



Selenium Test Automation: From the Ground Up

- Understand the role and benefits of automation
- Learn the fundamentals of automating browsers with Selenium
- Learn how the principles of Object Oriented programming can be used to improve testing
- Understand how to apply automation to solving your testing challenges

Agile and automation are now playing an increasingly important role in the evolution of software development, and it's now more critical than ever for testing to keep pace with the shorter development cycles. Selenium is a popular open source browser automation tool which helps test teams increase the speed and quality of testing. This course provides those in testing and development roles the foundational skills required to leverage Selenium in order to write meaningful automated tests using sustainable methodologies.

Who Should Attend

This course is designed for those in software testing roles and developers interested in adopting test automation with Selenium. Attendees should have some familiarity with programming languages and concepts.

Course Prerequisites

- Some programming experience is required
- Suitable laptop with administrator privileges
- Installed Java JDK
- Installed IDE of your choice (IntelliJ or Eclipse)

This class will have pre-class instructions that involve downloading certain programs that will be needed for the hands-on exercises. These instructions will be provided to you after your registration is completed. If you have any concerns about the specific programs involved, please feel free to reach out to our [Client Support team](#)^[1].

Course Outline:

Introduction

Understanding the Web

What is the Domain Object Model (DOM)?

Anatomy of the DOM structure

Locating web elements

Exercise

WebDriver

Types of UI automation

WebDriver commands

Tooling

Record and Playback

Tooling Choices

Limitations

Troubleshooting and Debugging

Kantu

Exercise

Selenium

Selenium tools

Selenium WebDriver

Exercise

Advanced Selenium

Exercise

Selenified

What is Selenified?

Why use Selenified?

Exercise

Writing Effective Tests

Basic Selenium steps

Overall test automation best practices

Exercise

Mobile Web compatibility

Exercise

Parameterized Testing

Exercise

Separate Selenium class tips

Distributed Testing

Selenium Grid

Configuring Selenium Grid Node

Demonstration

Wrap Up

Additional resources

Class Schedule:

Sign-In/Registration 7:30 - 8:30 a.m.

Morning Session 8:30 a.m. - 12:00 p.m.

Lunch 12:00 - 1:00 p.m.

Afternoon Session 1:00 - 5:00 p.m.

Times represent the typical daily schedule. Please confirm your schedule at registration.

Course Fee Includes:

- Tuition
- Course notebook
- Letter of completion

Upcoming Dates:

Your Location
