

Cisco Networking Academy

Ausbildung zum Cisco Certified Network Associate (CCNA)

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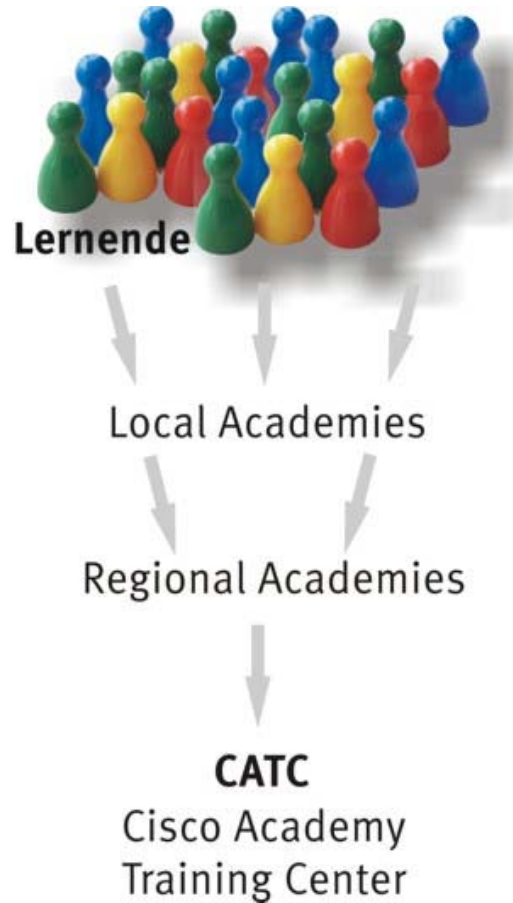


Bonn-Rhein-Sieg
University of Applied Sciences

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Ausbildungsmodell



**Die Lernenden stehen im Mittelpunkt
des Programms**

280 Local Academies in Deutschland

**Train-the-Trainer in Regional Academies
28 Regional Academies in Deutschland**

**Train-the-Trainer-of-the-Trainer in CATCs
41 CATCs weltweit – 1 CATC in Deutschland**

Entwicklung des Programms

- 1997 Start in den USA
- 1999 Beginn der Übersetzung ins Deutsche und Lokalisierung des Curriculums
- aktuell 280 Bildungseinrichtungen bundesweit
- weltweit mehr als 10.500 Akademien mit fast 500.000 Studenten



Gesamtkonzept

Cisco Industrie Zertifikat

Kommerzielle Anbieter von
Weiterbildungsinhalten

Networking Academy
(non-profit)



CCNA Exploration

Changes Compared to Current CCNA

	CCNA v3.1	CCNA Exploration	Course Changes
CCNA 1	Networking Basics	Network Fundamentals	<p><u>% content change</u></p> <p>53%</p> <ul style="list-style-type: none"> • Intro to Advanced Technologies and Converged Networks • Top-Down Approach to Networking
CCNA 2	Routers and Routing Basics	Routing Protocols and Concepts	<p>9%</p> <ul style="list-style-type: none"> • Can be taught before, with, or after LAN Switching and Wireless • Removed IGRP • Added VLSM, OSPF, EIGRP • More challenging labs
CCNA 3	Switching Basics and Intermediate Routing	LAN Switching and Wireless	<p>22%</p> <ul style="list-style-type: none"> • Can be taught before, with, or after Routing Protocols and Concepts • Added Rapid Spanning Tree protocol • Added wireless concepts • More challenging labs
CCNA 4	WAN Technologies	Accessing the WAN	<p>23%</p> <ul style="list-style-type: none"> • De-emphasize ISDN • Added new WAN concepts • Added ACLs, VPN concepts

