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QTP Syllabus

The course includes Manual Testing + Automation Testing (QTP) details.
The Courses can be taken individually or in combined.

QTP Syllabus

Course Objectives

- Understand Benefits of using Quick Test to automate tests
- Create basic scripts from a manual test case
- Use Analog and low level recording modes
- Use check points
- Use synchronize statements
- Parameterize tests
- Manage objects in the Object Repository
- Configure object identification
- Use Smart Identification mechanism
- Implement Per-Action vs. Shared Object Repositories
- Run an integrated test scenario using Multiple Actions
- Implementing VB Scripting
- Creating FSO
- Implement Descriptive Programming
- Use Automation Object and Creating Automation Framework

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VBScript Basic

Chapter 1: Variables

- Create a variable
- Variable scope
- Naming Variables

Chapter 2: Conditional Statements

- If...then..else statement
- If...then..elseif statement
- Select case statement

Chapter 3: Looping

- For. Next loop
- For. Each loop
- Do...While loop
- Do...Untill

Chapter 4: Arrays

- Single Dimension Array
- Multi Dimension Array
- Array Functions

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Chapter 5: Date and Time Functions

- Display date and time
- Display the days
- Display the months
- Display the current month and day
- Add a time interval to a date

Chapter 6: Other Built-in Functions

- Uppercase or lowercase characters?
- Remove leading or trailing spaces from a string
- Reverse a string
- Round a number
- Return a random number
- Return a random number between 0-99
- Return a specified number of characters from the left or right side of a string
- Replace some characters in a string
- Return a specified number of characters from a string
- Eval Function

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Chapter 7: Creating New Procedures

- Identify the advantages of a new procedure
- Create new subroutines and functions
- Distinguish between a global procedure and an object method
- Register a procedure to an object class.
- Build and associate a library of functions

VBScript Advanced

Chapter 8: File system object

- How to create FSO
- How to work with text files

Chapter 9: Working Excel Object

- How to create Excel Object
- How to work with Excel File

Chapter 10: Working with Database

- Creating Connection Object
- Creating Record set object
- Database connection for MS Access
- Database connection for Oracle
- Database connection for SQL Server

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Chapter 11: Error Handling

- Types of Error
- Error Handling
- Custom errors

Chapter 12: Working with Dictionary Object

- Creating Dictionary object
- Dictionary Object methods
- Dictionary Object Properties
- Nested Dictionary Object

Chapter 13: Working with Regular Expression Object

- Creating RegExp Object
- RegExp Properties
- RegExp Methods

Chapter 14: Windows Script Host

- What Is WSH?
- Types of Script Files
- Running Scripts with the Windows Script Host
- WScript Object
- WshNetWork

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- WshShell
- WshScriptExec

Chapter 15: Working XML Object

- XML Object
- XML Object Methods
- XML Object Properties

Chapter 16: Classes in VBScript

- Objects, Classes, and Components
- Class Statement
- Defining Properties
- Defining Methods
- Class Events

QTP Basic

Chapter 17: Introduction to Automation Testing

- Manual testing Vs Automation testing
- Need for Automation testing
- Advantages of Automation testing
- Introduction to Tool POC

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Chapter 18: Introduction to Quick Test

- Record and Playback
- Understand Recording Levels
- Normal
- Analog
- Low level
- Understand Quick Test Results
- Record and Run settings

Chapter 19: Introduction to Checkpoints

- About Checkpoints
- Adding Checkpoints to a Test
- Understanding Types of Checkpoints
- Standard check point
- Database check point
- Bitmap check point
- XML Check point
- Text check point
- Text Area check point
- Page check point
- Table check point

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- Image check point
- Accessibility Check point

Chapter 20: Introduction to Synchronization

- Synchronizing Tests
- Add synchronization steps

Chapter 21: Output values

- Standard output value
- Database output value

Chapter 22: Object Repository Administration & Maintenance

- Object Repository Types
- Using Object Repository Manager
- Working with Shared Objects
- Working with Local Object
- Working with Object Properties
- Describe Per-Action vs. Shared Object Repositories
- Using Object Identification
- Configurations
- Describe How and When Smart Identification is used

