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Android Training

The course will offer to learn Android programming concepts, and further how to build a variety of apps. It will empower you with the technical expertise to make a fully functional app. It starts with the History and Introduction of Android, along with schedule jobs, update settings, and use Android Architecture Components, and moves on to cover Android Studio.



Course Objective

Upon successful completion of this training, you will:

- Understand the practical/theoretical foundations of Android App
 Development
- Learn the right techniques and strategies used to develop Apps
- Learn to establish intuitive mobile applications





Course Content

Unit 01 Android: History and Introduction

- Java Concepts
- What is Android?
- Android History
- Android Versions
- Platform and Architecture
- Android Market

Unit 02 Android Studio, Gradle and ADB Tools

- Development Tools
- Working with Android Studio
- Understanding Gradle
- Project Dependencies
- ADB
- Build and Run your App
- Generate APKs
- Instant Run

Unit 03 Activity, UI basics and Intents

- Core Building Blocks
- Activity in Android
- Layouts and ViewGroups
- Layout Attributes
- Resources
- Languages and Local Support
- Custom Views
- Making Apps more Accessible
- Runtime configuration changes
- Events and Listeners
- Intents
- Synthesizing Task Stacks

Unit 04 Advanced UI: Style, Themes, Material UI and Menus

- Working with Styles and Themes
- Introduction to Material Design
- Material Themes
- Cards
- Elevation and shadow
- Menus

Unit 05 Android Threading: AsyncTask, Loaders, Handler

- Android Threading Model
- Processes and Lifecycle
- AsyncTask
- Loaders
- Handlers

Unit 06 Fragment and Advanced Views

- Fragments
- ListView
- RecyclerView
- CoordinatorLayout
- TabLayout
- Snackbar
- Advanced Views

Unit 07 Service, Notification and Broadcast Receiver

- Services
- Intent Service
- Notifications
- Broadcast Receivers
- Pending Intents

Unit 08 Content Provider and Job Scheduler

- Content Provider
- Content Observer
- Job Scheduler
- Adding support Libraries

Unit 09 SQLite Database and Networking

- Working with SQLite database
- CRUD Operations
- Cursors
- SQLite Transaction
- Working with Assets
- Networking in Android

Unit 10 Android Storage System

- SharedPreferences
- "Listening" to preference changes
- Internal Storage
- External Storage

Unit 11 Application Widgets and Working with Google Map

- Adding widget to user screen
- Designing the widget
- Updating widget
- Working with Google Map API
- Markers on Map
- Drawing on Map
- UI Controls and Listeners for Google Map API

Unit 12 Testing, Debugging and Deploying

- Testing in Android
- Unit Testing
- Instrumentation Testing
- Libraries for Testing
- Understanding LogCat
- Debugging
- Stacktraces and StrictMode
- Publishing application to Play Store



Why Learn AtriSE

- LearnAtRISE is a skill enhancing initiative powered by Rishabh Software (RSPL), an IT Company with over 20 years of experience, specializing in software development, engineering, recruitment process, and training services
- Full-time training Program, Up-to-Date, and thorough course content
- Wholistic training and development (Soft skills training included)
- State-of-the-art infrastructure
- Access our vast network of experts









Hands-on Practical Experience

Guidance from Industry

Experts

Full-time classroom training

Assured 100% placement assistance