



Shaping Talents



Shaping Future

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Become a Certified  
Technology Expert



**ANDROID  
APP DEVELOPMENT  
TRAINING**

## Android App Development Training

### About EnhanceLearn

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EnhanceLearn offers you a complete career transition by providing training and placement programs for Students and Jobseekers looking for a Career Success. We provide best IT training and certification courses which is taken by professional certified experts. The training modules are designed as per the market requirement so that it helps student to conquer the Career Job Market and achieve their career goals with our placement assistance.



### About the Android Training Course

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Android Training Course will help you gain knowledge and learn to work with the Android platform and mobile app development. In this training, you will learn to develop Android applications using Java and Eclipse environment. Get to learn Android Architecture and components, Android Services, Content Provider Google Maps, Geo Coding and Location Tracking, Multimedia & Animation, Event Handling and work with Android Studio, SQLite DB, etc. Our experienced android trainers will train you to develop, design android app, and work on google play store. Get trained by EnhanceLearn to become a certified App Developer as an Android professional.

### Why Take Android Training Course?

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With Android phones being produced by all of the major phone manufacturers and with the addition of new tablet devices, it's no surprise that the Android platform is the fastest growing mobile development platform in the world.

Having an expertise in Android App Development can make you into the league of earning high salaries.

With the high growth in mobile applications and mobile development industry, the demand of android app development professionals are increasing landing with more job opportunities.

Future career scope of mobile app development is very high and will continue increasing. Fast-track your career to take on more lucrative job roles and take your career to the next level.

If you are interested in joining EnhanceLearn's best Training and Placement Program team, please reach our team here:

# Android App Development Training

## Course Content:

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### Module 1: Introduction to Android Development Platform

- Introduction to App Market
- Introduction to Android Operating System
- History of Android
- Versions of Android
- Android features
- Android Architecture
- Setting up development environment, Mobile Application Development
- Android Development Environment
- Dalvik, Virtual Machine & .apk file extension
- Application Building Blocks
- Android Installation
- Java & JDK, Eclipse IDE, Android SDK
- Eclipse, ADT, Plugin
- Creating Android Virtual Device

### Module 2: Setup of Android Development Environment

- System Requirements, R.java, Android Manifest file
- Java, Eclipse and Android SDK Installation
- Android SDK & Tools
- Android Virtual Devices & Device Definitions
- Toast Notifications, Localization
- Supporting Multiple Screens & Devices

### Module 3: Android component, Layout Design & Event Handling

- Learning about the various components of Android
- Application Lifecycle
- Android Manifest
- Android resources, dimension, image and colour resources
- Resource reference syntax
- Studying Android View and View Group

- Card View, Web View, Grid View, Gallery View, RecyclerView
- The concept of Android buttons, check box, radio button.
- Selection Components
- Adapters
- Tabhost
- Drawer Layout
- Canvas & Paint
- Progress Bar

### Module 4: Layout Manager and Styles

- Introduction to Android layout manager
- Various Layouts like
  - Linear Layout
  - Relative Layout
  - Frame Layout
  - Absolute Layout
- Styles
- Themes
- Custom Themes
- Date & Time Pickers

### Module 5: Understanding Intents and Intent Filters

- Introduction to Android intents
- The implicit and explicit intents
- Learning about built-in intent actions
- Intent-matching rules
- Invoking of activity
- Data passing
- Learning about pending intents
- Role of filters

### Module 6: Menus

- An overview of Android menus
- Creation and deployment of menus
- Responding to menus through listeners and options item selected
- Deploying sub menus, working with context menus
- Using xml files for menu creation
- Responding to such menus
- XML menu resource file inflating
- Response to XML-based menu.

