

iSQI Certified Selenium WebDriver Foundation Tester

Overview 3 Day Course inc Exam

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.

Who is it for?

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)

Course Objectives

By the end of the course, attendees should be able to:

- Correctly apply test automation principles to build a maintainable test automation solution
- Choose and implement correct test automation tools
- Implement Selenium WebDriver scripts that execute functional web application tests
- Implement maintainable scripts

Course Outline

Chapter 1. Test Automation Basics

- 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

- 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

- 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

- 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