



ABOUT EZEL TECH TRAINING ACADEMY

Ezel Tech offers industry-focused technical training across domains like software development, cloud computing, cybersecurity, AI, and data analytics. With customized curriculums, hands-on learning, and expert-led sessions, both on-premise and virtual formats ensure flexibility. Post-training support and mentorship help professionals stay competitive and drive business success.

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EZEL TECH

Your IT Solutions Partner

COURSE NAME

Web Automation Testing Course

COURSE DETAILS

- ☒ **Duration - 30 Days**
- ☒ **Format - Lectures + Hands-on Practical Sessions**
- ☒ **Training Type – Classroom Training**

WHY LEARN AUTOMATION TESTING

- ☒ Faster Testing Cycles
- ☒ Improved Accuracy
- ☒ Enhanced Productivity
- ☒ Comprehensive Test Coverage
- ☒ Real-World Skills
- ☒ Cost Efficiency
- ☒ Career Advancement

KEY BENEFITS

- ☒ Speeds up testing processes and reduces human errors.
- ☒ Increases test coverage and enhances productivity.
- ☒ Teaches real-world tools and frameworks and saves time and cost.

WHO SHOULD ATTEND

- ☒ **DevOps Engineers / Test Engineers**
- ☒ **IT Professionals**

WEB AUTOMATION

MODULE 1 INTRODUCTION TO AUTOMATION

- Challenges in Manual Testing
- Overcoming Challenges with Automation
- Importance of Programming in Automation
- Introduction to Selenium
- Selenium Components
- Advantages and Disadvantages of Selenium WebDriver

MODULE 2: INTRODUCTION TO JAVA | JDK & ECLIPSE INSTALLATION | JAVA & SELENIUM

- Java and Eclipse Environment Setup
- Setting up Java Development Kit (JDK)
- Installing Eclipse IDE
- Configuring Java and Eclipse Environment
- How to Write Basic Java Program?
- Creating a Java Class
- Writing the First Java Program
- Compiling and Running Java Programs
- Understanding Console Output

MODULE 3: WORKING WITH JAVA VARIABLES AND DATA TYPES

- Java Variables and Data Types
- Declaring Variables in Java
- Primitive Data Types (int, float, double, char, boolean)
- Variable Naming Conventions
- Operators and Expressions
- Conditional Statements
- Loops & Jump Statements
- Arrays | Single & two dimensional
- Arrays | Coding Examples on Arrays
- Strings | String Methods

MODULE 4: JAVA OOPS CONCEPTS

- Class, Object & Methods
- Java Methods & Constructors
- Polymorphism & Encapsulation
- Usage of this and static keywords in Java
- Inheritance and Types of Inheritance in Java

- Method Overriding, final & super keywords in java
- Data Abstraction | Interface Concept in Java
- Wrapper Classes | Data Conversion | Packages | Access Modifiers
- Exception Handling in Java | Try..Catch..Finally Blocks
- Type Casting in Java | Up Casting & Down Casting in Java
- Collections in Java | ArrayList | HashSet | HashMap

MODULE 5: SELENIUM WITH JAVA

- Introduction & Environment Setup
- Locators(ID,Name,LinkText,PartialLinkText,Class&Tag)
- Locators - CSS Selector
- Locators - XPath | XPath Functions | XPath Types
- Locators - XPath Axes | SelectorsHub
- WebDriver Methods
- WebDriver Waiting Methods
- WebDriver Methods | Browser & Navigation Commands
- Handling Check Boxes, Different Types of Alerts
- Handling Frames/iFrames & Nested iFrames
- Handling Different Types of Drop-downs
- Handling Auto-suggest Dropdown & Static Web Table
- Handling Dynamic Pagination Web Table
- Handling Date Pickers
- Mouse Actions | Action Vs Actions
- Keyboard Actions | Sliders | Tabs & Windows
- JavascriptExecutor | Scrolling Pages | Upload Files
- Screenshots, Headless, SSL, Ad Block, Extensions
- Handling Broken Links, SVG Elements, Shadow DOM

MODULE 6: DATA DRIVEN TESTING

- WORKING WITH MS-EXCEL

MODULE 7: TESTNG

- Integration & Setup | @Test annotation
- Annotations | Types Of Assertions
- Dependency Methods | Grouping Tests
- DataProviders | Parallel Testing
- Listeners | Extent Report Generation
- Page Object Model Pattern

MODULE 8: HYBRID AUTOMATION FRAMEWORK

- PAGE OBJECT MODEL

MODULE 9: HYBRID FRAMEWORK

- Logs, Properties, Cross Browser
- Data Driven Tests | Apache POI
- Grouping Tests, Extent Reports
- Run Tests on Selenium Grid
- Docker Integration with SeleniumGrid
- Git & GitHub Workflow
- Jenkins CI Setup