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## Module 7: Broadcast Receiver & Notification

- Android broadcast receiver
- Creating, registering and implementing a broadcast receiver
- Broadcast receiver usage patterns
- Deploying Broadcast() method for broadcasting message
- Broadcast message listening
- Using manifest file for registering a receiver
- Understanding Android notification
- Creation of notification and working with context menu.
- Filters in dynamic Broadcast Receivers
- Registering a broadcast receiver programmatically

## Module 8: User Interfaces (UI)

- Creating the Activity, Tabbed Activities
- XML versus Java UI, Create activity layouts programmatically
- Adapters, Menus and Dialogs, and Navigation Drawer
- Selection Widgets, Using fonts, Animations
- Common UI components, and Complex UI components
- Handling UI events, Testing and optimizing UI

## Module 9: Android Services

- Understanding how services work in Android
- Service Life Cycle
- Declaring a service, and Registering a service
- Starting and stopping a service
- Types of services
  - Bound and unbound services
  - Remote and local services
- Creation of service in Android.
- Threads and other concurrency considerations with services

## Module 10: Preference Management

- Understanding the Android preference management
- Introduction to preference manager
- Creation and working with preferences
- The most common shared preferences
- Reading of preference values
- Saving and retrieving preference using code.

## Module 11: Storing and Retrieving Data - SQLite DB

- Android File System
- Storage Model selection criteria
- Internal storage, External storage
- Introduction to SQLite database and SQLiteOpenHelper
- Database creation using SQL Helper
- Opening and closing a database
- Working with cursors, Inserts, updates, and deletes
- Working with cursors and records – creating, updating, reading and deleting records

## Module 12: Content Provider

- Learning about content providers and its concepts
- Searching for content, Adding, changing, and removing content
- Storing data in Android
- Content provider types
- Custom Content Provider classes
- Native Android Content Providers
- Creation of content provider.
- Publishing content providers
- Accessing Contact Book, Calendar

## Module 13: Google Maps

- Introduction to Android location framework
- Integrating Google Maps into application
- Steps for Google Maps API V2

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## Module 14: Geo Coding and Location Tracking

- Android location-based services
- Using Location Manager, Location Provider, GPS and Network based tracking
- geo-location and location API
- extracting the location using GPS
- Location Listeners and Proximity Alerts
- registering for location listener
- Adding permissions to manifest file.
- Simulation of the locations on the active device
- Registrations in the manifest file, Adding Markers, Circles, Polylines
- Google Map, Camera Positions, Google Maps Directions API

## Module 15: Hardware Components

- Learning about Android hardware component integration into applications
- Sensors
- working with sensor manager
- camera applications
- Customizing Camera & Capturing Photos
- Bluetooth
  - Controlling local Bluetooth device
  - Discovering and bonding with Bluetooth devices
  - Managing Bluetooth connections
  - Communicating with Bluetooth
- Wi-Fi integration

## Module 16: Telephony and SMS

- Understanding the services of telephony and SMS
- Accessing telephony information
- Monitoring data activity and connectivity
- Working with messaging SMS
- Deploying it into Android applications.
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## Module 17: Multimedia & Animation

- Introduction to the multimedia features in Android
- media components like video, audio, animation, visual graphics
- Playing Audio, Video, Recording Audio & Video
- Voice Recognition, Text To Speech
- Learning to work with various services like
  - Audio and video recording
  - Frame by frame animation
  - Defining frames to be animated
  - Animation layout
- Learning about basic Tween animation in Android.

## Module 18: Android Material Design & Resources

- Material properties, Material Patterns
- Material Styling / Animations
- Overview of Android Resources, Creating Resources
- Using Resources, Drawable Resources, and Animation Resources

## Module 19: Web Service

- Understanding Web Services
- Web Services Architecture
- Building Server side components
- Publishing web services
- REST based web services, Accessing Web Services
- Features of Web Services in Android.
- Integrating Web Services with mobile client
- Overview of networking,
- Working with HTTP to access the web services
- Parsing, Parsers
- Document Object Model ( DOM )
- Simple API for XML ( SAX )
- JavaScript Object Notation ( JSON )
- Parsing XML and JSON

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### Module 20: Debugging and Testing Android Apps

- Debugging & Logcat, Debugger
- Traceview, HierarchyViewer
- Monkey Runner, UIAutomator

### Module 21: Deploying to Google Play Store

- Debugging Android applications
- Introduction to the various debugging tools
- learning to export the app to the Google Play Store
- Registering for the Google Play Store.
- Release process & Release build of Android Application
- Signing the .apk file
- Content Rating, Distributing the Application
- Merchant Registration for Paid Applications

### Module 22: Android Projects

### Module 23: Google Developers Certifications

- Hands on practice on project
- Study material for practice
- Google Certification

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