



# Selenium Course Certification Training

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## About the Program

Intellipaats Selenium training class will make you an expert in Selenium architecture and Selenium 3.0 components. In this best online Selenium training course, you will master the automation testing framework for web applications, TDD, Selenium architecture, JaCoCo, TestNG, and Sikuli. You will work on multiple real-life projects and assignments with this certified Selenium Testing training.

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## About Intellipaat

Intellipaat is one of the leading e-learning training providers with more than 600,000 learners across 55+ countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

Our courses are delivered by subject matter experts from top MNCs, and our world-class pedagogy enables learners to quickly learn difficult topics in no time. Our 24/7 technical support and career services will help them jump-start their careers in their dream companies.

# Key Features



**45 HRS INSTRUCTOR-LED  
TRAINING**



**45 HRS SELF-PACED TRAINING**



**72 HRS REAL-TIME  
PROJECT WORK**



**LIFETIME ACCESS**



**24/7 TECHNICAL SUPPORT**



**INDUSTRY-RECOGNIZED  
CERTIFICATION**



**JOB ASSISTANCE THROUGH  
80+ CORPORATE TIE-UPS**



**FLEXIBLE SCHEDULING**

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# Career Support



## SESSIONS WITH INDUSTRY MENTORS

Attend sessions from top industry experts and get guidance on how to boost your career growth



## MOCK INTERVIEWS

Mock interviews to make you prepare for cracking interviews by top employers



## GUARANTEED INTERVIEWS & JOB SUPPORT

Get interviewed by our 400+ hiring partners



## RESUME PREPARATION

Get assistance in creating a world-class resume from our career services team



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## Why take up this course?

- Global software testing market to reach US\$50 billion by 2020 – NASSCOM
- Selenium supports more browsers and languages than any other testing tool
- A Selenium Tester in the United States can earn US\$87,000 – Indeed

Today, due to the ubiquity of software, testing is of prime importance. Selenium tool is used for automated testing. Intellipaate is offering a comprehensive training course in software automated testing using Selenium that is created by industry experts. Thus, taking up this training program will help you rise in your career rapidly.

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## Who should take up this course?

- Software Developers, Testers, and QA Engineers
- System Analysts, Administrators, and BI and ETL Professionals

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# Program Curriculum

## Selenium Training Course Content

- **CORE JAVA CONCEPTS**

- 1.1 Introduction to Java programming
- 1.2 Defining Java
- 1.3 Need for Java
- 1.4 Platform-independence in Java
- 1.5 Define JRE, JVM, and JDK
- 1.6 Important features and evolution of Java

- **WRITING JAVA PROGRAMS USING JAVA PRINCIPLES**

- 2.1 What is object-oriented programming?
- 2.2 The concept of abstraction, attributes, methods, constructors, inheritance, encapsulation, and polymorphism
- 2.3 Overview of coding
- 2.4 Setting up the required environment
- 2.5 Knowing the available IDEs
- 2.6 Writing a basic-level Java program
- 2.7 Defining a package
- 2.8 What are Java comments?
- 2.9 Understanding the concept of reserved words
- 2.10 Introduction to Java statements
- 2.11 What are Blocks in Java?
- 2.12 Classes and different methods

- **Getting started with Selenium**

- 3.1 Introduction to Selenium testing
- 3.2 Understanding the significance of automation testing
- 3.3 Benefits of Selenium automation testing
- 3.4 Comparison of Selenium and QuickTest Professional

