

SELENIUM TRAINING CERTIFICATION COURSE



About IntelliPaat

IntelliPaat is a global online professional training provider. We are offering some of the most updated, industry-designed certification training programs in the domains of Big Data, Data Science & AI, Business Intelligence, Cloud, Blockchain, Database, Programming, Testing and 150 more technologies.

We help professionals make the right career decisions, choose the trainers with over a decade of industry experience, provide extensive hands-on projects, rigorously evaluate learner progress and offer industry-recognized certifications. We also assist corporate clients to upskill their workforce and keep them in sync with the changing technology and digital landscape.

About The Course

Intellipaate Selenium training institute helps you learn Selenium, one of the top automation testing tool. As part of the training, you will learn Selenium components like Selenium IDE, RC, WebDriver and Grid through hands-on projects and case studies.

 <p>Instructor Led Training</p> <p>45 Hrs of highly interactive instructor led training</p>	 <p>Self-Paced Training</p> <p>45 Hrs of Self-Paced sessions with Lifetime access</p>	 <p>Exercise and project work</p> <p>72 Hrs of real-time projects after every module</p>	 <p>Lifetime Access</p> <p>Lifetime access and free upgrade to latest version</p>
 <p>24x7 Support</p> <p>Lifetime 24*7 technical support and query resolution</p>	 <p>Get Certified</p> <p>Get global industry recognized certifications</p>	 <p>Job Assistance</p> <p>Job assistance through 80+ corporate tie-ups</p>	 <p>Flexi Scheduling</p> <p>Attend multiple batches for lifetime & stay updated.</p>

Why take this Course?

- **Global software testing market to reach \$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 \$87,000 – indeed.com**

Today due to the ubiquity of software, testing it is of prime importance. Selenium is the top tool used for automated testing. Intellipaate is offering a comprehensive training in software

automated testing using Selenium that has been created by industry experts. Thus, taking this training program will help you rise in your career rapidly.

Selenium Course Content

- Core Java Concepts
- Writing Java Programs using Java Principles
- Getting started with Selenium
- Selenium Web driver Automation
- Selenium Features
- Searching Elements
- Deep Dive into Selenium IDE
- Selenium Web driver Automation
- Fire Path Installation
- Searching Elements
- Advance User Interactions and Cross Browser Testing
- Introduction to TestNG Plugin
- TestNG Terminologies
- TestNg Data Providers
- Maven Integration
- Web Driver Sample Programs
- JUNIT Operations and Test Framework
- Object Repository

Selenium Course Content

- Test Data Management
- Selenium Grid Concept

Self Paced

- Mobile App Testing using Appium
- Implementing BDD Framework using Cucumber

Core Java Concepts

- ❖ 1.1 Introduction to Java Programming
- ❖ 1.2 Defining Java
- ❖ 1.3 Need for Java
- ❖ 1.4 Platform Independent 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 Define 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 Class 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 Quick Test 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:

- ❖ 1. Record a test case
- ❖ 2. Execute First test case

Selenium Web driver Automation

- ❖ 6.1 The basic Architecture of Selenium Web Driver
- ❖ 6.2 Download and installation
- ❖ 6.3 Creating a Java function and executing

Hands-on Exercise:

- ❖ 1. Install selenium web driver

Fire Path Installation

- ❖ 7.1 Deploying Web Drivers for scripting
- ❖ 7.2 Getting the HTML source of Web Element, Table and Form Elements
- ❖ 7.3 Firebug extension and Fire Path installation.

Hands-on Exercise:

- ❖ 1. 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:

- ❖ 1. Deploy searching elements using the link text
- ❖ 2. Using name
- ❖ 3. Using XPath
- ❖ 4. Search elements using CSS and Web Element Properties

Advance User Interactions and Cross Browser Testing

- ❖ 9.1 Working with Advanced User Interactions
- ❖ 9.2 Understanding the various features like Drag and Drop, Double Click, Keys and Context
- ❖ 9.3 Deploying Cross Browser Testing using Web Driver, Executing tests in Chrome, and Firefox.

