



AUTOMATION TESTING INTENSIVE (ATI)

LEARN TEST AUTOMATION
WITH SELENIUM WEBDRIVER



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Tony Tang,
ATI Graduate

Automation Testing Intensive

This course is very insightful and really detailed where I could learn so many tools and techniques that are being used in the industry. I also received a continuous support of SKIVA consultants during my course. I have learned plenty of hands on tools and gained deep knowledge about automation and how to create the automation framework on my own from scratch.

Course Intro

Test Automation Intensive is an advanced Selenium Automation Training which will allow candidates to understand how test automation is done in a proper structured manner so that candidates are able to create and manage the selenium automation scripts from scratch and be confident building test cases based on a solid framework.

"It's Automation not Automagic. Test Automation is a Serious skill that can be gained with proper structure and disciplined effort. You cannot expect great things without great efforts."

Further, this course provides a comprehensive understanding and knowledge required to work with Selenium Webdriver as an automated functional testing tool for different environments and also takes your automation skills to the next level by learning to use Selenium along with Java. This course addresses topics such as Selenium Ecosystem.

TestNG usage with Selenium, developing scripts with Selenium Web Driver and JAVA, enhancing the scripts, Selenium commands, and understanding of how different frameworks work and how to build a

Course Outcomes

- ✓ Learn what is Test Automation and why and how to work on Test Automation
- ✓ Practically able to install all the tools and software for Test Automation
- ✓ Understand how WebDriver is used to prepare robust & reusable Test Cases
- ✓ Gain detailed understanding of the Web Automation Framework
- ✓ Be able to explain, design and implement Structured Automation Framework
- ✓ Lead any Selenium Automation Project on their own
- ✓ Have practical working knowledge of Selenium Webdriver API
- ✓ Have complete understanding of Selenium Ecosystem & Web Locators
- ✓ Learn continuous integration with JENKINS CI
- ✓ Learn build management with MAVEN
- ✓ Learn Version Control System with Git – Github



STUDENTS

Individuals Seeking an Entry-Level Automation Job

This course provides testers or developers or any individuals without test automation experience with a solid foundation in core concepts of test automation and different types of frameworks. On completion of the course, individuals will be able to work with the testing teams and in an agile environment with automation skills to build frameworks and begin the job search process with confidence.

Individuals Seeking to Progress in their Testing Career

Individuals currently fulfilling a role more focused on manual testing will gain the necessary skills and frameworks to focus further more on building automated test scripts and frameworks and having a more hands-on role in test automation which will enable them to work professionally in waterfall or agile environment with confidence. This will allow them to upgrade themselves to the higher up level role in test automation.

Individuals Embarking on a New Automation Project

Individuals looking to start their own freelancing projects or create a brand new automation framework will benefit massively from understanding how to get started from scratch on the automation projects and deliver massive solid value to the customer. Also, it will allow contractors to gain and pick up the automation skills to deliver better quality to the customers.



UNITS

UNIT 1 AUTOMATION BASICS

Module 1 : Introduction to Test Automation

Module 2 : Selenium - Installation of Tools & Software

Module 3 : Automation Record & Run

UNIT 2 CORE JAVA

Module 4 : Core Java for Selenium Automation

UNIT 3 SELENIUM WEB DRIVER

Module 5 : Selenium Webdriver - Basic

Module 6 : Selenium Webdriver - Advanced

Module 7 : Understanding TestNG & JUnit

Module 8 : Page Object Pattern & Page Factory

Module 9 : Log4j Framework - log4j

Module 10 : Mastering Selenium Automation Frameworks

UNIT 4 SELENIUM WEB DRIVER - ADVANCED AUTOMATION

Module 11 : MAVEN - Build Management Tool

Module 12 : Version Control with GIT - GitHub

Module 13 : Continuous Integration - with Jenkins CI Tool

Module 14 : Selenium Grid - (Cross Browser Testing)

Module 15 : Introduction of Cloud for testers

Module 16 : Introduction to Database for testers

Module 17 : Introduction to Web Services (optional)