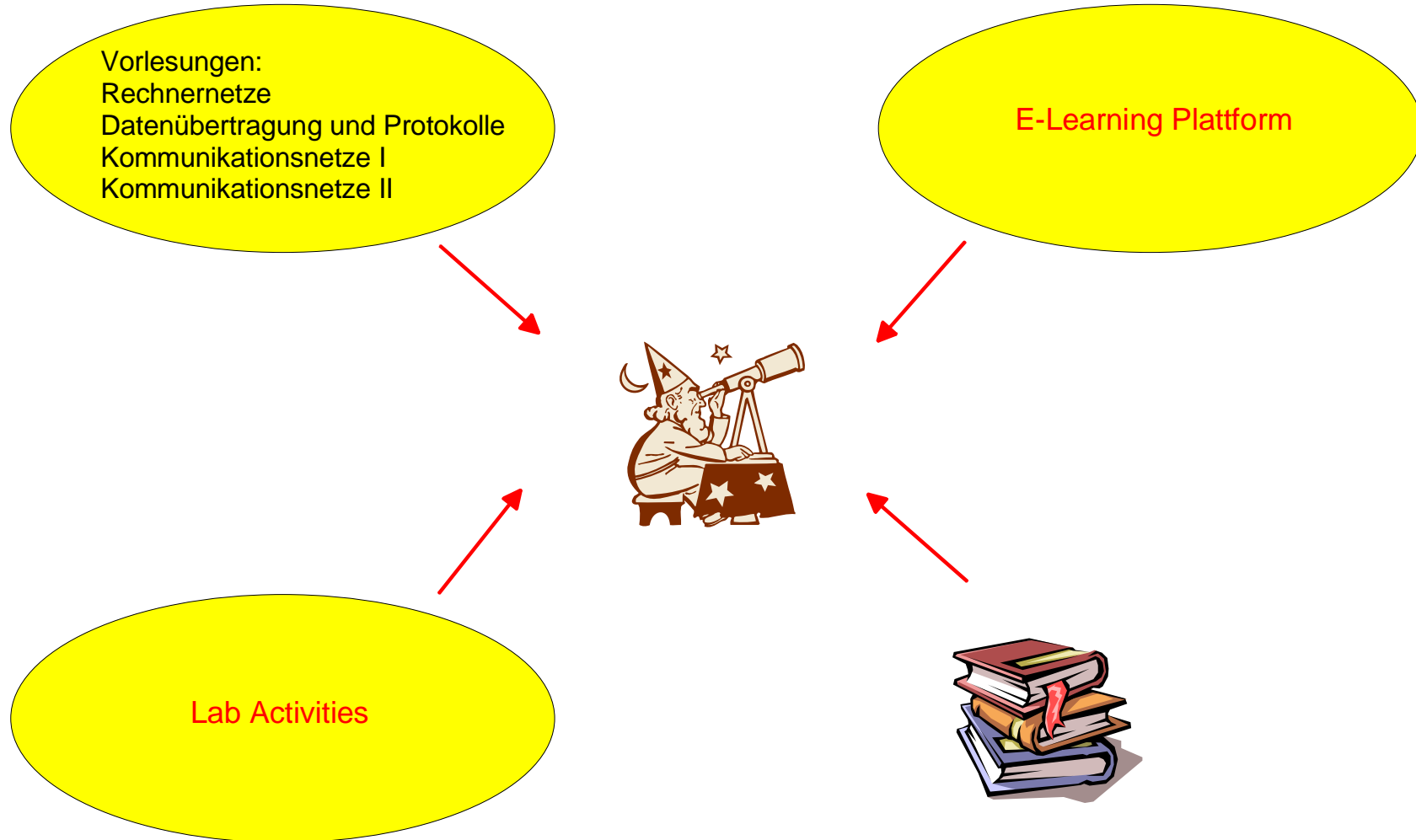


CCNA Exploration Course Outline

Ch	Network Fundamentals	Routing Protocols and Concepts	LAN Switching and Wireless	Accessing the WAN
1	Living, Learning, Working, and Playing in a Network-Centric World	Introduction to Routing and Packet Forwarding	Ethernet Revisited	Managing Traffic: Access Control Lists (ACLs)
2	Communications with Computer Networks and the Internet	Static Routes	Switching Concepts: IOS and CDP	Addressing Hosts: NAT, DHCP, and IPv6 Basics
3	OSI Application Layer	Introduction to Dynamic Routing Protocols	Inside the Switch	Security
4	OSI Transport Layer	Distance Vector Routing Protocols	Campus Network Design	Introduction to WAN Technologies
5	OSI Network Layer and Routing	RIP v1: A Distance Vector, Classful Routing Protocol	Basic Switch Configuration	WAN Devices and Connections: CSU, Cable Modem, and DSL Modem
6	Addressing the Network - IPv4	Classless Routing: VLSM and CIDR	VLANs & IP Telephony Basics	Connecting to the WAN: Leased Lines, Cable, and DSL
7	OSI Data Link Layer	Classless Routing Using RIPv2	Rapid Spanning Tree Protocol	PPP, PPPoE
8	OSI Physical Layer	The Routing Table: A Closer Look	Trunking and VTP	Frame Relay
9	Ethernet	EIGRP: A Distance Vector, Classless Routing Protocol	Inter-VLAN Routing	QoS Considerations
10	Planning and Cabling Your Network	Link-State Routing Protocols	Wireless Networks and Mobility	Tunneling Concepts & VPN Basics
11	Configuring and Testing Your Network	Single Area OSPF: A Link State, Classless Routing Protocol	Campus LANs	Capstone: Converged Networks



