



# Developing Mobile Applications with Android

## Course Outline



**SPARTAN**  
Allied Services

*Deliver Results - Create Value*

## Program Overview

The proliferation of Android devices has created strong demand for Android developers. Thousands of developers and organizations have made fortunes from creating applications on the Android platform. By embracing mobile technology, enterprises are now extending their reach of their applications. This Android training course will enable you to develop robust Android applications. By the end of this Android training course, you would have completed an Android application that will allow you to send SMS over the network using Android.

## Duration

4- Day Program

## Learning Objectives

At the end of this training, participants should be able to understand:

- Effectively build professional mobile business applications using Java and the Android SDK
- Create intuitive, reliable software using activities, services and intents
- Design engaging user Interfaces that work seamlessly with a range of phones
- Store and retrieve data with content providers and the SQLite database
- Integrate Android applications with enterprise systems

## Target Audience

- Those wanting to develop mobile applications using the Android platform. Java programming knowledge and experience at the level of Course 321 - Comprehensive Introduction to Java Programming is assumed. Participants are encouraged to bring an Android-based phone to test the exercises.

## Program Structure and Outline

- Introduction to Android
  - What is Android?
  - The Dalvik Virtual Machine
  - Android Application Components
  - Installing the SDK
  - "Hello World" QuickStart
  - Android Resources
  - Debugging in Android
- Android User Interface
  - Creating Toast Messages
  - Creating an Android UI

- Using Common Android Views
- Using Common Android Layouts
- Handling Events
- Changing the Application's Icon
- Adding UI Graphics and Colors
- Creating Lists and Adapters
- Creating Application Menus
  
- Activities and Intents
  - Activities
  - Activity Lifecycle
  - Intents
  - Context and Application
  - Starting an Activity
  - Returning Results from Activities
  
- Threads, Services, Broadcast Receivers and Alerts
  - Threads
  - Services
  - Alerts
  - Broadcast Receivers
  - Handler
  - AsyncTask
  
- Networking and SMS
  - Accessing Web Content
  - Sending an SMS
  
- Data Storage
  - Shared Preferences
  - Preferences Framework
  - SQLite
  - Content Providers

## Why Choose SAS Management Inc.

### We Deliver Results

SAS Management Inc. has consistently proven its capability to deliver and exceed our clients' expectations. We are the only PEOPLECERT® Accredited Training Organization (ATO) in the Philippines. Our pool of consultants and trainers are seasoned industry veterans who have above average qualifications and certifications such as Business Management, Process Improvement, and Organizational Development Programs.

### We Create Value

SAS Management Inc. believes in ensuring that our services meet the intended needs of our clients. To us, it is more than just providing training and consulting but rather ensuring that these are the things that our clients really need. This is why SAS Management Inc. is probably the only training provider that does a thorough needs assessment prior to providing a proposal. Our goal for every proposal is to CREATE VALUE for your organization.

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