

## Security Architecture («SICCHAR»)

Security is a recurring topic in ICT. Since not only the possibilities in the security field but also the threats are constantly changing. The threat situation must be monitored and the security measures continuously adapted.

**Duration:** 1 day

**Price:** 950.–

**Course documents:** Slide-Handout, additional information

### Content

- **What is Security?**
  - Identity
  - Encryption
- **Where do the threats come from? Encryption: Procedures and methods**
  - Symmetrical/unsymmetrical encryption
  - Key generation
  - Integrity
  - Privacy
- **Public Key Infrastructure**
  - Components
  - X.509
  - Certificates and their use
- **Network Security**
  - Virtual Private Network
  - SSL/TLS
  - IPSec
  - DNasec
- **Security in the operating system**
  - In the File System (EFS)
  - In the Network (Information Rights Protection)
  - Operating system (BitLocker/Secure Boot)

### Key Learnings

- Knowledge of the threats an organization faces
- Knowledge of the basic mechanisms of security
- Understanding the potential uses of a PKI
- Knowledge of which countermeasures are applied when

### Target audience

This course is targeted at ICT Architects, Developers and Decision Makers who want to identify the current threats to ICT and understand the appropriate countermeasures.

### Requirements

Basic understanding of ICT technologies, in particular understanding of TCP/IP architecture in the scope of the following courses:

- [TCP/IP Basics \(«TCN»\)](#)

## Any questions?



We are happy to advise you on +41 44 447 21 21 or [info@digicomp.ch](mailto:info@digicomp.ch). You can find detailed information about dates on [www.digicomp.ch/courses-software-engineering/it-architecture/system-infrastructure-architecture/course-security-architecture](http://www.digicomp.ch/courses-software-engineering/it-architecture/system-infrastructure-architecture/course-security-architecture)