

Networking Technologies

The Relevant Details at One Glance

In the past years, the networking world has been strongly influenced by a trend away from classic technologies towards All-IP. In this context, the course at hand offers you a comprehensive overview of current networking concepts—from transmission technology to the Next Generation Network. This is done both from the viewpoint of network operators and of enterprise structures. The course imparts a conceptual understanding of the different networking technologies and their fields of application. As a result, the participants will learn to use the corresponding terminology competently. New developments such as Software-Defined Networking (SDN) and Network Function Virtualization (NFV) round off the table of contents.

Course Contents

- Transmission and Switching, Multiplexing Methods, LAN and WAN
- Last Mile, Aggregation Area, and Backbone
- The Layer Model
- IP(v4 and v6) Addressing and Routing
- The Structure of the Internet—ISPs, Peering, and Providings
- IP Applications (Client/Server and Peer to Peer)
- Security: Firewalls, VPNs, Intrusion Detection & Prevention
- Transmission Technology: SDH and WDM
- Multiprotocol Label Switching (MPLS)
- DSL Connections and Variants (ADSL, ADSL2, ADSL2+, and VDSL2), Vectoring
- Cable Networks and DOCSIS
- Metropolitan Ethernet
- LTE
- LANs: Ethernet Switching and VLANs, Network Design
- Wireless LAN: Bit Rates, Ranges, Security
- Storage Networks: Network Attached Storage and Storage Area Networks
- Voice Switching: Media Streams and Signaling
- Convergent Networks: VoIP and Next Generation Networks (NGN)
- Software-Defined Networking (SDN)
- Network Function Virtualization (NFV)

E-Book You will receive the comprehensive documentation package of the ExperTeach Networking series – printed documentation, e-book, and personalized PDF! As online participant, you will receive the e-book and the personalized PDF.

Target Group

The course addresses all persons in general who wish to become acquainted with the networking world from a technical point of view.

Prerequisites

A keen interest in the concepts and technologies of modern communications networks is the main prerequisite for the course at hand.

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.experteach-training.com/go/NETE

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ExperTech GmbH

Waldstraße 94 • 63128 Dietzenbach • Phone: +49 6074 4868-0 • Fax: +49 6074 4868-109
 info@expertech.de • www.expertech-training.com

