

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

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 Quicktest 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
- Examples & Scenarios Relevant to Major Businesses

Performance Test Automation using Load Runner

Overview

- Performance Testing Concepts
- Performance Testing Types
- System Architecture
- Objective of the Performance Testing
- Phases of the Perf Testing
- Components of Load Runner
- LoadRunner Testing Process

Recording

- Structure of the script based planning
- Use Vugen to record a Vuser Script for Web Environment
- Describe HTML & URL recording levels
- When to use HTML and/or URL recording levels

Playback

- Identify the appropriate Web Run-time settings to set
- Configure Web Run-time settings to run the script
- Verify Vuser script functionality in VuGen
- Solve Playback problems by parameterizing the script
- Different types of parameterizations

Manual Correlation

- Distinguish between available correlation Methods
- Correlation a script manually using Correlation Functions
- Correlation during and After Recording
- Correlation after Recording
- Use the scan for Correlation tool
- Correlation data during recording
- Define rules for Correlation in Recording Options
- Enable Correlation during recording

Introduction to scenarios

- Explain elements that make a Load Runner scenario
- Identify different types of scenarios
- How to choose a scenario
- Present the basic steps for creating a scenario

Using Run-Time settings

- Script and scenario Run-Time settings
- Configure Run-Time settings in the Controller

Scenario Execution

- Prepare for Scenario run
- Identify techniques to efficiently run a scenario

Scheduling scenarios

- Scheduling Group and by scenario
- Prepare VuGen user Installation
- Configure scenario ramp up and ramp down

Performance Monitors

- Values of Performance Monitors
- Select Performance Monitors
- Add measurements Performance Monitors
- Performance Overlays to track down bottlenecks

Result Analysis

- Value of root cause analysis – resources bottlenecks, code loops

Diagnose errors with Load Runner Application and Architecture