COURSE CONTENT

UNIT 1 AUTOMATION BASICS

Module 1 : Introduction to Test Automation

- ✓ About Automation - What, Why & Where to apply
- ✓ Advantages of Test Automation
- ✓ Test Automation types - Functional & Non Functional
- ✓ SDLC & STLC vs Test Automation
- ✓ Test Driven Development (TDD)
- ✓ Understanding difference between BDD & ATDD
- ✓ Existing Tools and Technologies Comparison
- ✓ Learning the Selenium Eco System
- ✓ Understanding Selenium Flavors

Module 2 : Selenium - Installation of Tools & Software

- ✓ JAVA - JDK
- ✓ Eclipse IDE
- ✓ Console
- ✓ Junit / TestNg
- ✓ MAVEN
- ✓ Selenium WebDriver
- ✓ Selenium Grid
- ✓ Selenium Browser Plugins
- ✓ Git for Eclipse
- ✓ Git for Bash

Module 3 : Automation Record & Run

- ✓ Introduction to Record & Run
- ✓ Using Selenium IDE
- ✓ Using Advanced Plugins: iMacro
- ✓ Using Advanced Plugins: Ghost Inspector



COURSE CONTENT

UNIT 2 CORE JAVA

Module 4 : Core Java for Selenium Automation

- ✓ Installation of Eclipse (IDE for Java programs)
- ✓ Eclipse and JRE configurations
- ✓ Your First Hello World program
- ✓ Variables, Comments, Statements
- ✓ Java Classes, Data Types, Operators
- ✓ If - else Statement, Switch Case
- ✓ Arrays, Loops, Collections
- ✓ Constructions, Getters & Setters
- ✓ Exceptional Types and Handling
- ✓ Objects, Classes, Data Abstraction
- ✓ Encapsulation, Inheritance, Assertions, Annotations
- ✓ Strings, Date & Time, File Handling
- ✓ Interfaces, Abstract Classes, Logging, Regular Expressions

UNIT 3 SELENIUM WEB DRIVER

Module 5 : Selenium Webdriver - Basic

- ✓ Selenium Java Project Creation
- ✓ Selenium Maven Project Creation
- ✓ Working with Different Browsers
- ✓ Simple Browser Handling & Navigation
- ✓ Locator Techniques - All
 - XPath, Name, Class, ID, Links
 - Customized XPath, CSS Selector locators
- ✓ Working with Textbox, Radio buttons, Checkbox
- ✓ Working with Scrollbars & Dropdowns



COURSE CONTENT

UNIT 3 SELENIUM WEB DRIVER

Module 6 : Selenium Webdriver – Advanced

- ✓ Working with WebTables
- ✓ Mouse over & Other Mouse Event Handling
- ✓ Synchronization Techniques
- ✓ Capturing Screenshots - All including Failed Cases
- ✓ Handle Dynamic dropdowns with Webdriver API
- ✓ Handling Checkboxes with webdriver API
- ✓ Handling Radio Button dynamically
- ✓ Types of Alerts present and Methods to handle them

Module 7 : Understanding TestNG & JUnit

- ✓ Understanding basics of Junit
- ✓ Junit Vs TestNG - Features Pros & Cons
- ✓ What is TestNG & Learning Annotations
- ✓ TestNG Installation and Setup in Eclipse
- ✓ Disabling Enabling the Testcases and putting Timeout
- ✓ Importance of TestNG xml file
- ✓ Including and excluding the Test cases with TestNG xml file
- ✓ Parameterising from TestNG xml file
- ✓ DataProvider Annotation - Parameterizing Testcases

Module 8 : Page Object Pattern & Page Factory

- ✓ What is Page object model?
- ✓ Creating Page object Constructor in classes
- ✓ Object repository Mechanism
- ✓ Practical Exercise explaining Page Object Model
- ✓ Page object Factory and its advantages



COURSE CONTENT

UNIT 3 SELENIUM WEB DRIVER

Module 8 : Page Object Pattern & Page Factory

- ✓ Page factory annotations FindBy
- ✓ Practical Example explaining Page factory Model

Module 9 : Log4j Framework - log4j

- ✓ Log4j Explanation Theoretical Part
- ✓ Log4j Practical Exercises
- ✓ Log4j properties files

