

ATC-ASAM2: Android Intermediate

Course Code: ATC-ASAM2

Duration: 3 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

This course is intended for developers who are already familiar with java or kotlin app development, who wish to understand the capabilities of Android.

This course focuses more on Network programming, multithreading along with database and profiling tools. The features covered will include the tools you can use to create, test debug and package the android app.

SKILLS COVERED

Use and Understand Best Practices like Dependency Injection, Performance, Testing, Security along with good understating core developer topics like networking and multi-threading.

WHO SHOULD ATTEND?

Frontend Developers

PREREQUISITES

Participants are expected to previous coding experience in Java or Kotlin.

MODULES

Module 1: Core Development Topics

- Android App Bundles
- Activities
- Intents and Intent Filters
- UI & Navigation

- Animations & Transitions
- Images & Graphics
- Audio & Video
- Background Tasks
- App Data & Files
- User Data & Identity
- User Location
- Touch & Input
- Camera
- CameraX
- Sensors
- Connectivity
- Renderscript
- Web-Based Content

Module 2: Moving Forward with Your First App

- Build your first app
- Build an Interactive App
- Layouts
- Navigation
- Activity and fragment lifecycles
- Architecture components
- Databases and RecyclerView
- Connecting to the internet
- Repository
- Designing for everyone

Module 3: Advance Topics

- mem management
- network programming
- multi-thread
- runtime lib(reflection)
- DataStore
- Data Binding(MVVM Pattern)
- Routing
- NavigationPath(appRL, View navigation)
- DatabaseHelping(ORM pattern)
- profiling Tools

Module 4: Best Practices

- Dependency Injection
- Testing
- Performance
- Accessibility
- Security
- Closing and Remarks

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