

# Using QTP (Quick Test Professional) and Quality Center (QC) for automated Software Testing

(Sixty hours duration)

## About the Course

A project, under strict vigilance of testing, invariably fetches customer satisfaction (a key for business success).

While high level of testing calls for more investment, inadequate testing leads to enormous customer dissatisfaction. Hence there is a need for optimisation on test-investment (resource and infrastructure) in line with customer requirements.

## Training objectives

This training provides detailed insight into the QTP tool and Quality Center, which includes:

- ❖ Familiarity with the QTP tool
- ❖ Benefits of Automated Testing
- ❖ **CREATING a Test**, Setting up **EXECUTION** environment, **ANALYSING RESULTS**
- ❖ Creating **CHECKPOINTS** and accessing the reporting structure. **CUSTOM REPORTING** to test result
- ❖ **PARAMETERIZING TESTS** – Input/output Parameters Environment Variable, Data Table, External Data Files
- ❖ Creating scripts **DESCRIPTIVE PROGRAMMING**
- ❖ Use of **VB SCRIPT** – to enhance Test scripts
- ❖ Building Blocks to **FRAMEWORK DESIGNING**
  - **KEYWORD DRIVEN**
  - **DATA DRIVEN**
  - **HYBRID MODEL FRAMEWORK**
- ❖ **QC ADMINISTRATION** – Site and Project
- ❖ **Customizing QC Projects**
- ❖ Test Life Cycle Management via Quality Center
- ❖ Defect Life Cycle management through Quality Center
- ❖ **VARIOUS AUTOMATION TECHNIQUES**
  - **DATA BASE**
  - **WEB SERVICE**
  - **COMPONENT OBJECT MODEL**
- ❖ **DEMO PROJECT**
- ❖ **INTERVIEW QUESTION ANSWERS DISCUSSION**

## **Workshop Contents**

The sixty hours workshop would cover the topics as noted below. There would be exercises at appropriate junction points to elaborate and understand the concepts.

### **<< Quick Test Professional >>**

#### **Introduction to Automation Testing**

- Various Automation Testing Tools

#### **Introduction to Quick Test Professional**

- Overview of QTP
- QTP window
- Creating and executing a basic test
- Actions Types , Operations & Parameters
- Standard Checkpoint
- Standard Output value

#### **Object Repository**

- Software objects
- Types of object in QTP
- Object Repository
- Operations on Object Repository

#### **Object Identification Configuration**

- Normal Identification and Smart Identification
- Ordinal Identifier
- Making Tool Settings Global
- Virtual Object Configuration

#### **Parameterization, Synchronization**

#### **Checkpoints and Output Values**

#### **Debug Commands & Break Points**

- Inserting/Removing Brake Points
- Watching variables
- Changing Variable values

#### **Recovery Scenarios**

- Trigger events
- Recovery Operations
- Post recovery operations

## **Descriptive Programming**

## **Automation Frameworks**

### **<< Quality Centre >>**

#### **Site Administration**

#### **Project Administration**

#### **Test Life cycle management through quality center**

#### **QC workflow scripts**

#### **Defect Life cycle management in quality center**

### **<< VB Scripts >>**

#### **VB Scripts Fundamental and Features**

#### **Data Types and Variables**

#### **Comments, Constants, Operators**

#### **Conditional Statements and Loops**

#### **Functions user defined and Built-in**

#### **File System Operations**

#### **Excel Object Model**

#### **Database Object Model**

#### **Error Handling**

Note:

1. Hand-on exercise and case study would cover more features , as and when discussed in the workshop