**Selenium Training**

**Introduction**

* What is automation testing?
* What is the use of automation testing?
* What we need to Automate?
* What is Selenium?
* Advantages of Selenium
* What is the difference between Selenium and QTP ?
* Different flavors of Selenium
* IDE
* Selenium-RC
* Selenium-Grid
* Selenium Web Driver/Selenium 2.0

**Selenium IDE**

* Installing Selenium IDE
* Selenium IDE icons
* Recording your first test with Selenium IDE
* IDE Context Menu
* Assert
* Verify
* Adding Selenium IDE comments
* Synchronization commands
* Working on pages with AJAX
* Storing elements
* Creating test suites
* What you cannot record

**LOCATORS**

* Tools to identify elements/objects
* Firebug
* IE Developer tools
* Google Chrome Developer tools
* Locating elements by ID
* Finding elements by name
* Finding elements by link text
* Finding elements by XPath
* Finding Elements by using CSS
* Summary

**Some Special IDE Commands**

* GoBack
* Refresh
* Enterkey simulation
* MouseOver
* Highlight
* Write your own Selenium IDE script without record and playback

**Selenium Remote Control**

* What is Selenium Remote Control
* Download selenium RC
* Installing selenium RC
* Starting selenium server from Command prompt
* Stopping selenium server from Command prompt and Browser
* Running selenium scripts/tests from Command prompt using selenium RC
* Report generation for selenium scripts

**Java Basics**

* Installing Java
* Installing Eclipse
* Features of Java
* Why Java for Selenium
* First Java program
* Data types in Java
* String class
* if statements
* Conditional and concatenation operators
* While Loop
* For Loops
* Practical Examples with loops
* Usage of loops in Selenium
* Creating Objects in Java
* Local Variables
* Global Variables
* Why is main method static?
* Constructors
* Concept of Inheritance
* Example on inheritance
* Interface
* Overloading and Overriding Functions
* Creating Packages
* Accessing modifiers Public, Private, Default, Protected
* Exception handling with try catch block
* Final and Finally
* Reading Properties File in Java
* Concept of jar file
* Log4j API for Logging
* Usage of Log4J in Selenium

**Selenium RC using Eclipse:**

* Set up Selenium RC in Eclipse using JUnit
* Starting Selenium RC from eclipse
* Stopping Selenium RC from eclipse
* Start and stop selenium RC from Selenium Script
* Converting Selenium IDE tests to a programming language(JAVA)
* Running Selenium script in Different Browsers with Eclipse and JUNIT.
* Writing Selenium tests from scratch using JUnitFrameWork
* JUNIT Annotations
* JUNIT Methods
* Frequently used Selenium commands
* Syntax of each command
* Test Suites using JUNIT
* Parameterized test cases using JUnit framework
* Report Using ANT Build and JUNIT

**Sample Programs in RC for:**

* Text box
* Link
* Button
* CheckBox
* Radio Button
* Drop Down Box
* Capture screen shot(positive)
* Capture screen shot(with failure)
* Page scroll down
* Handle alerts
* How to read values from excel sheet.
* Create a JUNIT suite.
* Reports
* Tool tip.
* Handling multiple windows.
* Selenium with regular expression.
* Handling https sites.

**TestNGFrameWork**

* How to Install TestNG plugin in Eclipse?
* TestNG sample script
* Writing Selenium testing script from scratch
* Creating Test suites using TestNG
* Reports generation using TestNG

**Selenium WEB-DRIVER**

* Why WebDriver?
* Downloading WebDriver Jars configuring in eclipse
* Architecture of selenium WebDriver
* Drivers for Firefox, IE, Chrome, iPhone, Android etc
* What is the difference between Selenium RC and WD?
* Sample programs in WebDriver
* Text box
* Link
* Button
* Checkbox
* Radio Button
* Drop Down Box
* Select value
* Display all values
* Select values step by step
* Capture screenshots
* Synchronization Commands In Web Driver
* Implicit wait
* Explicit wait
* Web Driver wait
* File uploads
* Handel on load alerts
* Keyboard actions
* Mouse actions
* Handling Iframes
* Handling multiple tabs
* Handling popups
* Handling Web Tables and Dynamic Web Tables
* Web Driver with TEST NG Frame Work
* Batch Running Test cases using TestNG
* Datadriven Framework with WebDriver
* XSLT Report Generation
* Database testing using Web Driver
* Overview of Flex and Flash
* User Defined Framework With Implementation

**Interview Questions on**

* Selenium IDE
* Selenium RC
* Selenium WebDriver and Automation Testing