Contactless Technologies

ISO 14443 type A, type B, MIFARE, ISO 10373-6…

Technical training with Practical Work

Day 1

Contactless – Introduction

- Principle of Contactless – Technologies – Applications
- Standards in force
- Theory / Basic principles

Practical Work (PW)

- Antenna calibration (readers)
  PW: ISO 10373-6 Test Apparatus
- Characterisation of the operational volume of a Contactless reader
  PW: Scanner of 3D Fields
- Retro modulation measurements of Contactless smartcard
  PW: Calibration coil, PCB antenna…

Day 2

Tools / Simulators

- Smartcard reader simulator
  PW: Use a Class 185
- Contactless smartcard simulator
  PW: Use a Class 3150
  Protocol Tests

Interoperability

- Card/reader exchange and dialogue observation
- Decoding and protocol analysis
  PW: Use a ClassScope

Day 3 (optional)

Technical tests and expertise

on samples provided by the customer (Cards, badges, passports, readers…)

- Study of products
- Technical features
- Performance evaluation
- Optimisation of products
- Statements of Conformity

Expert Eyes
Contactless Expertise Center

Public concerned ⇨ Technical Manager, Project Manager, Engineers, Technicians, Software/Hardware Developers

Number of participants ⇨ 1 to 3 **Place ⇨** Lille – Paris – Caen (France)

Dates/Cost/Detailed Program ⇨ On request (contact@expert-eyes.net)