

**Duration - 35 hours**

**5 Days**

## **Course Contents**

### **Web Application testingwith Selenium WebDriver 2.0**

#### **Module 1: Test Automation            1 hours**

- Test Automation Introduction.
- Why we need Test Automation
- Advantages and Limitations of AT
- Current Tools in the Market for Automation Testing
- Open Source Vs Licensed Software
- Automation Challenges & Mitigations

#### **Module 2: Selenium Introduction    1 hours**

- History of Selenium
- Selenium features and Scope
- Architecture of Selenium
- Difference between selenium 1.x and Selenium 2.x
- Choosing your Selenium Tool

#### **Module 3: Web driver 2.0            14 hours**

- Selenium Web DriverArchitecture
- Web Driver Vs RC
- Installing and ConfiguringWeb Driver with Eclipse
- Simple Test case
  - Open and Close Browser
  - Cross Browser Testing – Firefox, IE ,Chrome, HtmlUnitDriver
- Handling various Web Element using WebDriver
- What is firefox profile
- Configuring javadoc in eclipse
- Desired capabilities class
- Proxy servers introduction
- Web driver Interface, UI elements ,Locators
- Identifying Web Element using id, name, link text, class, xpath, css
- Handling dynamic objects with webdriver
- How to extract objects from a page
- Screenshots of page
- Webdriver wait class
- How to manage certificate errors
- How to manage popups
- Handling Mouse movements and keyboard Events
- Introduction to Page object model
- Designing POM classes
- Screenshots, report generation, prioritizing tests
- What is page factory
- Utility functions

## **Module 4: Framework with TestNG 10 hours**

### **TestNG Framework**

- What is **TestNG**
- Configuring **TestNG** in Eclipse
- Annotations
- Test Suites
- Creating first test case with TestNg
- TestNg sequencing and prioritizing
- Skipping a test
- Running a Test using **TestNG** Assertions / Error Reporting
- Parameterization concept in TestNG with practical
- Parameterization with the help of @Parameters annotation
- Parameterization with the help of @DataProvider annotation
- How to create xml file in TestNG
- How to test cases in a batch
- TestNg with webdriver
- Hands-on Exercise
- Apache POI introduction
- Adding POI jar files in project
- How to read/write data in excel file with apache POI
- Log4j API introduction
- Adding log4j jar files in project
- How to create log4j.xml file in project root folder
- Hands on exercise
- Implemented Apache POI, log4j, TestNg and webdriver in Data Driven Testing project

## **Module 5: Selenium Automation framework 7 hours**

- What is automation framework
- What is page object model
- Steps for creating selenium automation framework
- Page object model using page factory
- Hands on exercise

## **Module 6: Mobile Testing with selenium 3.0 2 hours**