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Chapter 23: Data Driven Test

- Parameterize tests
- Create data-driven tests
- Local and Global Data Tables
- Working with the Data Table
- Environment Parameter
- Random Number
- Test/Action Parameter
- Checkpoint and Property Value Parameterization

QTP Advanced

Chapter 24: Regular expressions

- Using Regular Expressions for Object Property Values

Chapter 25: Creating Tests with Multiple Actions

- Benefits of Test Modularity
- Create Multiple Action Tests
- Configure and Call Reusable Actions
- Splitting the actions
- Renaming the actions
- Action parameters

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Chapter 26: Recovery Scenario Manager

- Popup window Recovery
- Object State Recovery
- Test run error Recovery
- Application crash Recovery

Chapter 27: Data table methods

- Add Sheet
- Delete sheet
- Export
- Export Sheet
- Import
- Import sheet
- Getsheet

Chapter 28: Object Spy

- Understanding about Runtime/Test Objects/Methods
- Creating Scripts using GetROProperty, GetTOProperty, SetROProperty and
- GetTOProperties
- Create & use a Description object
- Identify when programmatic descriptions are useful

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Chapter 29: Descriptive Programming

- What is Descriptive Programming?
- Why Descriptive Programming?
- Static Descriptive/Dynamic Descriptive Programming
- Working with Dynamic Objects

Chapter 30: Automation Object Model

Chapter 31: Windows API Components

- Extern Object
- API Function
- Call Window API Functions

Test Automation Framework using QTP

Chapter 32: Introduction to Automation Frame Work

- What is Test Automation Framework?
- Types of Automation Framework
- Test script modularity
- Test library architecture
- Keyword-driven/table-driven testing
- Data-driven testing
- Hybrid test automation

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Chapter 33: Test Automation Frame Work Design

- Application study
- Test script modularity
- Creating shared repository for AUT
- Creating Reusable actions
- Create Test/Action Parameter for all actions
- Calling Reusable actions
- Creating Driver script
- Creating Initializer
- Creating Environment variables

Manual Testing Syllabus

Introduction to Testing

Testing Principle

- Verification
- Validation
- Quality Assurance

Quality Control

- Static Testing
- Dynamic Testing

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- Software Quality Assurance
- Differences between Verification and Validation
- Differences between QA and QC
- Differences between Static Testing and Dynamic Testing

Software Development Life Cycle: Different Life Cycle Models

- Waterfall Model
- V Model
- Incremental/Overlapping waterfall Model
- Prototyping Model
- Spiral Model
- RAD(Rapid Application Model)
- Sliced Model
- Agile Methodology

Testing Types

- Black Box Testing
- White Box Testing
- Graybox Testing
- Acceptance Testing

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Testing Techniques

- Boundary Value Analysis
- Equivalent Class Partition
- Error Guessing
- Partition Table

Test Design

- Test Methodology
- Test Scenarios
- Test Cases
- Test Case Template
- Types of Test Cases
- Difference Between Test Scenario and Test Case
- Creating Test Cases for Sample Application

Different Testing Definitions

- Build Acceptance Testing
- Smoke Testing
- Sanity Testing
- Regression Testing

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- Re-Testing
- Ad-Hoc Testing
- Monkey Testing
- Gorilla Testing
- More Testing Definitions

Defect Reporting and Tracking

- Error, Defect, Bug and CR
- Defect Reporting Approach
- Defect Reporting Steps
- Real Time Scenarios for Severity and Priority
- Defect Life Cycle

Quality Center

Requirements

- What are Requirements?
- Requirements in Test Director
- Customizing Requirements
- Requirement Details
- Dealing with Test Cases
- Analysis

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Test Plan

- What is a Test Case?
- Test Plan Tree
- Test Cases
- Customization
- Automated Test Cases
- Analysis

Test Lab

- What is a Test Set?
- Create a Test Set
- Executing Manual Test Cases
- Executing Automated Tests
- Test Run Properties
- Analysis

Defects

- What is a Defect?
- Adding Defects
- Customization

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- Status Flow
- Defect Grid
- Analysis

