

ANDROID SPECIALIST

END USERS, NOT TECHNOLOGIES, SHAPE THE MARKET. GO MOBILE FIRST.

! Thanks to its Open Source nature, Google's Android operating system has penetrated every nook and cranny of the world. It's the primary OS for hundreds of smartphones and tablets combined! Android Developers are part of this growing story, earning instant recognition for their skills, wherever they go.

i Worldwide mobile app downloads to surpass 352 billion in 2021, with gross consumer spend across all the app stores to surpass \$139 billion. A large chunk of that spend will go to Google play which is expected to generate over \$42 billion in 2021. [Source: App Annie.](#)

Android Certified Associate Developer

Duration: 5 days instructor-led course

Course Overview

workshop is a hands-on guide to designing and building mobile applications using Google's Android open-source platform. The course explains what Android is, the Android SDK, all essential features, as well as the advanced capabilities and APIs such as background services and notifications.

It also encourages participants to learn by building a real-life working application, which can serve as a basis for future Android projects. By the end of the course, each participant will have a complete functional Android application incorporating most of the key features of the platform.

Prerequisites

All participants should know the fundamentals of object oriented programming using JAVA, and be familiar with basic Java SE 1.8++ (classes, control flow statements, instantiation, inheritance, initialization, assignment, method overloading & overriding, etc).

Who Should Attend

This workshop is intended for software developers interested in developing applications for Android mobile phones supporting popular Android versions.

Exam Format

The ACAD Certification Exam duration is 2 hours, consisting of 50 Multiple Choice Questions, with a Passing Score of 70%. You will receive a professional ACAD Certification upon passing the exam.

Learning Outcomes

Upon completion of this course, you will be able to:

- Build your own applications for Android mobile phones.
- Understand how Android applications work, Android application components, manifest, and Intent.
- Design Android applications with compelling user interfaces by using and creating your own layouts using external resources..

Course Outline

Day 1

Mobile Development

- Overview
- Different Roles in large scale Mobile application project
- Mobile app Development Lifecycle
- Design Phase
- Development Phase
- Testing
- Deployment

Guidance Introduction

- What is Android?
- Android Architecture
- Android Version and Distribution
- Knowledge Check

Handling UI Widgets Input Events

- OnClickListener
- Image View
- ImageButton
- EditText
- CheckBox
- Flipper
- Knowledge Check
- Lab activity 3

Day 2

Android Development Environment

- System requirements
- Workflow
- Demo Development Environment Setup
- Unpacking SDK ADT Bundle
- Installing and Updating SDK
- Creating AVD
- Connecting a Mobile Device
- Knowledge Check
- Lab activity 1

Android App Development

- Demo App Development
- Assigning ID
- Size, Padding and Margins
- Project Structure
- Android Activity
- Activity Life Cycle
- Knowledge Check
- Lab activity 2
- First App Source Code

Widgets

- Selection Widgets
- Adapter
- ListView
- Spinner
- GridView
- HorizontalScrollView
- AutoCompleteTextView
- Knowledge Check
- Lab activity 4

Toast, Dialogs and Notifications

- Toast
- Custom Toast
- Dialog
- Notification
- Knowledge Check
- Lab activity 5

Android UI

- UI Layout
- Android Common Layout#
- Demo Layouts and Widgets Manipulation
- Knowledge Check

Day 3

Other User Interface

- Option Menu and Action Bar
- Context Menu
- Knowledge Checky

Intent

- Passing Data
- Sharing using Intent
- Sharing using Intent chooser
- Sharing with specific package
- Knowledge Check
- Lab activity 6ta using R

Material Design

- Material Theme
- List & Cards
- Snackbar
- TabLayout
- Recyclerview
- Cardview

Asynctask Internet Connection

- WebView
- HttpGet
- HttpPost
- HttpURLConnection
- Using Volley
- Knowledge Check

Persistent application data

- Shared Preferences
- File Resoucese

- SQLite Database
- Knowledge Check
- Lab activity 7

Day 4

Location Service

- Location
- Map
- GeoCoding
- Reverse GeoCoding
- Knowledge Check

Speech

- Text to Speech
- Speech Recognizer
- Knowledge Check
- Lab activity 8

Media

- Media Player
- Media Recorder
- Image Capture
- Video Capture

Multitouch

- Motion Event
- Multi Touch

Day 5

Sensor

- Accelerometer
- Proximity
- Gyroscope

Vibration Telephony

- Making a Call
- Sending SMS
- Telephony State

Publishing

- Registering
- Signing
- Application Version
- Package Naming
- Google Play
- 3rd Party Market

App Monetization

- Monetization Model
- Premium
- Freemium
- Subscription
- Ads

Testimonials

Hear what Our Students Have to Say



Good platform to enhance your understanding on mobile application.

[Norhalim Kassim, Institut Jantung Negara Sdn Bhd](#)

To expand new knowledge about android development. Yes, fulfilled my objective. The training provides a lot of lab activities that could enhance the skill.

[Farah Alia Binti Kamarul Zaman, Macro Kiosk Berhad](#)

"The best place to get certified! =) Just got mine! Fantastic materials and experienced instructors which will assist to achieve your goal - get certified!"

[Prajindra Sankar Krishnan, UNITEN](#)



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