

L3 Routing Protocols and Principles

Layer 3 principles and features based on IP are the backbone of modern data networks.

In this training we cover the basic principles of L3 Routing and the most important routing protocols like OSPF and BGP. Particular emphasis will be put on the topic Multicast. Also the main alterations with IPv6 will be presented.

This training will be supplemented with exercises. We build a live network to get a deeper insight into the mechanisms being used. Tools like Wireshark help us to get a better understanding of IP and the other protocols.

Target Group / Requirements

This training is addressed to employees who need a basic understanding of Routing and IP for their daily work.

The theoretical knowledge is applied in practical exercises in order to reinforce and strengthen the important parts of the training with personal experience.

Course Content

IP Basis

- IP Basics
- IP Addressing
- Subnetting

L3 Routing and Routing Protocols

- What is L3 Routing?
- Routing Protocols (RIP, OSPF, BGP)
- Multicast Routing
- IPv6

Practical Exercises

- Setup of a L3 Network Infrastructure
- Configuration of Routing Protocols
- Analysis of traffic and Routing Information with Wireshark
- Setup of Routing Environments with Simulation Tools

Certification

Certificates are given to all participants at the end of the course about the successful completion.

Course Duration:

2 days

Course Number:

ND1363

Requirements:

Basic knowledge of telecommunication and networks

Course Registration:

Please contact us via

- phone: +49 89 1894354-405
- email: training@tfk.de or
- via our website www.tfk.de/training

You will receive a confirmation of your registration. We can also advise you concerning the best combination of course contents.

For clients with special requirements the optimal training concept can be customized. Modules from our training portfolio can be combined to meet your company-specific needs.