- **Selenium Features**

- 4.1 Understanding the Selenium Integrated Development Environment

- 4.2 The concept of Selenium Remote Control

- 4.3 Working with Selenium Grid

- 4.4 Selenium Web Grid

- **Deep Dive into Selenium IDE**

- 5.1 Detailed understanding of the Selenium IDE features

- 5.2 Addition of script assertions

- 5.3 General Selenese commands

- 5.4 Deploying the first Selenium script and options

- 5.5 IDE Test Suite, sample project IDE, and recording a Selenium test case

- 5.6 Selenium limitations

- Hands-on Exercise - Record a test case and execute the first test case*

- **SELENIUM WEBDRIVER AUTOMATION**

- 6.1 The basic architecture of Selenium WebDriver

- 6.2 Download and installation

- 6.3 Creating a Java function and executing

- Hands-on Exercise: Install Selenium WebDriver*

- **FIRE PATH INSTALLATION**

- 7.1 Deploying WebDriver for scripting

- 7.2 Getting the HTML source of web, table, and form elements

- 7.3 Firebug extension and fire path installation

- Hands-on Exercise: Set up a grid*

- **SEARCHING ELEMENTS**

- 8.1 Locator and Locator-ID

- 8.2 Deploying searching elements using the link text and name

- 8.3 Using XPath

- 8.4 Searching elements using CSS and web element properties



***Hands-on Exercise:** Deploy searching elements using the link text, using name, using XPath, and search elements using CSS and web element properties*

- **ADVANCED USER INTERACTIONS AND CROSS BROWSER TESTING**

9.1 Working with advanced user interactions

9.2 Understanding various features such as drag-and-drop, double-click, keys, and context

9.3 Deploying cross browser testing using WebDriver and executing tests in Chrome and Firefox.

***Hands-on Exercise:** Deploy and execute a test case for Chrome and deploy and execute a test case for Firefox*

- **INTRODUCTION TO TESTNG PLUGIN**

10.1 Installation of TestNG plugin in Eclipse

10.2 TestNG sample script and understanding Selenium test script writing

10.3 TestNG test suites creation and HTML and XML report generation using TestNG

***Hands-on Exercise:** Install TestNG plugin in Eclipse, write a TestNG script and execute, generate an HTML report, and generate an XML report*

- **TESTNG TERMINOLOGY**

11.1 Annotations, parameters, and groups: Include and exclude

11.2 Test result and data providers

***Hands-on Exercise:** Mark annotation group test results*

- **TESTNG DATA PROVIDERS**

12.1 TestNG data providers

12.2 Screenshot of failed test cases

12.3 Wait statements of WebDriver

12.4 Wait in Selenium

12.5 Explicit wait and implicit wait

12.6 Fluent wait

12.7 Page load timeout

**Hands-on Exercise:** Capture the screenshot of a failed test case and set up wait timeout to wait for page load before resuming test execution

- **MAVEN INTEGRATION**

- 13.1 Introduction to Maven
- 13.2 Maven usage
- 13.3 Configuring Maven with Eclipse
- 13.4 Taking automatic updates
- 13.5 Running tests in Maven
- 13.6 Creating a POM.xml file
- 13.7 Maven integration tool

- **WEBDRIVER SAMPLE PROGRAMS**

- 14.1 Working with the text box, button, link, checkbox, drop-down, and radio button
- 14.2 Selecting and displaying values
- 14.3 Writing all values in Notepad/Excel/WordPad
- 14.4 Capturing a screenshot (positive)
- 14.5 On load alerts, scroll down the page in JavaScript
- 14.6 HTML unit driver
- 14.7 Managing multiple windows and AJAX auto suggestions
- 14.8 Managing web tables

**Hands-on Exercise:** Use text box, button, checkbox, drop-down, and radio buttons, display views, capture the screenshot, and manage web tables

- **JUNIT OPERATIONS AND TEST FRAMEWORK**

- 15.1 Annotations in JUNIT
- 15.2 Methods in JUNIT
- 15.3 JUNIT Test Suites
- 15.4 ANT Build and JUNIT reporting
- 15.5 Test framework, data-driven framework, keyword-driven framework, hybrid framework, and the execution of the test case from the test framework

**Hands-on Exercise:** Load an Excel file, execute a test case using a data-driven framework, and execute a test case using the keyword-driven framework

- **OBJECT REPOSITORY**

- 16.1 Understanding of object repository
- 16.2 Using OR in scripts
- 16.3 Learning sample scripts using object repository
- 16.4 Page object modeling
- 16.5 Page factory

