

Advanced Selenium using Java | Level 3



Description

Advanced Selenium Using Java (Level 3) provides students with a solid understanding of practical automation concepts using Selenium, the WebDriver API, the Selenium server, and Selenium Grid to drive consistent functional and non-functional tests that are performed remotely and can be parallelized. Students will learn the core API, tools, and how to work with them together to create powerful testing harnesses.

Target Audience:

Intermediate and beyond level skills for Test Engineers, QA, and web developers with basic Selenium experience. Familiarity with Java syntax basics is required for this course.

Labs

Labs for this course are:

1. Install and Configure Maven
2. Using Maven
3. Introduction to Jenkins
4. Using WebDriver-Manager
5. Working with Selenium Grid
6. Parallelizing the Tests for Selenium Grid
7. Installing Docker
8. Creating a Docker Image
9. Selenium in Docker

Learning Objectives:

Working within an engaging, hands-on learning environment, attendees will explore:

- Explore Build Management techniques using Maven
- Install and use Maven to define all project artifact, project dependencies and plugins
- Discuss the need for Continuous integration
- The basics of the Jenkins automation server
- Setting up a Job, Maven, Unit tests and Selenium project
- Understand web page testing needs and how Selenium meets those needs
- Setup and run a Selenium Grid to run a set of Selenium tests
- Setup and run Selenium tests in parallel in a Selenium Grid
- Introduce Docker
- Run Selenium tests in a Docker container