

Training Catalogue 01/06/2020

KAÏNA-COM TRAINING CATALOGUE

Android Software Architecture

Broad description of the Android OS platform





Nos locaux KAÏNA-COM France LE CARRÉ HAUSSMANN II 6 Allée de la Connaissance 77 127 Lieusaint





E-mail info@kaina-com.fr



Site Internet www.kaina-com.fr



KMO007 – Android Software Architecture

Reference	KMO007	
Experience	 □ Beginner ☑ Intermediate □ Advanced 	
Duration	Training Program: • 1 day	
Training Method	 I: i-learning, individual training (web-based training) V: v-learning, virtual class C: c-learning, classroom training KAÏNA-COM LE CARRÉ HAUSSMANN II, 6 Allée de la Connaissance 77127 Lieusaint - France 	
Price	688,50 € HT	
Prerequisite	A basic understanding of embedded and cross-platform development.	
Audience	System architects, software and hardware engineers looking for a clear understanding of internal architecture and internals of Android OS and its possible uses	
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KMO007 – Android Software Architecture, Continued

Objective Smartphones are at the forefront of a major transformation of the mobile industry. The Android Smartphone OS driven by Google and the Open Handset Alliance provides an Open Source, royalty free, unified platform for cutting-edge Mobile Internet services and applications. This technical course provides a broad description of the Android OS platform, including overall software architecture, the Linux kernel and driver domain, native code domain, Dalvik virtual machine, Java application framework, main system services, system initialization and startup, system services and development kit (SDK and NDK).

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KMO007 – Android Software Architecture, Continued

Course Contents Course Contents :

Table 1: KMO007 - Course Contents

Chapter	Description
Why Android?	 Mobile Internet trends Google strategy and approach to Mobile Internet Examples of Android applications
Android Architecture	 Android OS versions, licenses and variants Overview of main software layers Linux kernel Native code domain Java code domain
Fundamentals of Application Framework	 Main application components Process and memory model Application life-cycle
Application Development Tools	 IDE Native Development Kit (NDK) Emulator ADB, DDMS

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KMO007 – Android Software Architecture, Continued

Course Contents,

continued

Chapter	Description
Android Internals	 Linux kernel Initialization and boot process Dalvik VM Display and Audio
	MultimediaPower Management
Android Platform Services	 Telephony services Wi-Fi services Bluetooth services Connectivity manager services Sensor services
The End	SummaryQ&AEvaluation







