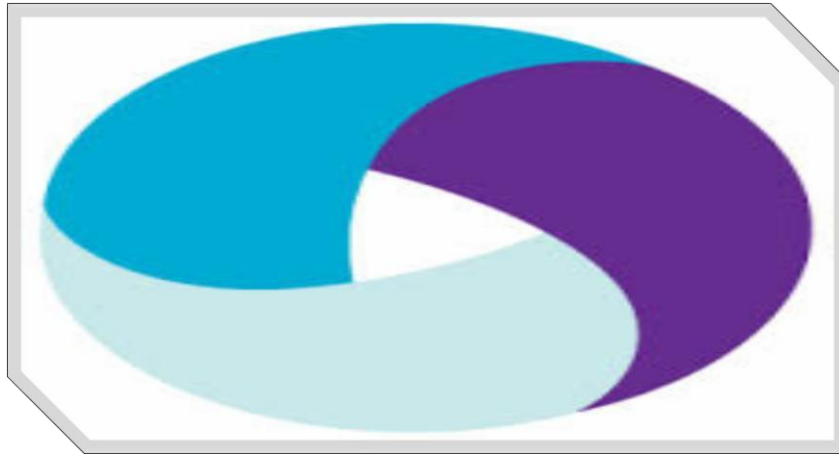# MOBILE APP AUTOMATION

## APPIUM



*We are ready to serve Latest Testing Trends, Are you ready to learn?*

## New Batches Info

*START DATE*          :

*TIMINGS*          :

*DURATION*          :

*TYPE OF BATCH*          :

*FEE*          :

*FACULTY NAME*          :

*LAB TIMINGS*          :

# APPIUM COURSE

**Contents**

## APPIUM Course Information:

### APPIUM

### 1) Introduction to Mobile Automation

- What is Mobile application testing?
- Introduction to Mobile Automation Testing
- Mobile automation tools

### 2) Introduction to Appium

- Why Appium?
- Introduction to Appium
- Difference between Appium & Selendroid
- Understanding Native, Web and Hybrid APPs
- Architecture of Appium

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**3) Appium Installation and Configuration on Windows**

- Installing JDK
- Installing the New SDK Tool Kit for Android
- Installing different API versions
- Download Appium
- Download eclipse
- Downloading the necessary JAR files
- Setting up an Eclipse Java project
- Starting Appium Server
- Connecting real device to USB and running ADB commands
- Understanding Desired Capabilities class
- Running your first Appium Program on Real devices
- Installing Android Emulators
- Running your first Appium Program on Emulator

**4) Finding elements for Android web-based apps**

- Opening browser on a Real Android Device
- Inspect element on a WebApp
- Inspect connected device on Chrome
- Locating Elements on a Chrome browser
- Finding Elements by ID, Name, ClassName, Link Text, Partial Link Text, XPath, CSS, TagName

**5) Web App Testing on Chrome Browser**

- Handling HTML Elements such as: Text box, Hyperlinks, Submit buttons, Radio buttons, Check boxes, Dropdown etc
- Synchronization
- Handling JavaScript Alerts
- Handling Frames
- Handling Auto complete
- Printing all links

**6) Finding elements for Android native apps**

- Finding Elements with Uiautomatorviewer
- Taking the Device screenshot
- Understanding the different locator tags
- Understanding the UISelector Class
- Finding Elements by ClassName
- Finding Elements by ids
- Finding Elements by Xpaths

## 7) Testing Android Native Apps on Windows

- Making a call with internal dialer application - Real Device
- Adding a new contact to the phone book - Real Device
- Sending SMS from a real device
- Working with Calculator
- Capturing screenshots
- Capturing screenshots on failure

## 8) Touch Actions and Events - Handling user gestures

- Drag and Drop
- Android Key Events
- Tapping an Element on a Real Device
- Swipe - Searching Phonebook Contacts
- Handling alerts, spinners (dropdowns), the switch button, and the slide seekBar

## 9) Testing Android Hybrid Apps

- Finding elements for hybrid apps
- Automating hybrid apps
- Switching to WebView / Native View through context

## 10) Appium Installation and Configuration on MAC

- Installing Java & configuring environment variables
- Installing Eclipse IDE for MAC
- Downloading Appium and Selenium Jars
- Android SDK Configuration
- Steps to get the Apple Developer id
- Install Xcode
- Creating simulator

## 11) Testing Native / Hybrid Apps on IOS

- Deploying the app using Xcode
- Running the Appium inspector
- Inspecting elements with appium inspector
- Generating xpaths with the help of inspector
- Handling elements
- Record and Play test
- Handling Alerts on a Native App
- Handling Date Wheel pickers

**12) Testing IOS WebApp on Safari browser**

- Finding elements for iOS web-based apps
- Useragent to get Safari Browser objects
- Safari Browser on Real IOS Device
- Configuring the SafariLauncher app to support testing on Real device

**13) TestNG Framework**

- How to Install TestNG plug-in in Eclipse
- TestNG sample script
- Writing Selenium testing script from scratch
- TestNG for parallel execution
- Creating Test suites using TestNG
- Reports generation using TestNG
- Running test suite on parameterized test cases
- Re-run failed test cases
- Running TestNG suites from command prompt

**14) Appium Mobile Grid**

- Introduction to Appium Grid
- Executing Test Parallely on two Real Devices

**15) Project Details**

➢ **Application overview**
1. Project Name
2. Project Description
3. Tools used in the project
4. Roles and Responsibilities

➢ **Automation process**
1. Automation life cycle
2. Identify test cases what to be automated
3. Authoring the scripts
4. Executing the scripts
5. Analyze the reports

**16) Appium Interview Questions**

## About Quality Thought

We are group of technical savviers who are dedicated to bring difference in the way people are trained in software tools & technologies. We focus on practical approach with well defined process & framework that perfectly transforms the academics to professionals. We believe in Practical Approach than Theoretical Approach.

## About Faculty

**Name of Faculty** : Madhu
**Years of Exp** : 8+ Years
**Designation** : Sr. Test Lead

➢ Currently Working as **Sr. Test Lead** with **CMMI Level 5** Company and having **8+** Years of Experience in Automation Testing (Selenium, Appium & Java)
➢ Mr. Madhu handled 65 + batches and trained 5,000+ Professionals from last 4 Yrs.
➢ He is the first faculty who is teaching **Live Project on Selenium & Appium** with JAVA & JMETER in Hyderabad.