

# SELENIUM WITH JAVA



IT EDUCATION  
CENTRE

## 1. Introduction Of Selenium

Explanation of selenium and its advantages  
Differences between selenium and QTP

## 2. Components Of Selenium

Selenium IDE  
Selenium RC  
Selenium Grid  
Selenium WebDriver

## 3. Selenium JAVA language

Introduction  
Data types  
JAVA Variables  
JAVA Modifier. Comments in JAVA  
JAVA Basis  
Execution of JAVA

## 4. Introduction Of Selenium IDE

Main Features of Selenium IDE  
Installing Selenium IDE  
Test with Selenium IDE

## 5. Selenium Webdriver

Introduction to selenium webdriver  
Setting up eclipse  
Downloading and configuring webdriver in eclipse



IT EDUCATION  
CENTRE

## 6. Selenium WebDriver Commands

- Get Commands
- Navigate Commands
- Element Visibility Commands
- Other Commands

## 7. Locators Of Selenium (Webdriver)

- Tools to identify elements and object
- Google Chrome Developer Tools
- Locating elements by ID, Name, LinkText, ClassName etc.
- XPath , Types in X-path

## 8. Advanced Features IN Selenium

- Handling Pop Up / Alert Window
- Drop Down Operation
- Scroll Down/up
- Right Click Operation

## 9. Concept of framework

- Introduction to framework
- Use of framework
- Different types of framework
- Different types of packages in framework

## 10. TestNG Framework

- Introduction to TestNG
- Setting up eclipse
- Downloading and configuring TestNG in webdriver
- Functionality provided by TestNG
  - Parallel Testing
  - Report Generation Etc.



**IT EDUCATION**  
CENTRE

## 11. Data Driven Framework

Data driven testing

Apache poi library and installation

Advantages of using Data Driven Framework

## 12. Java For WebDriver

Introducing the JAVA technology

Relating Java with other languages

Showing how to download, install, and configure the Java environment on a Windows system

Key features of the technology and advantages of using Java

Java Features

Java Keywords , Java Data Types

Declarations and Access Control

Operators and Assignments , Arrays , Packages

Introduction to all predefined packages , User Defined Packages, Access Specifiers

## 13. Object-Oriented Programming Concepts

Introduction to Class , Object

Inheritance and Types

Using types of polymorphism such as overloading, overriding, and dynamic binding

Interfaces

## Introduction Exceptions categories

Standard Java Exception classes

Using Try-catch and finally clause



**IT EDUCATION**  
CENTRE

## Collections

Introduction to Collections framework

List, Set and Map

Difference of All Collections Interfaces and classes

Reading data from Property files using java program

Reading and Writing data from/to Excel files using Apache POI

API and JXL API



IT EDUCATION  
CENTRE