



Professional Training Courses Test Automation using Selenium



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QAAgility Technologies

QA Agility through Innovation and Automation

QAAgility Technologies

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Test Automation using Selenium

Course Objectives

This course is designed to train the testing professionals with the basics of testing web applications using Selenium leading to advanced topics. Testers can build, enhance, and maintain scripts in the Eclipse IDE Editor and port Selenese scripts to execution in RC. The training is combination of theory as well as hands-on execution of scripts using the features of Selenium with ample time given to practice until you have mastered the concepts. The Selenium IDE plug-in builds effective and resilient test scripts using a wide variety of current programming languages. The focus is on the practical application of Selenium to resolve common web automated testing challenges. This course focuses on Selenium IDE with RC configuration and execution related concepts using JUnit and TestNG. There is an extensive coverage on Selenium Reporting mechanism in RC, Data Driven Testing, getting started Grid concepts and overview of the Bromine tests management tool.

Course Duration

2 days – 16 Hours



Additional Benefits

The courseware, tools configuration details shared in structured documentation and quick cheat-sheet as take-home.

Select participants get to work on in-house practice project

Placement assistance

Certificate of Completion

Continuous on the job technical assistance

Membership of India Testing Board (ITB) and seminars

Chance to participate in our “Incendescence Program”

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Course Content – Topics covered

The course would cover the following topics in the daily break-up provided below:

Day 1 – Selenium Basics	
Selenium Overview	(T+L) 4 hrs
Selenium IDE Introduction	
Installing Selenium IDE	
Running a simple test	
Installing useful Tools for writing test cases	
Creating Selenium Test Suite	
Clipboard and RC formats for Selenium IDE	
Installing new formats in IDE	
Quiz -1	
Lunch Break	30 mins
Quick Tour of Selenium IDE – Simple Feature	(T+L) 4 hrs
Quick Tour of Selenium IDE – Advanced Features	
Handling multiple windows and pop-ups	
Selenium Test Runner, DOM and XPath	
Selenium Test Commands, Selenium Core concepts	
Using JavaScript to extend the functionality of IDE	
Practice session	

Day 2 – Automation using Selenium	
Installation and configuration of Selenium RC with Eclipse (Java)	(T+L) 4 hrs
Using Selenium Remote Control with junit and TestNG	
Porting IDE scripts to RC server	
Frequently used Selenium commands	
Quiz -2	
Lunch Break	30 mins

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Reporting mechanism in Selenium IDE, RC and customized Logs	(T+L) 4 hrs
Data Driven Testing using Selenium RC	
Selenium Grid overview and Grid Architecture	
Overview of Bromine	
Practice Session	
Quiz -3	

Course Expectations

At the end of the course, you will be able to:

- ✓ Describe the function and purpose of Selenium
- ✓ Install and configure Selenium and other required tools
- ✓ Record automated scripts
- ✓ Play back automated scripts
- ✓ View and analyze results
- ✓ Modify scripts to extend the capability to test the application
- ✓ Configure Selenium Remote Control with Eclipse
- ✓ Run Selenium RC in regular and interactive mode
- ✓ Configure Selenium to work with jUnit and TestNG
- ✓ Work with most frequently used Selenium RC commands
- ✓ Have a working knowledge of Data Driven Framework using Selenium RC
- ✓ Have an overview of Selenium Grid, Bromine
- ✓ Have access to documentation on Selenium IDE Commands Cheat-sheet
- ✓ Have access to documentation on Selenium RC Commands Cheat-sheet

Intended Audience

- This basic course is designed primarily for the testing professionals who will be using the automation tools.
- Software testers who are seeking to automate the testing of web applications using Selenium.
- The testers who are new to test automation or even may be new to testing.

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- The audience might also include quality assurance practitioners, managers, or team leaders who are responsible for interacting with testers or who need to ensure that the tools are being implemented fully and appropriately.
- Other Test Automation Professionals who need to customize and enhance their automated tests using scripting.

Prerequisite

Working knowledge of:

- Windows
- Web sites and browsers
- Manual Testing concepts
- Some software development experience (recommended)
- General understanding of web-based applications (desired)



Lab Requirement

- Hardware Configuration: Pentium machines, min. RAM 512 MB, min. HDD space 480 MB
- Operating System: Windows XP 32-bit edition SP2
- Software: Selenium IDE, RC, Grid, MS Access

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- Internet connection

Delivery Method

Lectures and Exercises

Recommended Follow up Courses

- Advance Test Automaton using Selenium RC and Grid (2 days T+L)
- Selenium Test Management using Bromine (2 days T+L)
- Basic Quality Centre and Quick Test Professional ver. 9.2 (3 days T+L)
- Advance Quality Centre and Quick Test Professional ver. 9.2 Frameworks (3 days T+L)

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