Hands-on Exercise:

- ❖ 1. Deploy and execute a test case for Chrome
- ❖ 2. 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, understanding Selenium test scriptwriting
- ❖ 10.3 TestNG test suites creation, HTML and XML report generation using TestNG

Hands-on Exercise:

- ❖ 1. Install TestNG plugin in Eclipse
- ❖ 2. Write a TestNG script and execute
- ❖ 3. Generate an HTML report
- ❖ 4. Generate an XML report

TestNG Terminologies

- ❖ 11.1 Annotations, parameters, groups- include and exclude
- ❖ 11.2 Test result and data providers

Hands-on Exercise:

- ❖ 1. Mark annotation group test results

TestNg Data Providers

- ❖ 12.1 TestNg data providers
- ❖ 12.2 Screenshot on failed test cases
- ❖ 12.3 Wait statements of Web Driver
- ❖ 12.4 Wait in Selenium
- ❖ 12.5 Explicit wait and implicit wait
- ❖ 12.6 Fluent wait
- ❖ 12.7 PageLoad timeout

Hands-on Exercise:

- ❖ 1. Capture screenshot on a failed test case setup 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 POM.xml file
- ❖ 13.7 Maven Integration Tool

Web Driver Sample Programs

- ❖ 14.1 Learn to work with 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 screenshot (positive)
- ❖ 14.5 On Load Alerts, Scroll down page in JavaScript's
- ❖ 14.6 HTML Unit driver
- ❖ 14.7 Managing multiple windows and AJAX auto suggestions
- ❖ 14.8 Managing web tables

Hands-on Exercise:

- ❖ 1. Use text box, button, checkbox, drop-down, and radio buttons
- ❖ 2. Display views
- ❖ 3. Capture screenshot
- ❖ 4. 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, execution of test case from the test framework

Hands-on Exercise:

- ❖ 1. Load an excel file
- ❖ 2. Execute a test case using a data-driven framework
- ❖ 3. 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 –

- ❖ 1. Using OR in scripts
- ❖ 2. Implement POM

Test Data Management

- ❖ Test Data Management

Hands-on Exercise –

- ❖ 1. Load an excel file
- ❖ 2. Execute a test case using a data-driven framework
- ❖ 3. 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:

- ❖ 1. Set up a Grid

Self Paced

Mobile App Testing using Appium

- ❖ 19.1 UI Automator Framework in Appium
- ❖ 19.2 Locating elements in android app using UI Automatorview
- ❖ 19.3 Automation testing for android apps

Hands-on Exercise –

- ❖ 1. Write a test case using UI Automator for an android app

Implementing BDD Framework using Cucumber

- ❖ Learning Objective: 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 in order 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 Use Cucumber to implement BDD framework

Hands-on:

- ❖ 1. Implementation of BDD frameworks via Cucumber

Project Works

Selenium Projects

Project 1 : Automating the various tasks in aciTime

Topics : 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.

Project 2: Testing an ecommerce site with Selenium

Topics : 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..

Project 3 : JUnit Test Case

Objective : 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.

Job Assistance Program

Intellipaat is offering job assistance to all the learners who have completed the training. You should get a minimum of 60% marks in the qualifying exam to avail job assistance. Intellipaat has exclusive tie-ups with over 80 MNCs for placements.



Successfully finish the training

Get your resume updated

Start receiving interview calls

Intellipaat Alumni Working in Top Companies



Dinesh Kumar 

Solutions Consultant -Virtualization & Cloud at Microland Limited

The Intellipaat Azure AZ-100 training is in line with the new Microsoft Azure certification and the entire training is completely practical-oriented



Sarala Panda 

Cloud Architect at Amazon

I liked the way the trainer explained Azure concepts and simplified it to help us learn and grasp all the aspects of Azure administration. Thank you Intellipaat.



Sheelam Khan 

Senior Software Developer at Shopzilla

I could easily learn Azure thanks to insightful videos from Intellipaat. Any doubts that I had was promptly clarified by the support team. Keep it up Intellipaat.

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Frequently Asked Questions

Q 1. What is the criterion for availing the IntelliPaat job assistance program?

Ans. All IntelliPaat learners who have successfully completed the training post April 2017 are directly eligible for the IntelliPaat job assistance program.

Q 2. Which are the companies that I can get placed in?

Ans. We have exclusive tie-ups with MNCs like Ericsson, Cisco, Cognizant, Sony, Mu Sigma, Saint-Gobain, Standard Chartered, TCS, Genpact, Hexaware, and more. So you have the opportunity to get placed in these top global companies.

Q 3. Do I need to have prior industry experience for getting an interview call?

Ans. There is no need to have any prior industry experience for getting an interview call. In fact, the successful completion of the IntelliPaat certification training is equivalent to six months of industry experience. This is definitely an added advantage when you are attending an interview.

Q 4. If I don't get a job in the first attempt, can I get another chance?

Ans. Definitely, yes. Your resume will be in our database and we will circulate it to our MNC partners until you get a job. So there is no upper limit to the number of job interviews you can attend.

Q 5. Does IntelliPaat guarantee a job through its job assistance program?

Ans. IntelliPaat does not guarantee any job through the job assistance program. However, we will definitely offer you full assistance by circulating your resume among our affiliate partners.