



Cisco Data Center Training and Specializations

Course Dates until June 2009!

Discover tomorrow's Data Center Solutions today!





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Data Center 3.0: Enhancing Business Resilience and Agility

The network is the optimum place for new capabilities that connect applications, servers, and storage together. Cisco helps you:

- Extend the lifecycle of critical data center facilities and assets
- Provide a safe and secure architecture for the data center
- Be more responsive to business needs

Serving as the network platform for the next-generation data center, the new Cisco Nexus Family, is the flagship of a new generation of purpose-built data center switching platforms. The Nexus Family is designed to unify multiple data center networks providing a more efficient, resilient, and lasting infrastructure for enterprise and service provider operations.



CONTACT US.

Fast Lane prepares you perfectly for both planning and implementation of Cisco's Data Center solutions and furthermore supports Cisco Partners in acquiring valuable Cisco Data Center Specializations. Feel free to get in touch if you have any questions about our offering we'll be delighted to hear from you. You can reach us any time by calling +49 (0)40 25334610 or sending an e-mail to info@flane.de.

Cisco Data Center Specializations



Enhanced

Contents!

The Cisco Data Center Specializations validate the skills to offer end to end Cisco Data Center solutions including Storage Networking as well as Unified Fabric/Nexus and Application Networking Services (ANS). This guide includes the training available from Fast Lane to help you achieve the Advanced Data Center Network Infrastructure Specialization and the Advanced Data Center Storage Networking Specialization. Be it an onsite or public schedule course that you require, Fast Lane will provide you with a reliable and cost effective solution, designed to take account of your specific data center needs.

Advanced Data Center Network Infrastructure

The Advanced Data Center Network Infrastructure (DCNI) Specialization recognizes partners for their knowledge and expertise in selling, designing, installing, and supporting a comprehensive data center solution. In support of the Data Center 3.0 vision, Cisco is enhancing the Advanced Data Center Network Infrastructure (DCNI) Specialization. Enhancements to the Advanced DCNI Specialization integrate data center applications networking with networking infrastructure solutions. The Advanced DCNI Specialization includes the following products:

- Cisco Blade Server Switches
- Cisco Catalyst 6500 Switches and 4900 Switches
- Cisco Catalyst 6500 Firewall Services Module (FWSM)
- Cisco Network Analysis Module (NAM)
- Nexus 5000 and 7000 Switches
- Cisco ACE 4700 Series Application Control Engine Appliances
- Cisco ACE Application Control Engine Module for Cisco Catalyst
- Cisco ACE GSS 4400 Series Global Site Selector Appliances
- Cisco Application Networking Manager (ANM)



ADVANCE	ADVANCED DATA CENTER NETWORK INFRASTRUCTURE					
Job Role	Cisco Career Certification	Prerequisites	Recommended Training	Exam		
AM	Cisco Data Center Solution Sales Specialist	CSE Exam #646-204	DCSS Cisco Data Center Solutions Sales Web-based Training	DCNS Exam #646-976		
SE	Cisco Data Center Network Infrastructure Design Specialist	CCDA Exam #640-863	DCNID Designing Cisco Data Center Network Infrastructure	DCNID Exam #642-971		
FE	Cisco Data Center Network Infrastructure Support Specialist	CCNP Exam #642-901 BSCI Exam #642-812 BCMSN Exam #642-825 ISCW Exam #642-845 ONT	DCNI-1 Implementing Cisco Data Center Network Infrastructure 1 DCNI-2 Implementing Cisco Data Center Network Infrastructure 2	DCNI-1 Exam #642-973 DCNI-2 Exam #642-974		
	Cisco Data Center Application Services Design Specialist	CCDA Exam #640-863	DCASD Designing Cisco Data Center Application Services	DCASD Exam #642-972		
	Cisco Data Center Application Services Support Specialist	CCNA Exam #640-802	DCASI Implementing Cisco Data Center Application Services	DCASI Exam #642-975		

Advanced Data Center Storage Networking

Achieving the Advanced Data Center Storage Networking Specialization boosts your company's value with customers by enhancing your ability to deliver advanced storage networking solutions.

ADVANCED DATA CENTER STORAGE NETWORKING				
Job Role	Cisco Career Certification	Prerequisites	Recommended Training	Exam
AM	Cisco Data Center Solution Sales Specialist	CSE Exam #646-204	DCSS Cisco Data Center Solutions Sales Web-based Training	DCNS Exam #646-976
SE	Cisco Data Center Storage Networking Design Specialist	None	DCSNS Designing Cisco Storage Networking Solutions	CSSDS Exam #642-355
FE	Cisco Data Center Storage Networking Support Specialist	None	ICSNS Implementing Cisco Storage Networking Solutions IASNS Implementing Cisco Advanced Storage Networking Solutions	CSSSS Exam #642-356

Cisco Data Center Courses Network Infrastructure

Data Center Network Infrastructure Design (DCNID)

PREREQUISITES

 Designing for Cisco Internetwork Solutions (DESGN), Implementing Cisco IOS Network Security (IINS), Security Solutions for System Engineers (SSSE) courses

COURSE OBJECTIVES

This course enables the student to create a Data Center network design that optimizes availability, scalability, performance, and

ID CI-DCNID Price 3.290,00 EUR Duration 5 Days

security, using the Nexus Products, Catalyst 6500, Catalyst 4948, Firewall Services Module, Intrusion Detection Services Module, and Network Analysis Module.

