



IntelliBitz Technologies (P) Ltd., 5/3, Baroda Second Street, West Mambalam, Chennai 600033.  
muthu.ramadoss@gmail.com <http://linkedin.com/in/tellibitz> +91 9840349914

## **Android Application Developer**

*The 5 day course would focus on Android application programming with an hands on show and tell approach by an industry expert working with Android since Nov 2007.*

**TRAINER:** Muthu Ramadoss <http://linkedin.com/in/tellibitz>

**Duration:** 5 Days

**Hours:** 10 am to 5 pm ( 1 – 2 pm Lunch break)

### ***Prerequisites***

- Programming experience in Java and Swing is a big plus, but not critical.

### **Software needed**

- Android SDK (1.0)
  - <http://code.google.com/android/download.html>
- Java Standard Development Kit (JDK™) version 5.0/6.0 ([download](#))
  - <http://java.sun.com/jse/downloads>
- If you already have installed JDK 5.0/6.0, you can skip this. (You can check it by typing "java -version" on terminal window.)
- Eclipse 3.4 Ganymede
  - <http://eclipse.org/downloads>
- Eclipse ADT Plugin (0.8)
  - <https://dl-ssl.google.com/android/eclipse/>
- ANT (1.7) for manual product development with non eclipse IDE's.

### **Infrastructure**

- Training Room with Individual PC's for Trainees with the required software fully loaded
- Projector for Training Slides
- Screen with good view for the Trainees and the Trainer
- Microphone for trainer and Speakers around the room

## **Android Application Developer**

<b>Session</b>	<b>Topics</b>	<b>Duration</b>
Day 1	<b>Forenoon : (10 am to 1 pm)</b> <b>Introduction</b> Android Anatomy and Physiology. What is Android? <b>Getting Started</b> Anatomy of an Android application. Application model. Application life cycle.	3 Hours
	<b>Afternoon : (2 pm to 5 pm)</b> <b>Developing Applications</b> Building Blocks. Implementing a UI. Storing and Retrieving data.	3 Hours
Day 2	<b>Forenoon : (10 am to 1 pm)</b> <b>Hands on Lab</b> Exercise 1: Construct a simple notes list that lets the user add new notes but not edit them. Demonstrates the basics of <b>ListActivity</b> and creating and handling menu options. Uses a SQLite database to store the notes.	3 Hours
	<b>Afternoon : (2 pm to 5 pm)</b> <b>Hands on Lab</b> Exercise 2: Add a second Activity to the application. Demonstrates constructing a new Activity, adding it to the Android manifest, passing data between the activities, and using more advanced screen layout. Also shows how to invoke another Activity to return a result, using <b>startActivityForResult()</b> . Exercise 3: Add handling of life-cycle events to the application, to let it maintain application state across the life cycle.	3 Hours

## **Android Application Developer**

Session	Topics	Duration
Day 3	<b>Forenoon : (10 am to 1 pm)</b> <b>Intents</b> Intents Resoulution. Services. Standard Intents, Categories and Actions. Broadcasting Intents. Starting Activities with Intents.	3 Hours
	<b>Afternoon : (2 pm to 5 pm)</b> <b>Hands on Lab</b> Running ApiDemos to demonstrate the capability of the Android platform and discussion on the common Android API's.	3 Hours
Day 4	<b>Forenoon : (10 am to 1 pm)</b> <b>AIDL</b> Services. Running Background tasks. Coding Remote Interfaces using AIDL. Step by Step details on writing and running Remote Service.	3 Hours
	<b>Afternoon : (2 pm to 5 pm)</b> <b>Content Providers</b> Sharing Data using Content Providers. Content URI and Authority. Rules to follow in creating custom Content Providers and publishing.	3 Hours
Day 5	<b>Forenoon : (10 am to 1 pm)</b> <b>Resources</b> Resources and Internationalization (i18n). Different kinds of Resources and their usage in an Android application.	3 Hours
	<b>Afternoon : (2 pm to 5 pm)</b> <b>Security Model</b> Controlling access to Android Components using Security Model. Advance Views and ViewGroups discussion. <b>FINAL</b> Summary of Android concepts and Building blocks.	3 Hours