

Selenium Online Training Course Content

Faculty: Real time and certified

(Includes theoretical as well as practical sessions)

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

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- 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

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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

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- 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

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

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- 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

Auto IT Script for handling windows

- Installing Auto IT
- Auto IT Overview
- Why Auto IT?
- Auto IT Script Examples
- Compiling Auto IT scripts
- How To Use Auto IT scripts in Selenium RC

Selenium Grid

- Introduction Selenium Grid
- Advantages of Selenium Grid

Advanced Selenium 2.0 – Web driver

- Introduction to selenium 2.0
- Advantages of web driver

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- 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 HtmlUnit 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 / Junit

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