

PROJECT TESTING

- Module 1 : Test Design**
- Module 2 : Testing Environment**
- Module 3 : Test Execution (Project Testing)**
- Module 4 : Selenium**
- 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 : SELENIUM

SELENIUM

Introduction

- What is automation Testing?
- What we need to automate?
- What is selenium?

Different flavors of selenium

- IDE, Selenium-RC, Grid and Web Driver

Selenium IDE

- Selenium Overview
- Selenium IDE Introduction
- Installing Selenium IDE
- Recording Simple Test
- Running Simple Test
- Debugging Test
- Creating Selenium Test Suites
- Quick Tour of Selenium IDE - Simple Features
- Handling AJAX applications
- Selenium Commands

Locators

- Tools to identify elements/objects
- Firebug and IE Developer tools
- Google chrome Developer tools
- Locating elements by ID
- Finding elements by name, Link text, Xpath and CSS
- Selenium Test Runner
- Regular Expressions
- Creating selenium Test Suites
- Some Special IDE Commands
- Create Selenium IDE Script without Recording

Selenium Remote Control

- Download & Installing Selenium RC
- Running Selenium Scripts from cmd using Selenium RC
- Report generation for Selenium script

Testing Frame Work

- How to install TestNG piug in Eclipse
- TestNG Sample scripts and creating selenium script
- Creating Test suites & Report using Testing

Java Basics

- Installing Java and Eclipse
- Data Types Variables
- Conditional and Loops Statements
- Class and objects in Java
- Constructors, Inheritance & Interface
- Working With The Assertion
- Creating Packages
- Concept of JAR Files
- Log4j API and Usage in Selenium
- JDBC Concepts

Selenium RC Using Eclipse

- Set Up Selenium RC in Eclipse Using JUnit
- Start & Stop Selenium RC from Eclipse
- Converting Selenium IDE tests to Java
- Running Selenium Script with Eclipse & JUnit
- Writing Selenium tests using JUnit Framework
- Report Using ANT Build & JUnit

Sample Programs in RC for:

- Text box, Link, Button, Checkbox, Radio Button, Drop Down Box and Capture Screen shot, Page scroll down,
- Handel Alerts
- How to Read values from excel Sheet
- Create JUnit suite, Reports and Tool tip

Selenium Web- Driver

- Down load & Configure Web Driver Jars in Eclipse
- Architecture of Selenium Web Driver
- Drivers for Fire Fox, IE, I phone, Android .etc.

Sample Programs in Web Driver

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**