



# **Selenium with Python Training Course**

Project Based Immersive Learning Course

## **Selenium with Python Training Course Overview**

Education Nest provides training in Selenium, which is considered to be one of the top automation testing tools. The training program offers hands-on experience and case studies to help you learn Selenium components such as Selenium IDE, RC, WebDriver and Grid. The course curriculum is designed to help you acquire proficiency in modules like control flow statements, object-oriented concepts in Python, exception handling, and more. This Selenium with Python training course has been developed by industry experts with over 12 years of experience. The program is structured in a simplified manner with every line of code being explained thoroughly to ensure your understanding. The trainer leading this program is highly skilled and will guide you through the key fundamentals of Selenium automation testing.

## **Benefits of Interviewing Skills Course:**

The IT industry is constantly evolving, and Selenium has become a popular domain in this field. The demand for competent testers is on the rise, and Selenium with Python Training can help you develop the necessary skills to become a master of the complete Selenium suite. With practical

sessions and hands-on experience, this training program will equip you with the knowledge and expertise required to excel in automation testing, thereby opening up new career opportunities for you. Many top global companies are actively hiring professionals who possess Selenium with Python skills. This training program is designed to provide you with job-oriented skills that are highly relevant to the industry.

## Who should learn?

- Computer Science Graduates
- Software Developers
- QA Engineers
- Automation testers
- System Analysts
- Administrators
- BI and ETL professionals
- Software testing professionals

## Why do you need Selenium with Python Training Course?

### Average Salary Growth:

Selenium with Python is expected to continue growing in popularity and importance in the IT industry. The average salary growth of Selenium with Python professional can vary depending on several factors such as years of experience, location, job role, company size, and industry. According to LinkedIn, there are more than 3,000 job opportunities related to Selenium in India. Also according to various sources, the average salary of Selenium with Python professional in the US can range from \$80,000 to \$130,000 per annum.

### Industries:

Selenium with Python is in high demand across various MNCs (Multinational Companies) worldwide, as it offers a powerful and effective way of automating web application testing. Many top global companies use Selenium with Python as their preferred tool for test automation, including Google, Facebook, Amazon, Microsoft, IBM, and many more. These

companies have a massive web presence and have to deal with a large number of web applications, making automation testing a crucial aspect of their software development process.

## **Position in Market:**

According to NASSCOM, the global software testing market is expected to attain a valuation of US\$50 billion in the near future. Also according to the US Bureau of Labor Statistics (BLS), the job outlook for software developers, including those with expertise in Selenium with Python, is projected to grow 22% from 2019 to 2029, which is much faster than the average for all occupations. This growth is due to the increasing demand for software and applications across various industries, which requires professionals with the necessary skills and expertise to develop and test them efficiently.

## **Designations:**

- Automation Test Engineer
- Selenium Tester
- Test Automation Developer
- Quality Assurance Analyst
- Software Development Engineer in Test (SDET)

## **Why Selenium with Python Training Course from Education Nest**

- **Free Demo on Request**
- **Live Interactive Learning**
- **Lifetime Access**
- **Flexible Schedules**
- **24x7 Support**

- **One on One Doubt Clearing**
- **Real Time Project-Based Learning**
- **Certificate Oriented Curriculum**

### **Key Skills Covered:**

- Locating by XPath
- Drag and drop
- Action Chains
- Chrome WebDriver
- Touch Actions
- Detailed instructions for Windows users
- Opera WebDriver
- Remote WebDriver Mobile
- Using Selenium with remote WebDriver

## **Selenium with Python Training Course Syllabus**

### **Module 1: (Introduction of Selenium with Python)**

- Why do we need Selenium?
- Selenium with Java vs. Python (pros and cons)
- History of Python
- About Scripting language
- Features of python
- Software installation and setting up Python Path.
- Python Editors.