***Hands-on Exercise*** – Use OR in scripts and implement POM

- **TEST DATA MANAGEMENT**

Test Data Management

***Hands-on Exercise*** – Load an Excel file, execute a test case using a data-driven framework, and execute a test case using a keyword-driven framework

- **SELENIUM GRID CONCEPT**

- 18.1 Selenium Grid overview
- 18.2 Executing single script in different browsers and different scripts in different browsers

***Hands-on Exercise:*** Set up a Grid

- **MOBILE APP TESTING USING APPIUM (SELF-PACED)**

- 19.1 UI Automator Framework in Appium
- 19.2 Locating elements in an Android app using UI Automator view
- 19.3 Automation testing for Android apps

***Hands-on Exercise*** – Write a test case using UI Automator for an Android app

- **IMPLEMENTING BDD FRAMEWORK USING CUCUMBER (SELF-PACED)**

Learning Objective: You will gain insights into the several concepts of Agile Testing, along with the benefits of the Agile environment for the BDD framework. Also, you will learn to use Gherkin and Cucumber to use Selenium to write BDD Acceptance Tests.

Topics:

- 20.1 Testing with Agile
- 20.2 Behavior-driven Development (BDD)
- 20.3 Pros and cons of BDD

20.4 Fundamentals of Cucumber

20.5 Cucumber Gherkin syntax

20.6 Cucumber feature file step definition

20.7 Cucumber benefits

20.8 Using Cucumber to implement BDD framework

*Hands-on: Implementation of BDD frameworks via Cucumber*

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## Project Work

### Selenium Projects Covered

#### **Automating the various tasks in aciTime**

In this project you will work on the various aspects of automating scenarios using POM, TestNG, Maven Integration with Extent Reports. You will deploy automation of various tasks like creating and deleting customers, creating and competing of projects, creating, deleting and completing of tasks.

#### **Testing an E-commerce site with Selenium**

In this Selenium project you will develop Page Object Model Framework and use it for buying a product on Flipkart. You will test the site for a search query like iPhone with the specific phone memory size requirement. The product will be added to the cart, ensuring shipping is done to the entered address and proceeding to the checkout page.

#### **JUnit Test Case**

In this project, It creates a JUnit unit test case which opens a site which is specified in the program such as www.google.com. It describes that how to integrate the JUnit test case with Ant tool. In this comparison is also defined between TestNG and JUnit

# Certification

After the completion of the course, you will get a certificate from IntelliPaat.



## CERTIFICATE OF COMPLETION

This certificate is awarded to

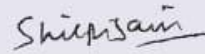
Your Name

Who has successfully completed

Course Name

Fulfilling all the requirements stipulated by IntelliPaat to achieve professional excellence.

Issued Date: Month XX, XXXX



Mrs. Shilpi Jain  
Director,  
intellipaate Software Solutions Pvt. Ltd.

VERIFIED  
CERTIFICATE

Certificate ID #94658291

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## Success Stories



### **Kevin K Wada**

Thank you very much for your top-class service. A special mention should be made for your patience in listening to my queries and giving me a solution, which was exactly what I was looking for. I am giving you a 10 on

10!



### **Sampson Basoah**

The Intellipaate team helped me in selecting the perfect course that suits my profile. The whole course was practically oriented, and the trainers are always ready to answer any question. I found this course to be impactful. Thank you.



### **Manjula R Nallamala**

I would like to thank the trainer and Intellipaate for providing such an impactful course experience to me. I am 100 percent satisfied with the online classes and the study material. They delivered everything they had promised. Great job, and thanks again.



### **Robin Jack**

This software testing automation with Selenium certification and training is the most practical and easy way to learn Selenium, covering all topics. If you want to enroll in a Selenium course, then Intellipaate is the institute that you should strongly consider.



### **Niharika Mittal**

This is a great way to learn Selenium automated testing. The best part is that the entire Selenium course is in line with the industry certification.

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# CONTACT US

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If you have any further queries or just want to have a conversation with us, then do call us.

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