
iSQI Selenium WebDriver Foundation

Duration: 3 Days Course Code: SII

Overview:

Selenium is the de facto standard for front-end test automation of modern web technologies due to the flexible and powerful browser automation capabilities of WebDriver.

The Selenium Tester Foundation is a practical training course aimed at test professionals who desire a basic understanding of Selenium WebDriver for creating web application tests. Participants will learn about factors to consider when deciding to automate testing as well as specific techniques for navigation, interacting with GUI elements, logging, reporting, and more. Upon the successful completion of the course, a participant will be able to create and run Selenium WebDriver tests without supervision.

This is a three-day course with time for the exam on the third day. It consists of equal parts lecture/ demonstrations and hands-on exercises. The certification exam is a 60 minute, 40 question, multiple-choice exam, and a pass is awarded for answering 65% of questions correctly.

Target Audience:

This course is ideal for automators and those who want to learn automation using the Selenium WebDriver toolset. While this course is accessible to anyone wanting to acquire a basic, hands-on knowledge of Selenium, the main audiences are: People with no test automation experience who are starting to automate in Selenium (or who want to get a job doing that) People with some GUI test automation experience who are new to Selenium or starting to automate in Selenium (or who want to get a job doing that) People with some non-GUI test automation experience who are new to Selenium and starting to automate in Selenium (or who want to get a job doing that)

Objectives:

- By the end of the course, attendees should be able to:
 - Implement Selenium WebDriver scripts that execute functional web application tests
 - Correctly apply test automation principles to build a maintainable test automation solution
 - Implement maintainable scripts
 - Choose and implement correct test automation tools
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Prerequisites:

Attendees should have general knowledge of basic programming and some knowledge of Python.

Testing and Certification

The course runs for three days, with one hour set aside on the third day for the Selenium Foundation exam if desired. The certification exam is a 60 minute, 40 question, multiple-choice exam. To attain the Selenium Foundation certification candidates must pass the A4Q Selenium Tester Foundation certification exam.

The exam shall be comprised of 40 multiple-choice questions. Each correct answer has a value of one point. A score of at least 65% (that is, 26 or more questions answered correctly) is required to pass the exam. The time allowed to take the exam is 60 minutes. If the candidate's native language is not the examination language, the candidate may be allowed an extra 25% (15 minutes) time.

Content:

Chapter 1. Test Automation Basics (105 Min)

- Explain the objectives, advantages, disadvantages and limitations of test automation
- Understand the relation between manual and automated tests
- Identify technical success factors of a test automation project
- Understand risks and benefits of using Selenium WebDriver
- Explain the place of Selenium WebDriver in TAA (Test Automation Architecture)
- Explain the reason and purpose for metric collection in automation
- Understand and can compare objectives of using Selenium toolset (WebDriver, Selenium Server, Selenium Grid)

Chapter 2. Internet Technologies for Test Automation of Web Applications (195 Min)

- Understand and can write HTML and XML documents
- Apply XPath to search XML documents
- Apply CSS locators to find elements of HTML documents

Chapter 3. Using Selenium WebDriver (495 Min)

- Use appropriate logging and reporting mechanisms
- Navigate to different URLs using WebDriver commands
- Change window context in web browsers using WebDriver commands
- Capture screenshots of web pages using WebDriver commands
- Locate GUI elements using various strategies
- Get state of GUI elements using WebDriver commands
- Interact with GUI elements using WebDriver commands
- Interact with user prompts in web browsers using WebDriver commands

Chapter 4. Preparing Maintainable Test Scripts (225 Min)

- Understand which factors support and affect maintainability of test scripts
- Use appropriate wait mechanisms
- Analyse GUI of a system under test (SUT) and use Page Objects to make its abstractions
- Analyse test scripts and apply Keyword Driven Testing principles to building test scripts

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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