

**Course Title:** **Intro. to Android Applications**

**Duration:** Three (3) Days

**Class Schedule:** 9:00am to 5:00pm

**Total Hours:** 21 Hours

**Prerequisites:** Java Programming

**Course Contents:**

Day 1:

1. Tools and Basics
  - Installing Android SDK, Prerequisites and Eclipse
  - Test Drive: Hello World
2. Ingredients of an Android Application
  - Activities, Intents, and Tasks
  - Other Android Components: Service, Content Providers, BroadcastReceiver
  - Static Application Resources and Context: Application Manifests, Source Tree
  - Component Life Cycles
  - Packaging Android Application

Day 2:

3. Effective Java for Android
  - Android Framework: Android Libraries and Extending Android
  - Android Framework
  - Building a View
  - Android GUI Architecture: Model, View, Controller
  - Wiring Up the Controller

Day 3:

4. Handling and Persisting Data
  - Overview Relational Database
  - SQLite and SQL Language
  - Android Database Classes
5. Using Content Providers
  - Understanding Content providers
  - Writing and integrating a Content provider
6. Visualizing Activity LifeCycle



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Optional:

7. Advanced Topics (can be optional or select few from below)
  - Multimedia: Audio, Video
  - Location and Mapping
  - Sensors, Speech, Gesture

