

Course Name: Test Automation Framework using Selenium

Overview:

The **4-day class-room training** program offers an opportunity to be trained by automation experts with more than a decade of experience in software testing. The training program aims to provide participants the practical skills and knowledge needed to build a Web Automation Framework from scratch. **All the practices and assignments are built around real time applications, e-commerce sites and major products while keeping industry best practices in mind.**

The real-working knowledge of Selenium combined with the provision of robust practice code and quick reference guide for future use, enables participants to begin automating their web applications immediately. Additionally, participants are provided with a **clear installation guide prior to the training** to assist them installing the required software before-hand so that they can derive maximum benefit out of their training time.

Course Structure:

Day-1	1. Selenium architecture and capabilities
	2. Java Essentials for Selenium
	a Data types and Variables b) Operators c) Methods
	3. Java Essentials for Selenium (continued.)
	d) Control flows and Loops e) String methods f) Class and Objects
	4. Apply Java concepts in Selenium test and hands-on
DAY-2	5. Selectors/Locators strategy
	a) Different elements types b) Selenium locators c) XPath - A detailed look
	6. Interact with different web elements
	a) Text box and buttons f) Screenshot b) Dropdown g) File upload c) Checkbox d) Alerts and pop-ups e) Frames and windows
	7. Project Assignment with clear steps
DAY-3	8. Debugging and exception handling

	<p>9. Create re-usable functions</p> <p>10. Interact with Excel - Data driven testing</p> <ul style="list-style-type: none"> • Learn how to parameterize data using Excel • TestNG data provider <p>11. TestNG Integration</p> <ul style="list-style-type: none"> • Annotation • Running test from TestNG xml • Set dependencies, group, parallel runs <p>12. Advance Java - Collections</p> <ul style="list-style-type: none"> ○ List ○ Set ○ Map
<p>DAY-4</p>	<p>13. Build your first web automation framework</p> <ul style="list-style-type: none"> • Build the framework from scratch • Understand framework components and project structure • Enhance it with additional components as per the need <p>14. Test Execution & Reporting</p> <ul style="list-style-type: none"> • Demo run • Framework hand-over in GitHub • Guidance on how to use this framework in your workplace • Project implementation