expressions

- ✓ Introduction to Regular Expressions
- ✓ Defining Regular Expressions
- ✓ Working with RegExp Object

Debugging

- ✓ Need of Debugging
- ✓ Break Points
- ✓ Step Into
- ✓ Step Over
- ✓ Step Out
- ✓ Debug Viewer
- ✓ Watch
- ✓ Variable
- ✓ Command

Recovery Scenarios

- ✓ Introduction to Recovery Scenarios
- ✓ When to use Recovery Scenarios
- ✓ Defining Recovery Scenarios
- ✓ Recovery Scenario Manager
- ✓ Managing Recovery Scenarios
- ✓ Associating Recovery Scenarios to your Test
- ✓ Programmatically Controlling the Recovery Mechanism

Descriptive Programming

- ✓ Introduction to Descriptive Programming
- ✓ When to use Descriptive Programming
- ✓ Descriptive Programming Approach
- ✓ Static Representation
- ✓ Dynamic Representation
- ✓ Handling Dynamic Objects
- ✓ Handling Similar Objects
- ✓ Developing Generic Scripts

Virtual Objects

- ✓ Define Virtual Objects
- ✓ Manage Virtual Objects

Working with Web Tables

AOM Scripts

- ✓ Developing Start Up Scripts

- ✓ Launching QTP
- ✓ Setting Tool Options
- ✓ Setting Test Options
- ✓ Opening a Test
- ✓ Running a Test
- ✓ Store Results in Required Location
- ✓ Closing a Test
- ✓ Closing QTP

- ✓ Examples & Scenarios Relevant to Major Businesses

API Programming

- ✓ API Introduction
- ✓ Windows API Library
- ✓ Registering API Library
- ✓ Calling the Library Functions in API

Scripting in Real-time Environment

- ✓ Quick Test Pro Coding Standards & Best Practices
- ✓ Naming Conventions
- ✓ Coding Rules

Automation Frameworks

- ✓ Automation Approach
- ✓ Planning and Design Frame Work
- ✓ Implementation of
- ✓ Modularity Framework
- ✓ Library Architecture Framework
- ✓ Keyword-Driven Framework
- ✓ Data-Driven Framework
- ✓ Hybrid Framework

Working with Quality Center

- ✓ Connecting to Quality Center
- ✓ Disconnecting from Quality Center
- ✓ Integrating Quickest with Quality Center
- ✓ Uploading Automation Resources in Quality Center
- ✓ Saving Tests into Quality Center
- ✓ Opening Tests from Quality Center
- ✓ Executing Tests from Quality Center

Additional Coverage

- ✓ Utility Objects
- ✓ Step Generator
- ✓ Function Definition Generator