

Item No.: CO4205-4Q

Course Networking and Cyber Security

Includes:

- Labsoft course "Network technology"
- 2 x Experiment cards "Networking (Server/Client)"
- Network switch
- USB-to-Ethernet adapter
- 3 x CAT 5 connection cables

Course Contents:

- Network architecture and topology
 - Computer network
 - Star topology
 - Tree topology
 - CSMA/CD
 - ISO/OSI layer model
 - MAC address
 - Peer-to-peer network
 - Server-client network
- Introduction to network standards
 - Categories
 - Network cables
 - Connectors
- Introduction to Internet Protocol
 - TCP IP
 - Addressing
 - Masking
 - Packaging & routing
- Important protocols for layer 3-4
 - ICMP
 - TCP
 - UDP & SSDP
- Network services and protocols for layer 5-7
 - DHCP
 - FTP
 - HTTP (WEB-Server)
 - Streaming
- Cyber security
 - Open ports
 - Data transfer via FTP
 - Encryption by SSH
 - DDoS attack



- Course duration: approximately 8 hours