

Core Java for OCAJP1 SE7 with Android App Development

Why this program?

Learning Java, whether you get certified or not, is an investment in yourself and your career. In our Core Java part of the program we focus on the syllabus for Oracle Certified Associate Java SE 7 Programmer 1 Examination and some topics more specific to android.

Good foundation in Core Java also helps you learn Android App Development. Both these qualifications will add immense value to your resume.

Java Topics Covered:

- Java Basics
- Working With Java Data Types
- Using Operators and Decision Constructs
- Creating and Using Arrays
- Using Loop Constructs
- Working with Methods and Encapsulation
- Working with Inheritance
- Handling Exceptions

Java topics useful for android, not included above, will also be covered.

Android Topics Covered:

- A brief history of Android and introduction to Android ecosystem. Android platform architecture. Android Studio Setup.
- A walk through various features of Android Studio. Use of debugger to examine internal state of a running application and DDMS tools for monitoring system behaviour.
- A quick overview of the app's fundamental building blocks and the steps involved in developing and deploying an android application on Actual Device/ Emulator.
- The Activity Class, the task backstack, activity life cycle, start one activity from another using intent and handling configuration changes. Android permissions architecture.
- A detailed discussion of Intent Class and an introduction to Fragment Class.
- UI Classes: Views and View Events; View Groups – Adapter View, Layouts...; Menus, Action Bar, Dialogs. View listener interfaces like OnClick..., to respond to user's interaction.
- Introduction to the concepts in material design.
- Threads, Async Task and Handlers. Acquiring data over internet
- The Broadcast Receiver Class, User Notifications...
- Graphics and animation. Multimedia
- Location and Map
- Data Management
- Publishing App on Google Play Store

Duration: 60 Hrs. Spread over 10 days