

Deccansoft Software Services

(A Microsoft Learning Partner)

Selenium with C# Course Syllabus

Module 1: --Introduction to Automation Testing

In this module you learn about

- ❖ what is Automation testing
- ❖ Advantages of Automation testing
- ❖ Disadvantages of Automation testing

Module 2:--History of Selenium

In this module come to know complete history of selenium

Module 3:--Why Selenium tool

In this module you will learn importance of selenium

Module 4:--Differences between Selenium and other Tools

In this module you will learn difference between selenium and others tools

Module 5:--Different components in Selenium

In this module you will learn components in selenium, what is the importance of each component.

Module 6:--C# topics for Selenium

In this module you will learn basics of c sharp and OOPs concepts which will be integrated with selenium

- ❖ Introduction to C#
- ❖ Data types
- ❖ Control Statements
- ❖ Strings
- ❖ Arrays
- ❖ OOPS Concept
 - Class
 - Object
 - Constructor

- Encapsulation
- Inheritance
- Polymorphism
- Abstraction
- Interface

- ❖ Exception Handling
- ❖ Collections
- ❖ File Handling

Module 7:--Selenium IDE

In this module you will learn how to configure Selenium IDE and execution of script

- ❖ Installation and Introduction to IDE
- ❖ Creating first script using record and playback
- ❖ Installation of Inspector Tools and its Uses.
- ❖ Generating Scripts using different WebElement
- ❖ Handling Wait Commands
- ❖ Handling Validations Commands
- ❖ Handling Store Commands
- ❖ Limitations of IDE

Module 8:--Set Up Selenium with Visual Studio

In this module you will learn Installation of Visual Studio and how to configure Selenium with Visual Studio

- ❖ Download and Install Visual Studio
- ❖ Set Up Selenium with Visual Studio in C#
- ❖ How to write Selenium Test using NUnit Framework
- ❖ Running Test in Chrome browser
- ❖ Running Test in IE Explorer
- ❖ Internet Explorer Driver Server
- ❖ Challenges with IE browser in Selenium WebDriver

Module9:--Locators & XPath

In this module you will learn how to identify the Web Elements, Xpath how to inspect Xpath, creating xpath.

- ❖ Use Of Browser Inspector

- ❖ Firebug & Fire Path
- ❖ HTML Locators
- ❖ Element Locator for WebDriver
- ❖ XPath Helper Plug-in for Chrome
- ❖ Fire-IE-Selenium
- ❖ Effective XPath

Module 10:--Selenium WebDriver

In this module you will learn how to handle basic functionalities, How to write Selenium script and Debugging Script.

- ❖ First Program on selenium
- ❖ Verify Page title in Selenium Webdriver
- ❖ Navigation in selenium
- ❖ Radio button and Checkbox in Selenium Webdriver
- ❖ Handling DropDownList
- ❖ Handling File upload using Sikuli/Auto IT
- ❖ Handling Drag and Drop in Selenium
- ❖ Handling Mouse Hover
- ❖ Synchronization using webdriver
- ❖ How to take screenshot using selenium
- ❖ How to capture Error message using webdriver
- ❖ Handling Multiple windows
- ❖ Handling Alert Messages.
- ❖ Handling Frames.
- ❖ Cross Browsing using selenium
- ❖ Complete details of Dynamic XPath in Selenium
- ❖ Program on CSS in selenium
- ❖ How to download files in Selenium Webdriver.
- ❖ Handling WebTable
- ❖ How to use Logs File in selenium
- ❖ How to use Properties File in selenium

Module 11:--Switches Alerts & Windows

In this module you will learn handling multiple windows, popups, Alerts, waits, IFrams.

- ❖ Implicit Wait Commands in Selenium
- ❖ Explicit/Smart Wait Commands in Selenium
- ❖ Switch Commands in Selenium
- ❖ Different types of Alerts
- ❖ Handling Multiple Windows

- ❖ Handle Unexpected Alert
- ❖ Expected Condition Wait
- ❖ Handling IFrames using WebDriver
- ❖ Interacting with elements inside IFrame

Module 12:--Frameworks:

In this module you will learn importance of frame work why we need to use Framework

- ❖ What is Framework
- ❖ Types of Framework
- ❖ Use of Framework

Module 13:--Page Object Model Framework:

In this module you will learn how to create POM frame work using Nunit Frame work

- ❖ Page Object model using Nunit frame work