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Android Development
Innovative mobile development

Android Application Development



IT Enabler Consultancy is the appointed Authorised Training Center for Android Course - Android Application Development Course in Singapore.

Course Objective:

This is a 5-day (35-hours) course that provides the required knowledge and skills to design and build a complete Android™ application. It delivers an extensive training on the main Android API components and its interactions.

At course completion, the participant will be able to:

- Understand basics of Java programming language and object oriented programming (OOP) concepts required for the development of Android applications Design and build a complete Android application.
- Debug and maintain Android applications using different tools and plugins.
- Thoroughly understand the life-cycle of an Android application and its main components.
- Use external resources, manifest files, intents and adapters
- Developing Android Network Connection and File I/O.
- Understand and use all Android persistent storage techniques: Preferences, files, databases, and content providers.
- Connecting, Saving and Retrieving Data using Android Storage: SQLite,
- Use Android's background processing techniques.
- Publishing Android Application to Google PlayStore

Course Prerequisite:

Previous knowledge and experience of any programming language is considered sufficient.

Training Methodology & Materials:

- Practical hands-on sessions latest Android Studio version 3.x
- 1 person to 1 computer with great CPU processing power.
- Well-designed tutorial sessions and screen capture to enhance further understanding of the courseware.

Training Duration:

Full-time: 5 Weekdays / 5 Sats
Time : 9.30am – 5.30pm

Certificate Of Attendance:

Certificate Of Attendance will be awarded to participants completing the course achieving minimum 75% attendance.

Course Training Fee :

Normal Fee : S\$1500
Regn Fee : S\$50
Exam Fee (Optional) : S\$305 (includes S\$80 Exam Proctor Fee)

All fees subject to GST 7%.

Call us @ 6333-4843 to check on latest promotion fee.

Course eligible for SDF Grants. Self-Sponsored may use their SkillsFuture Credit Claim.

DETAILED COURSE OUTLINE

Lesson 1: Java Programming for Android

- Java Basics
- Java Datatypes
- Object Oriented Programming and Inheritance
- Debugging Java Programmes

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<p>Lesson 2: Android Framework and Android Studio</p> <ul style="list-style-type: none"> • Creating an Android Project • Android Studio and Gradle • From Command line • Running Your Application • Running your project on the emulator • Components of an Android application • Application Life-cycle • Modifying created project • Change activity's name <p>Lesson 3: Android SDK Tools and Activity Class</p> <ul style="list-style-type: none"> • Android Software Layers • Linux kernel • C/C++ Libraries • Android Runtime • Application Framework • Additional Menu Item options • Checkboxes and Radio Buttons • Menu Item Click Listener • WebView <p>Lesson 4: Fragment, ListActivity and ListView</p> <ul style="list-style-type: none"> • Introduction to Fragments • Using Views • Adding a View to your application • List Views and List Activity • Using a ListActivity • Adding ListView • Add Event to List Items <p>Lesson 5: Intents and Intent filters</p> <ul style="list-style-type: none"> • Introduction • Intents • Explicit Intents • Implicit Intents • Native Android Actions • Data Transfer • Intent to Call Activities • Direct calls • Sub-activities: Calling Activities for Results • Register an IntentFilter <p>Lesson 6: Android Layout and Custom Views</p> <ul style="list-style-type: none"> • Introduction • Different Uses of Customized Views • Modify Existing Views • Step by Step • What is in onDraw() • The full picture 	<p>Lesson 7: Android Resources, Themes and Material Design</p> <ul style="list-style-type: none"> • Android Resources • Android Themes and Styles • Android Material Design <p>Lesson 8: Dialogs, Toasts, Menus, and WebView</p> <ul style="list-style-type: none"> • Dialogs and Dialog sub-classes • Creating dialogs with user-defined layout • Activities with Dialog Theme • Toasts • Menus • Building a menu from Java code • Building a menu from a resource file • Handle Select Events • Sub-menus • Context Menus • Handling Context Menu Selection <p>Lesson 9: Android Storage: Network, File I/O, and SharedPreferences</p> <ul style="list-style-type: none"> • Android Storage Options • Shared Preferences • Internal Storage and File I/Os • Network Connection • Connecting to the internet • Including files as resources • Retrieving Shared Preferences • Background processing - Using AsyncTask <p>Lesson 10: Android Storage: SQLite and Content Providers</p> <ul style="list-style-type: none"> • SQLite in your application • SQLite library • SQLiteOpenHelper • SQLiteDatabase • Cursors • Databases in Android • Native Android Content Providers • Custom Content Providers • Sync Adapters <p>Lesson 11: Android Notifications</p> <ul style="list-style-type: none"> • Creating a notification • Notification actions • Expandable notifications • Notifications Layout • Notifications in Android 5.0(Lollipop) • Example: NotificationManager <p>Lesson 12: Publishing Android Application</p> <ul style="list-style-type: none"> • Preparing for Publishing • Digital Signing and Version Control • Deploying Android APK Files • Publishing on the Android Market
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