

Network Architectures («NETZAR»)

This module teaches concepts and network architecture for IT systems. It trains theoretical knowledge and skills for defining requirements, evaluating solutions and designing and implementing networks.

Duration: 1 day

Price: 950.–

Course documents: Powerpoint slides as PDF

Content

- Requirements for IT networks:
 - Operational aspects
 - Technical aspects (focus)
 - Legal aspects
- Concepts and architectures of IT networks:
 - Layer models
 - Topologies
 - Protocols (focus on Internet, TCP/IP)
- Design of IT networks:
 - Conversion of requirements into solution variants
 - Evaluation of solutions
- Implementation of IT networks:
 - available hardware / software
 - physical and virtual implementations on site and in the cloud
 - Security aspects
- Management of IT networks:
 - Problems, objectives and approaches to solutions.
 - SNMP
 - Software Defined Networking (SDN) (Control Plane / Data Plane)

For the exercises and the comprehension of examples, each participant has his own virtual exercise environment with several VMs in our computer center.

Key Learnings

- Defining requirements for IT networks
- Understanding the concepts, architectures and protocols of IT networks
- Understanding the design of IT networks
- Understanding and evaluating IT network implementations

Methodology & didactics

This course is structured as an interactive seminar in which knowledge and skills are acquired primarily in joint group work with the supervision and support of the trainer.

Target audience

This course is aimed at IT decision makers as well as IT managers of all industries.

Requirements

Basic knowledge of business IT.

- Basics of data communication («DAC»)
- TCP/IP Basics («TCN»)

Further courses

- TCP/IP Advanced («TCA»)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-software-engineering/it-architecture/system-infrastructure-architecture/course-network-architectures