## **Module 2: (Python Data structures and operation)**

- String
- List
- Tuple
- Dictionary
- Set

## **Module 3: (Control Statements and Loops)**

### **Conditional Statements**

- Simple If
- If-else
- if-else ladder
- Nested if-else

### **Looping Statements**

- for loop
- While loop

## **Module 4: (Functions)**

- About Functions
- Creating a Function
- Types of Arguments

## **Module 5: (Python Object Oriented Programming)**

- Class

- Object
- Constructor
- Self-Reference variable
- Inheritance
- Polymorphism

## **Module 6: (Exception Handling)**

- About Exception Handling
- Built-in Exceptions
- User defined Exceptions
- Usage Of Exceptions

## **Module 7: (Import Statements)**

- Importing Packages
- Direct Import
- Selective Import
- Import All

## **Module 8: (Introduction Selenium)**

- What Is selenium
- Advantages of selenium
- About Web Applications

## **Module 9: (Getting Started with Selenium Web driver)**

- Installing Python
- Installing Selenium Web driver
- About IDE [ Pycharm and Eclipse]

- Setup and Installing Editors.
- Installing Browsers.
- About Third party Drivers and Installation

## **Module 10: (Finding Page Element Objects)**

- About HTML and CSS.
- About Inspecting page Elements.
- Basic Example to Load Page using Web driver.
- About Selenium Locators.
- Find\_element\_Using ID attributes.
- Find\_element\_Using NAME attributes.
- Find\_element\_Using CLASS NAME attribute
- Find\_element\_Using TAG NAME attribute
- Find\_element\_Using LINK TEXT attribute
- Find\_element\_Using PARTIAL LINK TEXT attribute
- Find\_element\_Using CSS SELECTOR attribute
- Find\_element\_Using XPATH attribute

## **Module 11: (Selenium Web Driver Automation)**

- Installing Python
- What is Selenium WebDriver?
- Features of Selenium WebDriver
- Downloading and Installing Selenium WebDriver
- About IDE [ Pycharm and Eclipse]
- Setup and Installing Editors.
- Installing Browsers.
- About Third party Drivers and Installation.

## **Module 12: (Xpath Identification Techniques)**

- About Xpath
- About Absolute Xpath.
- About Relative Xpath.

## **Module 13: (Test case Creation)**

- Introduction about test case level frameworks.
- About the Unit test
- About Pytest
- About Selenium Web driver class.
- Example Test case creation.

## **Module 14: (Handling Web Page Object Elements)**

- Working with TextBoxes.
- Working with radio buttons.
- Working with buttons and checkboxes.
- Working with drop-down lists.
- Working with Tables.
- Working with alerts, Brower pop-ups, scroll up and down.
- Reading POP up text.

## **Module 15: (Handing Frames and Mouse Actions)**

- Introduction about Frames and mouse actions.
- About Action Chain class in selenium.
- Switching between frames.
- Drag and drop mouse actions.
- Different action chain class methods.



## **Module 16: (Test case validation Techniques)**

- About assert conditions.
- Assert Equal And Assert Not Equal.
- Capturing Screen shots

## **Module 17: (POM Framework)**

- About POM.
- About Package Creation and Classes creation.
- Re-usable method creation
- XL data [ Input DATA From XLs]
- Re-usable Variables for web elements.

## **Module 18: (Report Generation)**

- Html based report generation.
- Suite Level Reports.

## **Career Support**

### **Profile Building:**

Professionals with ample experience are accessible to provide personalized guidance in creating your CV and online profiles, considering your distinct educational and experiential history.

### **Interview Preparation:**

The upcoming interview preparation service will include personalized one-on-one sessions and the option for mock interviews if needed.

## **Job Referrals:**

At Education Nest, we receive a variety of job requirements from diverse sources such as organizations, our clients, HR consultants, and a vast network of Education Nest currently employed in different companies. We strive to meet these varied requirements to the best of our abilities.

## **Continuous Support:**

Our program provides ongoing support for as long as you require it, and a significant number of our participants have received multiple interview offers and promising employment opportunities as a result of the skills they have acquired through the program.