

# SeleniumJava Training Solution

*Online and classroom training*

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# Selenium Course Content

## Selenium Intro

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- What is selenium
- Jobs/Opportunities
- Supported Browser
- Supported OS
- Supported languages

## Java Intro

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- Installing Java
- Installing Eclipse
- Features of Java
- Why Java for Selenium
- First Eclipse Project
- First Java program
- Concept of class file
- Platform independence
- Data types in Java
- String class
- If statements

## Conditional and concatenation operators

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- While Loop
- For Loops
- Practical Examples with loops
- Usage of loops in Selenium
- Single Dimensional Arrays
- Two Dimensional arrays
- Practical usage of arrays in Selenium
- Drawbacks of arrays
- Functions
- Collection API

## Object Oriented Programming

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- Local Variables
- Global Variables
- Static and Non-Static Variables
- Static and Non-Static Functions
- Creating Objects in Java

- Meaning of static
- Why is main method static?
- Object and Object References
- Call by reference and Value
- Constructors
- Constructor Overloading
- Inheritance
- Interface
- Diff between Interface and class
- Usage of interface in Selenium
- Usage of Objects in Selenium
- Try/catch block
- Read/write from excel file
- Java list/Set

### Selenium IDE

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- Installing Selenium IDE
- Recording Script
- Running, Pausing and debugging Script
- Running a script line by line
- Inserting commands in between script
- XPATHS and installing firebug to get XPATHS
- Wait Commands
- Verification and Assertions
- JavaScript
- User-extension.js in Selenium IDE
- Using if statements and loops in IDE.
- Echo, StoreEval and StoredVars Demystified
- Creating your own user extensions.
- Making a function in user extension to generate random number.
- Capturing screenshots from Selenium IDE
- Sample scripts

### Understanding XPath & Object Identification

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- Installing Firebug and FirePath Addons in Firefox
- Using Firebug and Firepath
- Extracting Xpaths and relevance of Xpaths
- Difference between xpath/cssselector
- Identify object using different attributes

### Selenium RC

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- What is Selenium RC
- Architecture of RC
- Difference between Selenium IDE and Selenium RC
- Difference between WebDriver(2.x) and Selenium RC(1.x)
- Configuring Selenium RC in Eclipse
- Javadocs for Selenium RC
- Selenium Interface
- Starting and Stopping Selenium Server
- Running Sample Selenium code
- Running sample script in FF
- Running sample script in IE
- Running sample script in Chrome
- Browsers supported by RC
- Dynamic Objects/WebTable

### WebDriver

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- Identifying Web-Elements using id, name, linkname, class, xpath, tagname
- Handling Input box/buttons, list/selection boxes, radio buttons, check boxes
- Dynamic objects
- Extracting links and other Web-Elements
- Capturing screenshots with WebDriver
- Window handles
- Handling Frames in Web Page
- WebDriverWait Class
- Extracting Data from WebTable
- Setting the page load timeout- WebDriver.Timeout Interface
- Simulating front and back button click on Browser using selenium
- Finding Coordinates of a Web Object
- Drag and Drop Function
- Handling Mouse Event
- Handling Keyboard Up-Down Arrow
- Handling Keyboard Enter Key
- Select checkbox randomly
- Working with Rows and Columns
- Automation flash application
- Connection with DB
- Automate videos (Utube Eg)
- Auto-IT tool

### TestNG

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- What is TestNG
- Installing TestNG in Eclipse

- TestNG annotations
- Understanding usage of annotations
- Running a Test in TestNG
- Batch Running of tests in TestNG
- Skipping Tests
- Parameterizing Tests – DataProvider
- Assertions
- TestNG Reports
- Advantages over Junit
- Using TestNG in Selenium

#### **Ant**

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- What is ant
- What is xslt report
- How to generate xslt report
- Create .bat file and compile and run it and generate report in graphical format

#### **Grid**

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- Introduction
- Node & Hub concept
- maxSession and maxInstance
- Executing selenium tests on multiple machines with diff browsers/OS
- Run all the test cases parallel
- Run all the test cases serially

#### **FrameWork**

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- Data Driven Frame Work
- Keyword Driven Framework
- Hybrid Framework

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