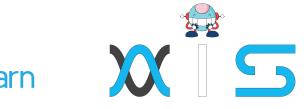


Selenium 3.0 Training





simpl_ilearn



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Program Overview:

Selenium 3.0 certification training course helps you gain an in-depth knowledge of concepts such as WebDriver, TestNG, Wait, Locating Techniques, AutolT, Sikuli, Page Object Design Pattern, mobile testing, and Selenium Grid. This Selenium 3.0 certification features real-world examples to train you to use Selenium WebDriver effectively.

Program Features:

- > 40 hours of instructor-led online training
- > Two real-life, industry-based projects

Delivery Mode:

Blended Learning

Prerequisites:

Basic knowledge of Core Java. This course starts with a refresher on Core Java, where basic concepts are explained.

Target Audience:

- > Test managers
- > Test engineers
- > Test leads
- > Test analysts
- > Quality assurance engineers
- > Software developers



Key Learning **Outcomes:**

This course will enable you to:

- > Revise the Core Java concepts that are essential for learning Selenium WebDriver
- > Understand the scope of test automation in DevOps and fundamentals of test automation
- > Create Test Cases using Selenium IDE Record and Playback tool
- > Understand Selenium WebDriver architecture and various layers of interaction
- > Set up WebDriver project in Eclipse and write test cases using TestNG
- > Locate elements using various locating techniques
- > Work with various WebDriver commands to drive web browser and WebElement commands to deal with various web components
- > Learn to handle various possible scenarios regarding pop-ups, multiple windows, frames, and taking screenshots
- > Implement page object design pattern and data-driven testing
- > Understand how to use Maven, ANT, AutoIT, Sikuli, log4j, and listeners
- > Learn to use Selenium Grid with TestNG for parallel execution
- > Execute a project from scratch by building an automation framework and automating a few test scenarios

Certification Details and Criteria:

Online Classroom:

- > Attend one complete batch
- > Submit at least one completed project
- Successful evaluation in any one of the course-end assessments with a minimum score of at least 60 percent



Course Curriculum:

Lesson 01 - Core Java Refresher

- > Keywords and Syntax
- > Variables, Operators, and Control Flows
- > OOPs Overview from Java Context
- > Exception Handling, File and DB handling
- > Collections Overview, and ArrayList example

Lesson 02 - Automation Basics

- > Fundamentals of Test Automation
- > ROI in Automation
- > Automation Framework
- > Various Tools and Comparison with Selenium

Lesson 03 - Introduction to Selenium WebDriver

- > What Selenium is and How it is Used in the Industry
- > Features of Selenium
- > Selenium IDE Overview with a Couple of Examples
- > WebDriver Architecture
- > Installation of Selenium and Supporting Tools/Frameworks

Lesson 04 - Locating Techniques

- > Simple WebDriver Program Demonstration
- > Basics of HTML Page, Tags, Attributes, and Visible Texts
- > Importance of Attributes in Locating Elements
- > Installation of Firebug and Firepath in Firefox Browser
- > Locators and Eight Locating Techniques
- > Creating Robust Locators Using CSS and XPath

Lesson 05 - WebDriver Basics - I

- > Execute Tests in Firefox, Chrome, and Internet Explorer
- > WebDriver Commands: Driving Browsers and Handling Cookies
- > WebElement Commands
- > Handling Various WebElements
- > WebDriver Timeout Methods



Lesson 06 - WebDriver Basics - II

- > Handling Multiple Elements Using findElements Method
- > Handling Alerts, Pop-ups, and Frames
- > Limitation of Implicit Wait and How Explicit Wait Helps
- > Advanced User Interactions
- > Taking Screenshots
- > Working with Firefox Profiles
- > Handling File Uploads Using AutoIT
- > Introduction to Flash Application Testing using Selenium WebDriver

Lesson 07 - TestNG

- > Arranging Tests in 3-As format
- > F.I.R.S.T Principles and SRP
- > Various Annotations in TestNG
- > TestNG Configuration File
- > Configuration Annotations
- > Attributes of @Test
- > Parallel Test Execution Capability
- > Assertion APIs
- > Passing Parameters to Tests
- > Configuring Test Suites
- > Reports Using TestNG
- > Reports Using ReportNG

Lesson 08 - WebDriver - Framework

- > Introduction to Various Frameworks
- > Page Object Design Pattern
- > Data-Driven Tests Using TestNG and POI
- > Introduction to Maven and ANT
- > Use of Log4j
- > Use of Listeners
- > Typical Components of a Framework
- > Overview of BDD, TDD
- > Overview of Sikuli Tool for UI Testing
- > Introduction to Jenkins
- > Configuring Jenkins to Invoke Selenium Tests



Lesson 09 - Selenium Grid

- > What is Selenium Grid?
- > When to Use Selenium Grid
- > Setting up Grid Hub and Nodes?
- > Configuring TestNG.xml to Run Tests on Grid

Lesson 10 - Project Execution

- > Automate an eCommerce Application
- > Test Automation Requirements Description
- > What Next? How to Start?
- > High-Level Framework
- > Configurability—No To Hard-Coding
- > Modularity-Re-Use And DRY
- > Test Data Management
- > Logging And Reporting

Lesson 11 - Mobile App Test Automation Using Appium

- > Introduction Mobile App Test Automation
- > Introduction to Appium
- > UIAutomator with Appium
- > Locating Elements UIAutomator Framework
- > DesiredCapabilities for Android

Course End Projects:

Project 1: Ethnic Store Project 1

Create an application that hosts a range of products from different manufacturers. This app needs to provide customers the ability to register and purchase various products.

Project 1: Ethnic Store Project 2

In this project, you will work on implementing the most common e-commerce application features that are typically found on any e-commerce website.



AIS

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Simplilearn

Tagged as the "World's #1 Online Bootcamp", Simplileam provides online education and in-house training for professional certification courses. Founded in 2010, Simplilearn offers more than 100 programs, helping professionals reach their learning potentials needed to work in the digital economy.

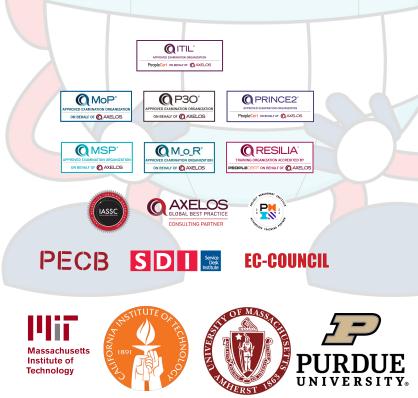
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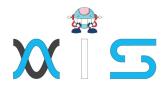


Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

Partners & Affiliates





The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.

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