

Selenium Testing

- *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*

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*
- *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*

JavaScript and HTML

- *Introduction*
- *Statements*
- *Comments*
- *Variables*
- *Operators*

- *Comparisons*
- *If...Else*
- *Switch*
- *Functions*
- *For Loop*
- *While Loop*
- *Break Loops*
- *For...In*
- *Events*
- *Try...Catch*

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*

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 Eclipse IDE

- *Installing Eclipse*
- *Creating Simple Project in eclipse*
- *Eclipse and Selenium together*
- *Importing and Exporting*

- *Debugging using Eclipse*
- *Exploring Eclipse – Basic*
- *Exploring Eclipse – Advanced*

Fire Bug, Xpath and CSS

- *Introduction to Firebug*
- *Downloading and installing of Firebug*
- *Downloading and installing of xpath*
- *How to identify the xpath for an particular element*
- *Identifying objects using CSS*

Selenium RC

- *Installing Selenium RC*
- *Selenium RC Overview*
- *Starting and Stopping Selenium Server*
- *Creating the generic scripts in selenium*
- *Creating the scripts by using functions*
- *Selenium Client Libraries*
- *Browser commands with examples*
- *Interactive commands with examples*
- *Information commands with examples*
- *Validation commands with examples*
- *How to take data from excel sheets*
- *Why should we use excel sheets*
- *How to take data from DB*
- *Debugging the scripts*
- *Maintaining the synchronization points*

- *How to handle Pop-Up's and alert messages*

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*
- *Data Driven Testing TestNG*
- *TestNG Execution Report*
- *TestNG Results output folder walkthrough*
- *TestNG Reporting features*

Selenium Grid

- *Introduction Selenium Grid*
- *Advantages of Selenium Grid*

Advanced Selenium 2.0 – Web driver

- *Introduction to selenium 2.0*
- *Advantages of web driver*
- *Web Driver v/s RC*
- *Architecture of Web Driver and RC*
- *Web Driver IDE*
- *Installation / Configuring Eclipse for Web Driver*
- *Identifying the elements in Web Driver Using ID,Name,Xpath,Dom and CSS*

- *Working with Different drivers like Html Unit driver, Firefox Driver etc...*
- *Creating the generic scripts in Web Driver*
- *Creating the scripts by using functions*
- *Web Driver Client Libraries*
- *Web Driver commands with examples*
- *Working with excel sheets using Web Driver*
- *Web Driver with TestNG / unit*

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*
- *Integration of the framework*
- *How to execute the scripts from framework*