

SELENIUM COURSE CURRICULUM

Topic 01: Selenium syllabus

Topic 02: Installation of Selenium IDE

Topic 03: Installation of Webdriver

Topic 04: Configuring TestNG and Eclipse

Topic 05: Basic set up test frameworks for JAVA

Topic 06: MAVEN + Jenkins + Selenium integration

Topic 07: Selenium syllabus

Topic 08: Selenium IDE

- Selenium IDE installation
- Identifying the elements
- Record and playback features.
- Properties of Selenium IDE
- Assert and Verify commands in selenium IDE
- Establishing checkpoints in test cases using selenium IDE

Topic 09: Java Concepts

- Introduction to JAVA
- OOPs concepts
- Conditional statements
- Loops
- Switch statement

Topic 10: Break and continue statements

- Creating classes and Objects
- Data Types
- Operators in java
- Method overloading
- Constructors
- Constructor overloading
- Inheritance
 - a. Single inheritance
 - b. Multiple inheritance
 - c. Multilevel inheritance
- Method overriding
- Interfaces
- Reading Excel and Writing into Excel files using Java

Topic 11: Selenium WebDriver

- WebDriver environment setup
- First automation program
- Interacting with Chrome, Firefox and IE browsers using WebDriver
- Synchronization in selenium
- Handling Input fields, buttons, dropdowns.
- Handling Check boxes, Radio buttons and Alerts.
- Retrieving the data from the tables.
- Retrieving the data from the drop downs.
- Mouse over the elements and click on buttons
- Handling Multiple windows and Pop-ups
- Handling the Non-browser windows using AutoIt tool.
- Data Driven programming
- Taking the screenshots of failed test cases.
- Reading the Data from external files and using in test cases
- Writing the test results to test cases.

Topic 12: TestNG (Test frame work)

- TestNg installation
- Creating test cases in testng
- Creating test suites in testng
- Running the test suite using testng
- HTML test reports generation
- Executing the test cases on multiple browsers

Topic 13: MAVEN

- Maven installation
- Configuring the maven with selenium project
- Running the test cases using the maven

Topic 14: JENKINS

- Installing the Jenkins
- Configuring the Jenkins with the selenium project
- Building the project using the jenkins
- Running the test cases using the jenkins
- Generating the reports

Topic 15: SELENIUM GRID

- Configuration of selenium GRID
- Running parallel test cases using GRID