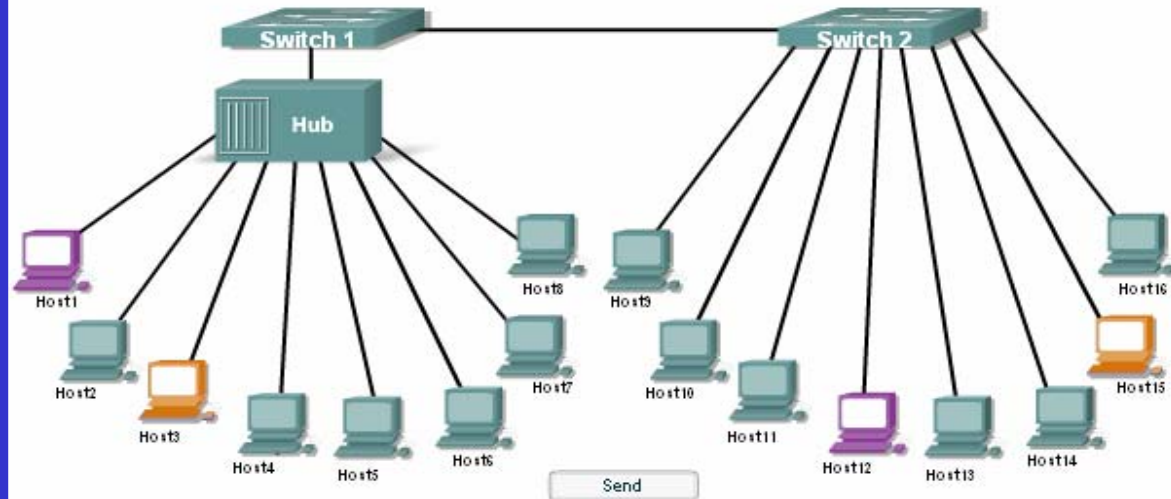
Lernen ?



2/3 or full-screen media area

Sometimes, it is necessary to connect another networking device, like a hub, to a switch port. This is done to increase the number of hosts that can be connected to the network. When a hub is connected to a switch port, the switch associates the MAC addresses of all hosts connected to that hub with the single port on the switch. Occasionally, one host on the attached hub sends a message to another host attached to the same hub. In this case, the switch receives the frame and checks the table to see where the destination host is located. If both the source and the destination are on the same port, the switch discards the frame.

1/3 text area, automatically scrolls, disappears for full-screen media



To see what happens when a collision occurs in a switched network, click SEND.

Next / Back

Language Toggle

Navigation tools

Go To / Location and Topic Navigation Bar

Academy Portal

- Gemeinsam für alle Benutzer
- Integration aller Funktionen
- 24 h Online Help-Desk
- aktuelle Informationen
- Collaboration / Communication
- Zugriff auf alle Ressourcen
- Alumni
- <http://cisco.netacad.net>



Assessment

- Online-Prüfungen:
 ⇒ Konfigurieren, Ablegen,
 Kontrollieren + Auswerten
- Skill-Tests und Fallstudien
- Bewerten und Graduieren von
 Teilnehmern
- Personalisierte Feedbacks und
 Reports

Gradenbook																							
	Chapter 1 Exam	Chapter 2 Exam	Chapter 3 Exam	Chapter 4 Exam	Chapter 5 Exam	Chapter 6 Exam	Chapter 7 Exam	Chapter 8 Exam	Vendor Exam	Pre-Test Exam	Practice Final Exam	Final Exam	CCNA 4 - Feedback Form	Case Study	Skills Exam	Custom Scores	Weighted Percentage	Grade	Attendance	Eligible for Certificate	Eligible for Letter	Result	
Weight (Totals 100)	5	5	5	5	5	5	5	5	5	5	5	5	5	10	20	20							
hueschke	66.7	52.0	-	-	-	-	-	-	-	-	-	-	-	0	0	0.0	3.6						
belgard	100.0	84.0	95.7	-	-	-	-	-	-	-	-	-	-	0	0	0.0	0.4						
friedman	100.0	92.0	87.0	-	-	-	-	-	-	-	-	-	-	0	0	0.0	0.4						
moewke	95.2	82.0	87.0	-	-	-	-	-	-	-	-	-	-	0	0	0.0	0.2						
borgoun	95.2	80.0	91.3	95.2	-	-	-	-	-	-	-	-	-	0	0	0.0	10.9						
elstgen	92.2	76.0	91.3	85.7	-	-	-	-	-	-	-	-	-	0	0	0.0	10.4						
oettel	57.1	56.0	-	-	-	-	-	-	-	-	-	-	-	0	0	0.0	0.4						
terstede	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0.0	0.0						
hurlmann	100.0	100.0	100.0	100.0	-	-	-	-	-	-	-	-	-	0	0	0.0	12.0						
khess	85.7	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0.0	2.6						
gustman	100.0	84.0	87.0	90.5	-	-	-	-	-	-	-	-	-	0	0	0.0	10.8						

Assessment System

1. Assessment Selection 2. Assessment Settings

Take Assessment - Chapter 4 Exam - CCNA 4 Version 2.1.4

Time Remaining: 00:59:48

- Which protocol was PPP created to replace?
 - SLIP
 - CHAP
 - IPX
 - SPX
- Which of the following is sent in the link establishment and configuration negotiation phase of PPP?
 - PAP data
 - LCP packets
 - NCP packets
 - MTU data

Kosten & Anmeldung

- „Gebühren“:
 - 200 € für CCNA 1 & 2 (Paketpreis)
 - 200 € für CCNA 3 & 4 (Paketpreis)
- Anmeldeverfahren:
 - Registrierung per Online Formular
 - Teilnehmer werden benachrichtigt (evtl. Warteliste)
⇒ Kursgebühr überweisen
 - Registrierung auf dem Cisco Server (Name, Vorname, E-Mail Adresse), Einschreibung
- ein Rechtsanspruch auf Teilnahme besteht nicht

Zeitplan

