



C6 -14-2:3 CIDCO Colony, Bldg. No. 14, 2nd floor, Between Abhyudaya bank & Bhatia School,
above Pragati Computers, New Panvel, Navi Mumbai, Maharashtra 410206

Contact No. 9869210326, 9320224606, 022-27464220 Email : info@levanatech.com

Website: <http://www.levanatech.com>

Embedded Android & Android Internals Training Workshop

Course Duration: Two Days (10 am to 5 pm)

Course Fee: Rs. 4,000/- (+ Tax)

Course Outline:

- **Introduction**
 - History of Android
 - Features of Android
- **Internals of Android**
 - Overview of the Linux Kernel for Android
 - Overview Linux File systems
 - Overview Linux Devices Drivers
 - Android source code building
 - Getting & Building the Android Source
- **Anatomy**
 - Introduction & history of Android
 - Native Libraries
 - Android Runtime
 - Application Framework
- **Core projects**
 - Bionic
 - boot loader/legacy
 - build
 - dalvik
 - Development
 - Frameworks/base
 - Frameworks/policies/base
 - Hardware/libhardware
 - Hardware/ril

- Kernel
- Prebuilt
- Recovery
- System/Bluetooth
- System/core
- System/extras
- System/wlan/ti
- **Android Kernel**
 - Introduction
 - Binder
 - Power
 - Ashman
 - Low Memory Killer
 - Logger, ADB
 - Miscellaneous Patches
- **Getting Started**
 - Setting up development Machine
 - SDK Overview - Platforms, tools, versions
 - Hands on (Demonstration)
- **Android Emulator on Windows and Linux Host**
 - Goldfish & QEMU
 - Working with emulator
 - Connecting to emulator over ADB
 - Hands on with Eclipse SDK emulator
- **Android Runtime**
 - Introduction to Dalvik/Zygote
 - How Android framework starts
 - app runtime -> zygote
 - System server, Android services
 - Instances of Dalvik
 - Hardware abstraction layer
- **Android Tool chain**
 - Features of Android Tool chain
 - Dependency of libc with android build

- **Repo & Git - Overview**
 - Working with repo and git
 - How to Download Build & Compiling
- **Understanding - Rooting the device**
- **Android Native Layer Development**
 - Overview of Android C/C++ Libraries
 - Modifying C/C++ Libraries
 - Porting New C/C++ Libraries
 - Cross Compiling a C Program and executing on Target.
- **Preparing and Porting Android for Beagle Board / Friendly ARM Board**
 - Download Android kernel
 - Compile Android kernel
 - Prepare Android file systems
 - Porting applications on ARM Board

Advantages of Levana Technologies

- 100% Practical Oriented Workshops
- Industry Experienced Faculty
- Value for Money, Choose Modules of Your Choice
- Technical Support Even After Training

Levana Technologies conducts following workshops for Android Training

- Java Programming for Android Development - Two full days
- Android Application Development - Basic - Two full days
- Android Application Development - Advanced - Two full days
- Embedded Android & Android Internals - Two full days
- Android Testing - One full day

Other Fast Track Training Workshops conducted by Levana Technologies

- Integrated Linux Internals and Advanced Programming Training Workshop
- Embedded Linux and Device Driver Programming Training Workshop
- UNIX / Linux Shell Scripting with sed and awk Training Workshop
- Learn Japanese Language

Contact: Pratik

Contact Nos. : 9869210326, 9320224606

Address: Levana Technologies, C6-14-2:4,CIDCO Colony, Bldg. No. 14, 2nd floor,
Between Abhyudaya bank & Bhatia School, above Pragati Computers, New
Panvel, Navi Mumbai, Maharashtra 410206

Website: <http://www.levanatech.com>

Email: info@levanatech.com

At convenient travelling distance from Mumbai Central & Pune City.

For more details visit our website at <http://www.levanatech.com>