

## PROJECT TESTING

- Module 1 : Test Design**
- Module 2 : Testing Environment**
- Module 3 : Test Execution (Project Testing)**
- Module 4 : HP QTP/UFT and HP QC/ALM**
- Module 5 : Mobile Apps Testing**

### **Module 1: Test Design**

- Project Management Plan
- Requirement Specification
- Requirement Change Management Testing Life Cycle
- Test Plan Preparation by Students
- Test Scenarios Identification by Students
- Test Cases Preparation by Students using Techniques (ECP and BVA)
- Guidelines for Web Testing
- Lab Checklist

### **Module 2: Testing Environment**

- Project/Product and Types of projects
- MVC Architectures
- About technologies
- Environment for Web Applications
- Web and Application Servers
- Architecture of project

## **Module 3: Test Execution**

**Build From Development to Testing**

**Build Release note**

**Test Case Execution**

**Defect Management-Bugzilla / Track+**

**Severity and Levels**

**Priority and Levels**

**Status Reports**

**Defect in Real Time Application**

**Defect Life Cycle**

**Retesting**

**Regression Testing**

**Project Build Workflow**

**Testing Strategy**

**Testing Process**

**Requirements Traceability Matrix**

**Database Testing using Toad**

**Test Closure**

**Exit Criteria for Testing**

**Build summary Report**

**Test coverage**

**Introduction to User Scenarios**

**Outlook Configuration and Navigation**

## Module 4 : HP QTP/UFT and HP QC/ALM

### HP QTP / UFT

#### Automation Testing process

- Tools Evaluation
- Effort Estimation
- Framework creation

#### Test Automation fundamentals

- Automated Testing
- Benefits of Automation Testing

#### Automation Testing Tools

- Open source Tools and Commercial Tools
- Test Automation Tool Evaluation
- Introduction to QTP
- QTP Licenses
- Add-in manager
- QTP Test Window

#### Recording Modes and Run Modes

#### Object Oriented Programming

- Class and object
- Understanding QTP script
- Sample scripts Development
- Object identification
- Types of objects
- Object Repository
- Object Repository manager
- Object spy

#### Descriptive programming

- Designing Descriptive programming
- Specifying the properties
- Description object

#### Synchronization

#### Transactions

#### Actions

- Types of actions
- Creating tests with multiple actions
- Creating and Inserting actions
- Action template

#### VB script

- Conditional statements
- Loop statements
- Built-in functions
- Creating user defined functions
- Function library
- Associating library files

#### QTP methods

#### QTP scripts template

#### Real-time test script development

#### Data driven testing-parameterization

- Data table
- Environment
- Random number
- Data base
- Text files
- Excel files

#### Check points

#### Output values

#### Regular expressions

#### Recovery scenarios

#### Automation object model

#### Virtual objects

#### Web programming

#### Automation frameworks implementation

- Linear framework
- Data driven framework
- Modular framework
- Keyword-driven framework
- Hybrid framework

## HP QC / ALM

### Test Management

#### Site administrator job

#### Quality center users job

#### Release management

#### Requirements specifications

#### Test plan

- Adding test scenarios and Adding test cases
- Mapping requirements with test cases
- Exporting Manual test cases to QC

#### Test lab

- Test execution
- Executing manual and automation tests
- Analyzing test results
- Defect reporting

#### Defects

- Defect reporting
- Defect tracking and Defect retesting
- Defect reports

#### Test resources

- Creating framework

#### Dashboard Reports

## Module 5 : Mobile Apps Testing

### Mobile App Testing Process

### Mobile Platforms (Android, iOS, Windows Phone and Blackberry)

### Installation of Third Party App in Android, iOS and Windows Phone

### Mobile app Testing

## After Course

1. Resume Preparation
2. Guidance to apply jobs
3. Written Test
4. Mock Interviews
5. Placement Assistance till you find a Job