

# Inhalt CCNA Exploration 4.0

## **Network Fundamentals**

1. Living in a Network-Centric World
2. Communication over the Network
3. Application Layer Functionality and Protocols
4. OSI Transport Layer
5. OSI Network Layer
6. Addressing the Network – IPv4
7. Data Link Layer
8. OSI Physical Layer
9. Ethernet
10. Planning and Cabling Networks
11. Configuring and Testing Your Network

## **Routing Protocols and Concepts**

1. Introduction to Routing and Packet Forwarding
2. Static Routing
3. Introduction to Dynamic Routing Protocols
4. Distance Vector Routing Protocols
5. RIP version 1
6. VLSM and CIDR
7. RIPv2
8. The Routing Table: A Closer Look
9. EIGRP
10. Link-State Routing Protocols
11. OSPF

## **LAN Switching and Wireless**

1. LAN Design
2. Basic Switch Concepts and Configuration
3. VLANs
4. VTP
5. STP
6. Inter-VLAN Routing
7. Basic Wireless Concepts and Configuration

## **Configuring and Testing Your Network Accessing the WAN**

1. Introduction to WANs
2. PPP
3. Frame Relay
4. Network Security
5. ACLs
6. Teleworker Services
7. IP Addressing Services
8. Network Troubleshooting