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 -

Windows 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

- Overview of Windows UI Automation
- What is Microsoft UI Automation (UIA)?
- MS UIA vs. Other Windows Automation Tools (WinAppDriver, AutoIt, TestComplete)
- When to use UIA for Automation?
- UI Automation Architecture and Framework

MODULE 2: SETTING UP UI AUTOMATION ENVIRONMENT

- Installing necessary libraries (UIAutomationClient, UIAutomationTypes)
- Tools for Inspecting UI Elements:
    - Inspect.exe
    - UIA Verify
- Choosing the right programming language:
    - C# (UIAutomationClient.dll)

MODULE 3: LOCATING UI ELEMENTS

- AutomationElement Class Overview
- Identifying UI Elements:
    - AutomationId
    - Name
    - ClassName
    - ControlType
    - XPath-like Search for Elements
- Understanding Tree Structure of UI Elements
- Working with Parent-Child Relationships

MODULE 4: PERFORMING ACTIONS ON UI ELEMENTS

- Clicking Buttons, Checkboxes, and Radio Buttons
- Entering Text in Input Fields
- Handling Drop-downs and Lists
- Interacting with Windows Dialogs & Popups
- Handling Keyboard Inputs using SendKeys
- Mouse Actions (Hover, Click, Drag & Drop)

MODULE 5: HANDLING ADVANCED UI ELEMENTS

- Automating Dynamic & Custom Controls
- Handling Data Grids & Tables
- Automating Menu Items and Context Menus

- Working with Scrollbars & Sliders
- Managing Multiple Windows & Modal Dialogs
- Automating Desktop Notifications

MODULE 6: IMPLEMENTING UI AUTOMATION PATTERNS

- InvokePattern – Clicking Buttons
- ValuePattern – Entering Text
- SelectionPattern – Selecting Items in Lists
- ScrollPattern – Handling Scrollbars
- TogglePattern – Working with Checkboxes & Toggles
- ExpandCollapsePattern – Automating Tree Views
- WindowPattern – Managing Windows

MODULE 7: INTRODUCTION TO TESTCOMPLETE

- Overview of Test Automation
- Introduction to TestComplete
- TestComplete Editions & Licensing
- Installing and Setting Up TestComplete
- Understanding TestComplete IDE
- Supported Applications:
    - Web
    - Desktop
    - Mobile

MODULE 8: RECORD AND PLAYBACK IN TESTCOMPLETE

- Creating Your First Automated Test
- Recording & Replaying Tests
- Understanding Test Logs & Debugging
- Using Name Mapping (Object Repository)
- Editing Recorded Tests

MODULE 9: TESTCOMPLETE SCRIPTING BASICS

- Introduction to Supported Languages:
    - JavaScript
    - Python
    - VBScript
    - DelphiScript
- Writing Basic Scripts in TestComplete
- Running and Debugging Scripts
- Using the Code Editor in TestComplete

MODULE 10: OBJECT IDENTIFICATION IN TESTCOMPLETE

- Understanding Name Mapping & Aliases.
- Object Spy & Object Properties.
- Identifying Dynamic Elements.
- Using XPath & CSS Selectors.
- Handling Wait & Synchronization.

MODULE 11: TESTCOMPLETE CHECKPOINTS

- What Are Checkpoints?
- Creating Different Types of Checkpoints:
    - Property Checkpoint.
    - Image Checkpoint.
    - Table Checkpoint.
    - File Checkpoint.
    - Database Checkpoint.

MODULE 12: DATA-DRIVEN TESTING IN TESTCOMPLETE

- Introduction to Data-Driven Testing.
- Using External Data Sources:
    - Excel.
    - CSV.
    - Databases (SQL).
- Parameterizing Test Scripts.

MODULE 13: AUTOMATING DESKTOP APPLICATIONS

- Setting Up TestComplete for Windows Applications.
- Handling Windows Dialogs & Message Boxes.
- Automating Menus, Grids, and List Views.