



Android _____ Android 5.0 Lollipop Application Development



- Covers a wide range of Android development topics.
- Provides essential lessons on various Android SDK libraries.
- Includes practical lab exercises for each lesson.
- Incorporates step-by-step guides to build real Android apps.

Android ATC

Android™ Application Development

Android 5.0 (Lollipop)

Course Code: AND-401

Hands-on Guide to Android Programming

Table of Contents

Lesson 1: Android Framework and Android Studio

Introduction.....	1-2
Android Software Layers.....	1-2
Android Libraries.....	1-4
Components of an Android Application	1-5
Application Life-cycle.....	1-7
Pre-requisites for Android Application Development.....	1-9
Android Studio.....	1-9
Gradle.....	1-10
Lab 1: Creating Your First Application.....	1-12

Lesson 2: Android SDK Tools and Activity Class

Android Project Structure	2-2
The Android Manifest File.....	2-4
Structure of the Manifest File	2-4
Android SDK Tools.....	2-5
Activity.....	2-12
Methods to Remember.....	2-17
Lab 2: Controlling a Camera's Flash Light.....	2-18

Lesson 3: Fragments, Views, and List View

Introduction.....	3-2
Fragments.....	3-2
Views.....	3-7
List Views and List Activity	3-10
Methods to remember	3-18
Lab 3: Creating a Simple To-Do List Application.....	3-19

Lesson 4: Intents and Intent filters

Introduction.....	4-2
Intents.....	4-2
Native Android Actions.....	4-4
Data Transfer	4-5
Intent to Call Activities	4-6
Register an IntentFilter.....	4-7
Methods to remember	4-10
Lab 4: Creating Contacts Selection Application.....	4-11

Lesson 5: Android Layouts and Custom Views

Introduction.....	5-2
Views	5-2
Layouts.....	5-2
Customized Views	5-8
Modify Existing Views	5-8
Lab 5: Custom View, Drawer Layout, and Fragments Application	5-16

Lesson 6: Android Resources, Themes, and Material Design

Introduction.....	6-2
Android Resources	6-2
Android Themes and Styles	6-7
Android Material Design.....	6-11
Methods to remember	6-13
Lab 6: A To-Do List Application in Material Design	6-14

Lesson 7: Android UI – Dialogs, Menus, and WebView

Introduction.....	7-2
User Interaction through Messages.....	7-2
Dialogs.....	7-2
Activities with Dialog Theme	7-8
Toasts.....	7-9
Menus.....	7-12
Context Menus	7-17
Additional Menu Item Options.....	7-18
Popup Menu.....	7-21
Web View	7-21
Methods to Remember.....	7-24
Lab 7: Wallpaper Application	7-25

Lesson 8: Android Storage and Background Processing

Android Storage Options.....	8-2
File I/O	8-2
Shared Preferences	8-3
Connecting to the internet.....	8-7
Background Processing.....	8-9
Lab 8: Quotes Provider Application.....	8-15

Lesson 9: Android Storage: SQLite and Content Providers

Introduction.....	9-2
Databases in Android.....	9-3
Content Providers.....	9-6
Native Android Content Providers	9-6
Custom Content Provider	9-7
Sync Adapters	9-12
Methods to Remember.....	9-16
Lab 9: SQLite Databases and Content Providers.....	9-17

Lesson 10: Android Notifications

Introduction.....	10-2
Creating a notification	10-2
Notification actions.....	10-3
Expandable Notifications.....	10-8
Notifications Layouts	10-9
Notification Priority	10-10
Notifications in Android 5.0 (Lollipop)	10-12
Lab 10: Implementing Android Notifications.....	10-14

This book can only be ordered in a hard copy format. The total price of the book including shipping and handling is 65 USD (Always delivered globally within 4 business days using express shipping).

[Click here to order now.](#)