

Basics of data communication («DAC»)

This course gives an overview of how IT systems communicate. Today's technologies are presented in detail: Internet, LAN, WiFi, mobile, web, firewalls, etc. Concepts and architectures of data communication become clear through exercises.

Duration: 2 days

Price: 1'400.–

Content

This course provides solid basic knowledge on the communication of IT systems. Using examples and practical exercises, the concepts and architectures in data communication are explained and made understandable.

Topics are:

- Networks in technology: power grids, telephone networks, computer networks, etc.
- Basic knowledge of data communication: bits & bytes, etc.
- Technologies in IT systems: LAN, Ethernet, USB, Bluetooth, WiFi, Mobile, etc.
- Data communication in applications: Web, email, file transfer, telephony, video, chat, remote access, etc.
- The network of networks: The Internet and its protocols: TCP/IP.
- Concepts, architecture, topologies, of networks: The ISO/OSI model and others.
- Hardware for networks: switches, cables, modems, routers, etc.
- Software for networks: browsers, apps, tools, etc.
- Security & threats in networks: Firewalls, VPNs, data protection, etc.

For the exercises and the comprehension of examples, each participant will have their own virtual training environment with several VMs in our data centre. Windows 10 and others are used.

The course is also an excellent introduction to technical training in computer science. Further courses are TCN, TCL, TCA.

Key Learnings

- Understand the basics of data communication of IT systems
- Knowing the concepts and architectures of IT networks
- Understand and use the functioning of the Internet and its applications
- Knowing and evaluating today's possibilities and products in the field of data communication
- Know about the security and dangers in today's data communication

Methodology & didactics

The course is explicitly structured in a practice-oriented way. Concepts and theory are derived from practical examples and exercises.

Target audience

This course is aimed at employees in all industries who increasingly need technical knowledge of data communication. IT decision-makers and others who want to expand their technical knowledge as well as newcomers to technical informatics.

Further courses

- [TCP/IP in Local Area Networks \(LAN\) \(«TCL»\)](#)
- [Network Architectures \(«NETZAR»\)](#)
- [TCP/IP Basics \(«TCN»\)](#)

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-it-provider/network-telecom/course-basics-of-data-communication