

QA

ADVANCED

5 DAYS

Mobile Automation Testing with Appium (C#)

Build a strong foundation in mobile automation testing using Appium with C# by understanding core principles and best practices. Learn how to set up the Appium environment, write and execute cross platform mobile tests, manage test data, and integrate Appium with testing frameworks for reliable mobile application testing.

Why Appium with C#?

Reliable mobile automation

Automate native, hybrid, and web apps with Appium and C#.

Faster release confidence

Run parallel and device-farm suites for critical flows.

Reusable frameworks

Apply POM-style design and data-driven patterns.

CI integration

Wire mobile suites into continuous delivery pipelines.

What you'll be able to do

- ✓ Gain a comprehensive understanding of the principles, benefits, and best practices of mobile automation testing.
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- ✓ Acquire the knowledge and skills to set up the Appium environment.
- ✓ Develop proficiency in writing automation scripts using C# and the Appium C# client library.
- ✓ Learn how to locate and interact with elements within mobile applications using various locator strategies.
- ✓ Explore strategies for managing test data in mobile automation testing and learn how to integrate Appium (C#) with popular test frameworks.
- ✓ Gain hands-on experience in executing Appium (C#) automation tests on real devices as well as emulators/simulators.

Who this is for

- Testers
- Automation Test Engineers
- Mobile App Developers
- Quality Assurance (QA) Engineers

Curriculum

01 Mobile Automation Foundations

- Apply mobile automation foundations using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

02 Appium Architecture and Setup

- Apply appium architecture and setup using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

03 Capabilities and Locators

- Apply capabilities and locators using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

04 Native, Hybrid, and Web

- Apply native, hybrid, and web using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

05 Gestures

- Apply gestures using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

06 Data-Driven Tests

- Apply data-driven tests using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

07 Reporting and Parallel

- Apply reporting and parallel using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

08 CI Integration

- Apply ci integration using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

09 Real Devices and Cloud Farms

- Apply real devices and cloud farms using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

10 Framework Design

- Apply framework design using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks

11 Debugging and Best Practices

- Apply debugging and best practices using Appium (C#) in practical test workflows
- Build and run hands-on exercises with realistic scenarios
- Validate results, logs, and failure signals
- Capture reusable patterns for team frameworks