Module 10 : Mastering Selenium Automation Frameworks

- ✓ Introduction to Data Driven Framework
- ✓ Best Practices for Data Driven Framework
- ✓ How to write Global parameters with Java code
- ✓ Data driving parameterization from Properties file
- ✓ How to deal with Reusable Components
- ✓ Introduction to Keyword Driven Framework
- ✓ Introduction to Hybrid Framework

UNIT 4 SELENIUM WEB DRIVER - ADVANCED AUTOMATION

Module 11 : MAVEN - Build Management Tool

- ✓ What is Build Management tool?
- ✓ Installing & configuring Maven
- ✓ Understanding POM file
- ✓ Different Maven Commands to perform Test Execution
- ✓ Using MAVEN to Run Scripts through Continuous Integration



COURSE CONTENT

UNIT 4 SELENIUM WEB DRIVER - ADVANCED AUTOMATION

Module 12 : Version Control with GIT - GitHub

- ✓ Introduction to Version Control System
- ✓ Downloading and Installing GIT
- ✓ Installing GIT and Github plugins for Jenkins
- ✓ GIT bash commands and operations
- ✓ Uploading project to GIT using Git Bash
- ✓ Introduction to GitHub – Remote Repository

Module 13 : Continuous Integration - with Jenkins CI Tool

- ✓ Why Jenkins? And where it going to help us in Framework design?
- ✓ Installing & Configuring Jenkins with Java and MAVEN
- ✓ Creating Jenkins project and integrating Existing Framework
- ✓ Running the Framework and Scheduling it from Jenkins
- ✓ Exercises

Module 14 : Selenium Grid - (Cross Browser Testing)

- ✓ Introduction and Overview
- ✓ How to execute Selenium Tests Remotely
- ✓ Grid Concepts & Architecture
- ✓ Configuring Hub and Node -1
- ✓ Registering Nodes with Hub Server
- ✓ Desired Capabilities - Grid Program
- ✓ Execution Selenium scripts in Remote Machine
- ✓ Exercises



COURSE CONTENT

UNIT 4 SELENIUM WEB DRIVER - ADVANCED AUTOMATION

Module 15 : Introduction of Cloud for testers

- ✓ Cloud Testing Basics and Vendors which supports them
- ✓ Sauce Labs registration for Connectivity
- ✓ Desired Capabilities Concepts and Test code steps
- ✓ Running Selenium Test cases on Cloud
- ✓ Exercise

Module 16 : Introduction to Database for testers

- ✓ Steps to connect Database to Selenium Testcases
- ✓ Mysql download instructions
- ✓ Mysql server connection procedure
- ✓ Creating Database in mysql server
- ✓ Creating Tables in Databases
- ✓ Jdbc odbc connection overview

Module 17 : Introduction to Web Services (optional)

- ✓ What is Web Service
- ✓ SOAP and REST API
- ✓ How to test Web Services
- ✓ Introduction to SoapUI
- ✓ Demo of testing SOAP/REST API



FAQ

What is the maximum number of participants for a training?

Skiva batches normally consist of 5-6 students in a training class so that we can focus on individual student basis and can keep track of their progress throughout the training. For online training, it can be up to 10 students when more than one tutor is involved.

What will be your trainers like?

Skiva has very highly reputed and qualified trainers with huge industry experience. They will be able to share their experience in to the practical training where student will gain valuable experience while delivering training.

Do you provide any projects?

Skiva provides more than 75% of the training in a practical manner and as a part of the exercises and tutorial we also allow students to get involved in Live Projects where they can get practical understanding of working in ongoing projects.

Will I get hands on experience with tools?

At Skiva we work on the latest tools and technologies to provide clients with most required tools and techniques used in the industry. We allow our students to have hands-on experience on the tools so they can get the right skills in the training.

What are the modes of payment? Are there any installments?

Skiva accepts the payment from clients by credit and debit card. We also accept the payment via Paypal. Multiple Payment option are also available. Please inquire in detail by sending us an email at : info@skiva.com.au



**STILL HAVE
QUESTIONS?**

**WE ARE HERE TO HELP.
CONTACT US
NOW**



Skiva Solutions Pty. Ltd.

+61 1300 075 482
info@skiva.com.au
www.skiva.com.au