

# Selenium Course Training Contents

## Selenium COURSE CONTENTS

### OVERVIEW OF SELENIUM

- Selenium Overview
- Selenium advantages over other tool
- Selenium Components
- Supported Browsers / Environment
- Flexibility and Extensibility

### RECORDING TESTS WITH SELENIUM IDE

- Introduction
- Installing the IDE
- Opening the IDE
- IDE Features
- Building Test Cases
- Running Test Cases
- Writing a Test Suit Using Base URL to Run Test Cases in Different Domains
- Debugging User Extensions

### SELENIUM COMMANDS

- Locating elements
- Verifying page elements
- Opening URLs
- Clicking on links
- Text patterns matching with regular expressions
- Checking checkboxes
- Entering text in input fields
- Selecting values in pull-downs
- Verifying application state
- Using variables
- Store Commands and Selenium variables
- Handling Alerts.Popups
- IFrame handling

### USAGE OF EXTERNAL TOOLS/ADDONS

- Usage of firebug to locate Page elements
- Usage of Debugbar to local page elements
- Usage of Xpather to get the xpath of an element

### CORE JAVA FUNDAMENTALS

- Keywords
- Data types
- Arrays
- Conditions
- Loops
- Class and Object
- Object Oriented Programming Techniques

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## INTRODUCTION TO JAVASCRIPT

- What is java script
- Why to choose Java script
- How to use java script in selenium

## INTERACTING WITH EXCEL

- Usage of the jxl
- Retrieving and updating the excel
- JXL API methods and its usage

## INTRODUCING JUNIT/TESTNG

- JUnit vs. Testing Framework usage in Selenium
- Using JUnit/Testing within Eclipse
- Test methods: test Method or @Test Method
- Assertions in Test Case
- Executing Tests
- Showing Test Results
- Reporting (XML and HTML)

## SELENIUM-RC

- Selenium-RC overview and how it works
- Setting up remote control
- Converting Selenese scripts to programs
- Learning the API
- Browser considerations and support
- Handling https and popups
- Server Options
- Architecture of Selenium
- Configuring to mutlitple environments
- Common problems

## SELENIUM-GRID

- Selenium-Grid overview
- Introduction to Ant and usage
- Configuring to the mutlitple Environments
- Developing and executing the scripts with Grid

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