

Understanding Biometric Technologies & Applications

Objectives:

At the end of this course you will:

- ✦ **Understand the main technologies used in Biometrics today**
- ✦ **Be able to evaluate the benefits & limitations of the different solutions**
- ✦ **Have an overview of real-life solutions which are deployed today & future evolutions**

Key Topics:

- ✦ Biometrics overview
- ✦ Fingerprint recognition
- ✦ Facial recognition
- ✦ Iris identification
- ✦ Biometrics & Cryptography
- ✦ Biometric Passports
- ✦ Contactless
- ✦ ICAO
- ✦ Use cases

Who should attend:

- ✦ IT department staff
- ✦ Project Managers
- ✦ Developers...



Biometrics is more and more demanded in both governmental and private applications where people need to be identified for physical access or logical access to data or services, such as National ID programs, e-passports and other Enterprise IT systems. This one-day seminar allows you to benefit from Gemalto's experience in digital security to fully understand the role of Biometrics in security critical environments and to evaluate the benefits, limitations & risks of different solutions, also to understand forthcoming state-of-the-art technologies to imagine new kinds of Biometric usages

Each training session consists of:

- ✦ A Complete course manual
- ✦ Many Practical Demonstrations

Pre-requisites:

- ✦ An Understanding of security & cryptographic basics would be useful
- ✦ This course is held in English

Duration: 1 Day

Course fee: 699 €

Location:

Gemalto Training Centers. For on-site training, please contact us.

Course Schedule:

Day 1	Practice
<p>All you ever wanted to know about Biometrics</p> <ul style="list-style-type: none"> + Definition and presentation of biometric technologies + The biometric process + Fingerprints, Facial recognition, Iris recognition + Different image sensors + Smart cards & Biometrics: Match on card vs Match off card <p>Threats & counter-measures</p> <ul style="list-style-type: none"> + Issues with context of use + Generic counter-measures with smart cards <p>Pin vs Biometrics</p> <p>Practical examples of fingerprint capture</p> <p>Example of facial recognition</p> <ul style="list-style-type: none"> + Technology <p>Standards</p> <ul style="list-style-type: none"> + ICAO / ISO / AFNOR / CEN <p>Cryptographic Biometrics</p> <ul style="list-style-type: none"> + The process <p>Markets, Applications & Products</p> <ul style="list-style-type: none"> + Passport & ICAO, + Identity + Contactless + Smart card benefits: Match on card + Use case: PKI & Biometrics <p>Real-life Examples of Biometric Solutions</p> <ul style="list-style-type: none"> + Passport & National Identity + Corporate Security + Gemalto Offer <p>Conclusion</p>	<ul style="list-style-type: none"> - Match on PC - Storage on card (match off-card) - Match on-card <ul style="list-style-type: none"> - Practical demos (swipe, optical...) <ul style="list-style-type: none"> - Facial Recognition Enrolment & Authentication <ul style="list-style-type: none"> - BioEasy solution <ul style="list-style-type: none"> - Match on-card product - GemBorder (Passport) solution

Related Courses:

Security &
Cryptography
(S10012)

PKI
Fundamentals of
Secure
Networking

Understanding
Biometric
Technologies &
Applications