

# PKI Fundamentals of Secure Networking

## Objectives:

At the end of this course you will:

- ★ Understand networking security basics.
- ★ Know the basic cryptographic concepts, and what Public Key Infrastructures (PKI) are all about
- ★ Understand how these technologies enhance security for applications ranging from electronic commerce to email or network access

## Key Topics:

- ★ BASICS OF NETWORK SECURITY
- ★ CRYPTOGRAPHY
- ★ KEY MANAGEMENT
- ★ PKI
- ★ CERTIFICATE AUTHORITIES

## Who should attend:

- ★ Operations & IT Technical Managers
- ★ Electronic banking managers,
- ★ Security managers.
- ★ Project managers



With the explosive growth of the electronic commerce market, businesses and financial institutions are capitalizing on the opportunities this new virtual marketplace delivers. However, a major concern that comes to mind is usually the lack of security, reliability, and accountability. Gemalto is developing the necessary technologies, solutions and services to address this need

## Each training session consists of:

- ★ A Complete course manual

## Pre-requisites:

- ★ This course requires participants to have a good understanding of networking
- ★ 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
Welcome and training overview
Networking <ul style="list-style-type: none"><li>★ Security basics</li><li>★ The concept of an infrastructure</li><li>★ The need for PKI</li></ul>
Cryptography & Smart Cards <ul style="list-style-type: none"><li>★ Concepts: Secret key cryptography; Digital signature; Integrity; Authenticity; Non-repudiation; Encryption; Privacy</li><li>★ Smart Cards</li><li>★ Concepts: secret key cryptography</li><li>★ Legal issues around cryptography</li></ul>
Third-party trust <ul style="list-style-type: none"><li>★ Certification authority: registration authority</li><li>★ X.509 digital certificates</li><li>★ Business models</li></ul>
Smart Card-based Public Key Infrastructure <ul style="list-style-type: none"><li>★ PKI Smart Cards</li><li>★ Certificate management: policy; issuance; revocation</li><li>★ Key management: key generation; key backup; key recovery; key history</li><li>★ Directory services: LDAP; X.500</li><li>★ Front-ends: web browsers; email</li><li>★ Card management system</li></ul>

**Related Courses:**