

1. [C Sharp \(C#\) \[Please click on the link to see the c# content\]](#)

2. **Introduction to Selenium**

Selenium Origins

Selenium - what is it?

Selenium Features

Selenium Supported Platforms

3. **Selenium vs QTP**

4. **Selenium Variants**

Selenium IDE

Selenium Remote Control

Selenium Web Driver

Selenium Grid

5. **Installation of Java & Selenium**

6. **Selenium IDE**

Introduction

Setting up Selenium IDE

IDE in detail - Features and Components

Record and Playback in IDE

Editing Scripts in Selenium IDE

Running a Test Script

Selenium Commands

Adding Verification Points

Script Examples

Test Suites

Advanced IDE - Java Script, UI Elements, and User-Extensions

7. **Selenium Web Driver**

Why Webdriver?

How Webdriver works?

Difference between Selenium RC and Webdriver

Setting up webdriver

Creating scripts using Webdriver

Playing with UI objects using Webdriver

Cross browser testing using Webdriver

Advanced WebDriver - Multiple browsers, Browser profiles, Screenshots etc.

Using Page Objects in WebDriver

## 8. **Selenium Remote Control (RC)**

Description and How Selenium RC works

Selenium RC Installation

Selenium RC Server

Choosing RC Programming Language

Exporting IDE test to RC script

RC Architecture

Writing a Test Script in RC

## 9. **Locators (developer tools + Selenium IDE)**

ID

Name

LinkText

Partial Link Text

Tag Name

Xpath

CSS

## 10. **Handling Form Controls**

Accessing Input box

Accessing Radio Buttons

Accessing Checkbox

Accessing Dropdown

Accessing Submit Buttons

Accessing Links

Accessing Calendar

Accessing Google auto suggest

## 11. **Handling Pop up and alerts**

## 12. **Handling Ajax Application with Example**

## 13. **Handling Events on a webpage**

## 14. **Actions**

1. Keyboard events
2. Mouse Events
15. **Finding Elements and Child Elements**
16. **Selenium Grid**
  - Introduction of selenium Grid
  - Installation and setup of Hub and node
  - Simple script execution using grid
  - Understanding Grid
  - Exercise on Selenium Grid
17. **Develop Hybrid Framework**
  1. Data Driven Concepts (Working with Excels)
  2. Page Object Model
  3. Object Repository Concept
  4. Test Execution
  5. Test Report Generation
  6. Continuous Integration
18. **TestNG**
19. **Hudson/Jenkins**
20. **Maven**
21. **Live Project Demo with the Framework Created**