

Introduction to Automation

- What is automation testing
- Advantages of Automation Testing
- How to learn any automation tool
- Types of Automation tools

Introduction to Selenium

- What is Selenium
- Use of Selenium
- Features of selenium
- Difference between Selenium and QTP

Selenium Components

- Selenium IDE
- Selenium Core
- Selenium RC
- Selenium Grid
- Selenium 2.0 - Web Driver

Selenium IDE

- Selenium Overview
- Selenium IDE Introduction
- Downloading and Installing Selenium IDE
- Recording and Running a Simple Test
- Selenium IDE - Features
- Installing Useful Tools for Writing Tests
- Selenium Concepts
- Selenium Commands
- Verifying Page Elements - Assertions and Verifications
- Wait Commands
- Object Identification
- Element Locators
- Regular Expression patterns
- Selenium Test Runner
- Using Regular Expressions in Selenium IDE

- Using Java Script functions in Selenium IDE
- Creating Selenium Test Suites
- How to run the recorded script against other browsers
- Why companies are not using recording tools
- Limitations of Selenium IDE

Selenium Core

- Selenium Core Overview
- Installing Selenium Core
- Running Selenium Core Test Suites

Core Java Fundamentals

Language Fundamentals

- History of Java
- Features of java
- Java Programming Language Keywords
- Class and Object
- Data Types
- Array Declaration, Construction and Initialization
- Encapsulation
- Inheritance
- Polymorphism

Flow Control, Exceptions, and Assertions

- Writing Code Using if and switch Statements
- Writing Code Using Loops
- Handling Exceptions
- Working with the Assertion Mechanism

Using the java.lang.String Class

- Using the java.lang.Math Class
- Using Wrapper Classes
- Using the equals() Method with
- Strings and Wrappers and Objects

Inner Classes

- Method-Local Inner Classes
- Anonymous Inner Classes
- Static Nested Classes

Defining, Instantiating, and Starting Threads

- Preventing Thread Execution
- Synchronizing Code
- Thread Interaction

Object Orientation, Overloading and Overriding, Constructors

- Benefits of Encapsulation
- Overridden and Overloaded Methods

About Eclipses

- Installing Eclipse
- Creating Simple Project in eclipse
- Eclipse and Selenium together
- Importing and Exporting
- Debugging using Eclipse
- Exploring Eclipse – Basic
- Exploring Eclipse – Advanced

Object Identification using Fire Bug and Firepath

- Introduction to Firebug
- Downloading and installing of Firebug
- Downloading and installing of Firepath

- How to identify the xpath for an particular element
- Identifying objects using Name, ID, Xpath, Dom, Css and link

Selenium RC - 1.0

- Installing Selenium RC
- Selenium RC Overview
- Starting and Stopping Selenium Server
- Creating the scripts by using functions
- Selenium Client Libraries
- Browser commands with examples
- Validation commands with examples
- Debugging the scripts

Basic and Advanced - Selenium 2.0 - WebDriver

- Introduction to selenium 2.0
- Advantages of web driver
- Web Driver v/s RC
- Architecture of Web Driver and RC
- Installation / Configuring Eclipse for Web Driver
- Identifying the elements in Web Driver Using Id, Name, Xpath ,link and CSS
- Working with Different drivers like HtmlUnit driver, Firefox Driver, IEDriver, Chrome Driver, Android Driver etc...
- Creating the generic scripts in Web Driver
- Creating the scripts by using functions
- Capturing screenshots
- Simulating Keyboard Events
- Handling Drag and Drop
- Handling Auto complete feature
- Mouse over action in web Driver
- Web Driver Client Libraries

- Web Driver commands with examples
- Handling Web Tables
- How to take data from excel sheets
- Why should we use excel sheets
- Working with excel sheets using Web Driver
- How to take data from DB
- Handling Pop-up's and alert messages
- Handling Ajax events
- Working with Dropdown and page back commands
- Working with frames
- Working with Implicit Wait and Explicit Wait
- Capturing screenshot on failure
- Web Driver with TestNG / Junit
- File upload and download

How to use TestNG and Junit in Selenium

- Introduction to TestNG
- Why TestNG
- Setting up TestNG
- Working with TestNG
- Advantages of TestNG over Junit
- Exploring TestNG Features
- How to Use TestNG Annotations
- Writing Selenium testing script from scratch
- Creating Test suites using TestNG
- Creating and running Test suites using TestNG
- Skipping Tests
- Setting priority of execution for test cases
- Executing group of regression/sanity/smoke test cases using TestNG
- Data Driven Testing TestNG

- TestNG Execution Report
- Printing the log statements in TestNG report
- TestNG Results output folder walkthrough
- TestNG Reporting features

Sikuli Tool for handling windows

- Installing Sikuli
- Sikuli Overview
- Why Sikuli?
- Sikuli Script Examples
- Compiling Sikuli scripts
- How To Use Sikuli scripts in Selenium WebDriver

Working with Robot Class to handle windows popups

- What is mean by Robot class
- Why Robot class in Web driver
- Usage of Robot class in Web Driver
- Handling windows popups using Robot class in Web Driver

Cucumber Tool with Web Driver

- Cucumber tool Overview
- Downloading Cucumber Jars and installation
- Preparing Features File having test scenarios
- Writing Runner Class
- Given, When, Then, And, But annotations and usage in features class
- Cucumber HTML Reports
- Usage of cucumber tool with Web driver

Maven for Selenium & TestNG Integration

- Apache - Maven
- What is Maven
- Installing the Maven
- Configuring the Maven
- What is pom.xml file
- Using the pom.xml file
- Setting up the Maven project in eclipse editor
- Use of Maven project
- Building and running the selenium Maven project
- Updating the jar files by using Maven
- Updating the libraries by using Maven
- Updating the selenium project dependencies by using Maven
- TestNG Maven Configuration
- Executing TestNG from maven

- How to execute the scripts from framework

Apart from regular course will provide below:

- Materials on selenium & core java
- Interview questions
- Resume preparation for Selenium Jobs
- 100% Assistance with the real time experts for preparing & attending the interviews

Selenium Grid

- Introduction Selenium Grid
- Advantages of Selenium Grid

Automation Framework

- What is Framework
- Types of Frameworks
- What is modular framework
- What is Data Driven framework
- What is Keyword driven framework
- What is Hybrid framework
- Use of Framework
- How to develop the framework from the scratch
- Integration of the framework