



NFC Fundamentals

by the #1 semiconductor company in identification technologies and the co-inventor of NFC

NFC enables users to perform intuitive and safe contactless transactions to access digital content and connect electronic devices by simply bringing them into close proximity.

In addition to the traditional contactless related services, NFC is opening up an endless series of new applications, use cases, and business opportunities. Thanks again, not only to the NFC connectivity basics, but also to the great features and capabilities of the smart phones. A world of discovery...

This 1-day introduction course will help you to understand the basics of this technology, the applications, use cases and key actors in the ecosystem.







Who should attend?

- Specialized Sales & Marketing Business Development
- ➤ FAE, Development engineers, Technical Managers
- Software Engineers Software Managers

Contact information

Training program delivered by:

MobileKnowledge

For further information contact:

Eric Leroux eric.leroux-mk@nxp.com +34 629 54 45 52

What will you learn?

- ➤ You will discover the potential of NFC technology by learning how it works. Which are the most relevant use cases and applications. How can you take advantage of the NFC opportunity and how does this fit your needs and markets.
- You will learn the different NFC modes of operation. The architecture of an NFC phone or NFC reader. The different NFC tags and how to work with them.
- You will understand the NFC standards, and the NFC Forum specifications to deploy the NFC services and applications in a fully interoperable way.





Agenda (8:30h – 16:30)

➤ Towards an NFC era	The mobile revolution: the smartphone as the main computing platform. NFC as a link between the physical and digital worlds. New emerging business opportunities.
> NFC essentials	RFID principles. NFC Air interface standardization (NFCIP-1 and NFCIP-2 standards). Device architecture (NFC Reader and NFC Phone). NFC Forum specs.
> Read & Write	Operation and communication modes. NFC Data Exchange Format (NDEF). NFC Tags features and the four NFC Forum Type Tag specifications. Workshop: program your own NFC Tag!
➤ Card Emulation	Emulation of physical smartcards in the mobile device. Secure Element basics. Host Card Emulation concept. Application loading and issuance process. Secure Element form factors and certification. NFC ecosystem. Stakeholders. Trusted Service Manager.
> Peer-to-Peer	Operation and communication modes. Protocol stack (LLCP, SNEP and CHP). New use cases and applications.
> NXP solutions	NXP NFC products overview. Connected NFC Tags, NFC frontends and NFC controller solutions.

Duration

8 hours (including coffee breaks and lunch)

Documentation and materials delivered

Printed booklet with all training slides

USB with: Software for the workshop & Full documentation in pdf format

Sample cards (Type 2 Tag and Type 4 Tag)

Reference documentation

Other information

2 weeks of post training support

Refreshments, coffee breaks and lunch included

Get your discount for Early Bird Registration or multiple attendees from your Company