

TESTING TOOLS with PROJECT

Module 1 : Software Engineering Foundation Program

Module 2 : Test Design

Module 3 : Testing Environment

Module 4 : Test Execution (Project Testing)

Module 5 : HP QTP/UFT and HP QC/ALM

Module 6 : Mobile Apps Testing

Module 1: Software Engineering Foundation Program (IT Industry Overview)

Introduction to Software Testing

SDLC Phases and Deliverables

SDLC Models (Waterfall, Spiral, Prototype, RAD, Iterative and incremental and Agile)

Software Engineering

Software Process

SEI CMMI Levels (1- Performed, 2- Managed, 3-Defined, 4-QuantitativelyManaged, 5-Optimizing)

Software configuration management-VSS/ TFS

SQA AND SQC

Verification and Validation

Testing Roles and Responsibilities

Testing terminology

Module 2: 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 3: Testing Environment

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

Module 4: 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 5 : 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 6 : 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