**Selenium Training and Certification Classes in**

**Pune**

**Selenium**

Selenium is an open source, free automation testing tool used for web application testing. It is the most widely used tool now a days because of its extensive language and browser support. This course will cover selenium basics, selenium components, different types of selenium frameworks implementation by using Java language, TestNG, Cucumber test execution tools, project build management tool as Maven, Integrated development environment tool as Eclipse, continuous integration tool as Jenkins.

**Prerequisites**

Knowledge of Manual Testing is required.

Core Java

**Duration:** 70 Hours

**Training Highlights:**

We cover the complete core java training from selenium point of view.

Trainers are experts in selenium tool and having years of industry experience.

This training covers advanced selenium course which focuses on automation framework.

We provide complete selenium tool training on live project which gives student hands of

experience in tool.

Provide Interview tips and assist in resume formation.

**Selenium Syllabus**

**Selenium Basics**

**1. Introduction to Automation Testing**

What is Automation Testing?

Advantages of Automation Testing

Which Test Cases to Automate?

Different Automation tools

Automation Challenges & Mitigations

**2. Introduction to Selenium**

What is selenium?

History and various versions of selenium

Advantages of using Selenium over other tools

Selenium components

**3. Selenium Web Driver 3.0**

What is a driver?

Why Selenium Web Driver?

What is a Selenium Web Driver?

Automation Setup for Selenium Web Driver

Configuration of Selenium Jar using Eclipse

Setup for Firebug, Firepath for Mozilla Firefox browser

Web Driver Interface Methods

**4. HTML**

HTML basics

**5. Locators**

Use of locators

Different locators available in Selenium

* ID
* Name
* Link text
* Partial Link Text
* ClassName
* Tag name
* Xpath,

Absolute Xpath

Relative Xpath

Dynamic Xpath

* CSS

**6. WebElement**

Search WebElements on webpages

Web Element Methods

**7. Synchronizing Test with Wait**

Implicit Wait

Explicit Wait

Fluent Wait

With examples

**8. Action Interface and Action class**

Introduction

Use of Actions class

Actions class methods with description

Building a series of multiple actions

**9. Miscellaneous Selenium** **scenarios**

Capturing Screen shots

Alert and Pop up handling

Frames handling

Cookies

Why we handle Cookie in Selenium?

Cookies methods

Multiple Window Handling

Calendar handling

Java Script injection

Locate and handle web elements of Ajax framework

Verifying statements

**10. Handling Web Tables**

What is Web Tables?

Extracting values from Web Tables

Static and Dynamic Web Tables

**11. Excel sheet Operations**

Introduction

Read excel sheet with .xls & .xlsx format by using Apache POI jars

Write excel sheet .xls & .xlsx format by using Apache POI jars

**Advanced Selenium**

**1. Framework Designing**

What is a Framework?

Different Types of Framework

How to Design a framework?

Modular Testing Framework

Data Driven Framework using Excel

Downloading and configuration of Apache POI

Executing Test cases from Excel

Keyword Framework

Hybrid Framework

**2. TestNG**

TestNG & TestNG features

How to integrate TestNG with Eclipse

Integration of Maven with TestNG by using POM file

Parameterization by using Data Provider

Parameterization by using testing.xml file

TestNG listeners

TestNG Annotations

TestNG Assertions

TestNG Reporting

**3. Properties File**

Creation of Properties File

Properties Class

Read/Write properties file with example

**4. Page Object Model**

Introduction

Advantages of POM

How to implement POM using Page Object and Page Factory by using Selenium WebDriver

**5. Log4j**

Introduction

Log4j properties

Integration of Log4j with Eclipse

Use of log4j in Selenium framework

**6. Behavior driven development (BDD) framework using Cucumber**

What is BDD?

Use of Cucumber tool to implement BDD framework

How to convert User Story into scenario’s format

Preparing Feature files having test scenarios

Given, When, Then, And, But annotations and usage in features class

Writing a step definition

Writing Runner Class

Passing parameters in Step Functions

Using regular expression in step implementation to parameterize

Parameterize complete scenario using features class

Cucumber Annotations

Data table in Cucumber and its implementation

Pretty, Tags and Glue

Cucumber HTML Reports Log4j Usage

Using Assertions to report failure

Running simple feature/Step scenario

Handling multiple feature files

Use log4j for reporting

Executing project from eclipse

Executing project from Maven

Generating Junit, Cucumber reports

Background and Pending Exception

Implementing/deciding Tags

Running all/limited tests

**7. Build Tools-Maven**

How to create a maven project in Eclipse

Maven Build Cycles

How to compile and Run tests using Maven

**8. Continuous Build Integration tools-Jenkins**

What is Jenkins and how to use it?

Integration of Maven/TestNG/Jenkins/Selenium

**9. Selenium Grid**

Introduction & Architecture of Selenium Grid

Configuration of Selenium

Selenium Grid (Hub and Node)

Writing a Sample Script using Selenium RC

Some Practice and Sample Programming using Grid

**10. Auto IT**

Introduction

Download file using Auto IT in Selenium Web Driver with example

**11. Java Database Connectivity (JDBC)**

Introduction

Java Integration with database

Fetching records from database and write on .xlsx or .xls file by using Apache POI jars