

ONLINE FOUR-HOUR COURSE AGENDA

This course is targeted to individuals and teams starting with Test Studio. Prior UI automation experience isn't needed. This course walks attendees through the basics of Test Studio, automation test design and creation, and intermediate concepts necessary to creating a robust, maintainable set of powerful UI automation tests.

Attendees will leave this course with an understanding of how to get started writing UI functional automated scripts using Test Studio in their environments.

Segment 1: Introducing Test Studio

- The Test Studio IDE
- Creating your first project
 - Test project organization
- Recording your first test
 - Tips on recording
 - Handling JavaScript and other validations
- Test Lists
 - Static
 - Dynamic
- Test Automation Architecture & Design
 - Simplicity
 - Granularity
 - Accuracy
 - Maintainability

Segment 2: Web Application Testing

- Page loading lifecycle
- Document Object Model (DOM)
- Executing tests
 - Locating elements on the page
 - Locator/Find strategies
- Element Locators
 - Working with the Element Repository
 - Updating find logic
 - Working with dynamic content (AJAX)
- Handling operating system dialog boxes
 - Use Save as PDF from demo app
 - Record, replay in multiple browsers
 - Emphasize write once, run against different browsers which behave very differently for downloads
- Dealing with pop-up windows

Segment 3: Beyond the basics

- Setup and Teardown actions
 - Coded test steps
 - Introduction to backing API concepts
 - Abstraction. Emphasize each test doesn't (and SHOULDN'T) know how to do setup/teardown. Call something else that knows implementation.
 - Importance of using code for setup/teardown actions versus using the UI
- Test oracles
 - Verifying what's really true in the system
 - File system example
 - Database example
- Working with Tables – Flexible locators
 - Flexible Find logic example
 - Coded example
- Data Driving tests
- Conditional Logic with If Else
- Manual Tests

Segment 4: Wrapping it All Up

- Silverlight / WPF if time & interest
- Succeeding with tests over time
- Keeping tests maintainable
- Evolving your test suite
- Final Q&A

Prerequisites

There are no mandatory prerequisites for this course.
The following optional items may be helpful.

- Latest version of Test Studio installed
- Visual Studio with Test Studio extensions
- Some C# familiarity—**not required**