SCHE	DULE		
Germany Frankfurt Frankfurt Hamburg Berlin	13.1017.10.08 09.0213.02.09 20.0424.04.09 15.0619.06.09	Russia Moscow Switzerland Zurich	22.0926.09.08 04.0508.05.09

Implementing Cisco Data Center Network Infrastructure 1 (DCNI-1) ID CI-DCNI-1 Price 2.990,00 EUR Duration 5 Days

PREREQUISITES

• CCNP or CCIE Routing & Switching certification

COURSE OBJECTIVES

The goal of this course is to enable customers to build scalable, reliable, and intelligent Data Center networks using Cisco Catalyst 6500 Series switches, Cisco Catalyst 4900 Series top-of-rack switches, and to a lesser degree also Blade switches.

SCHE	DULE		
Germany Hamburg	08 09 -12 09 08	Munich Hamburg	30.0303.04.09 04.0508.08.09
Hamburg	15.0919.09.08	Duesseldorf	15.0619.06.09
Hamburg Frankfurt	01.1205.12.08	Moscow	29.0903.10.08
Hamburg Hamburg	15.12-19.12.08 02.0206.02.09	Switzerland Zurich	11.0515.05.09
Frankfurt	02.0306.03.09		

Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2) ID CI-DCNI-2 Price 2.690,00 EUR Duration 4 Days

PREREQUISITES

 Interconnecting Cisco Network Devices (ICND), Building Cisco Multilayer Switched Networks (BCMSN), Building Scalable Cisco Internetworks (BSCI), Implementing Secure Converged Wide Area Networks (ICSW) courses

COURSE OBJECTIVES

This hands-on training teaches you how to implement an enterprise Data Center routing and switching infrastructure with the next-generation Cisco Nexus 7000 and 5000 platforms. The course provides a technical overview of the Nexus platform architecture, deployment, and operations, including Virtual Device Contexts, Layer 2 and Layer 3 features, QoS, and security. You will explore the

Designing Data Center Application Services (DCASD)

PREREQUISITES

 Basic understanding of: TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, Server load-balancing

COURSE OBJECTIVES

This course teaches you how to deploy and configure intelligent network services using the Cisco ACE Products, Catalyst 6500

Implementing Data Center Application Services (DCASI)

PREREQUISITES

4

• Basic understanding of: TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, Server load-balancing

COURSE OBJECTIVES

This course teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control

features of NX-OS and the Nexus platform by performing hands-on labs using a Nexus 7000 simulator.

SCHEDULE	
Germany Frankfurt 07.1010.10.00 Hamburg 02.1205.12.00 Hamburg 17.0220.02.00 Munich 14.0417.04.00 Berlin 02.0605.06.00 Frankfurt 23.0626.06.00 Russia 06.1009.10.00	9 9 9 9



Application Control Engine (ACE) 4710

S C H E D U L E Germany 03.1107.11.08 Frankfurt 04.0508.05.09 Hamburg 03.1107.11.08 Moscow 22.0926.09.08 Hamburg 02.0206.02.09 Switzerland 21.0926.09.08 Munich 23.0327.03.09 Switzerland 16.0220.02.09	ripplication		/ 1/ 10.	
Hamburg 03.1107.11.08 Russia Frankfurt 08.1212.12.08 Moscow 22.0926.09.08 Hamburg 02.0206.02.09 Switzerland Switzerland	SCHE	DULE		
	Hamburg Frankfurt Hamburg	08.1212.12.08 02.0206.02.09	Russia Moscow Switzerland	22.0926.09.08

ID CI-DCASI Price 2.990,00 EUR Duration 5 Days

ID CI-DCASD Price 2.990,00 EUR Duration 5 Days

Engine (ACE) Appliance, Service Module v2.0 and GSS. This course covers all of the key features of the ACE 2.0 software.

SCHE	DULE		
<mark>Germany</mark> Frankfurt	10.1114.11.08	Frankfurt Russia	22.0626.06.09
Berlin	16.0320.03.09	Moscow	15.0919.09.08

Cisco Data Center Courses Storage Networking

Designing Cisco Storage Networking Solutions (DCSNS)

ID CI-DCSNS Price 2.890,00 EUR Duration 5 Days

PREREQUISITES

 Basic understanding of data storage hardware components and protocols, including SCSI and Fibre Channel

COURSE OBJECTIVES

This course enables the student to design enterprise Cisco MDS 9000 solutions that include core Fibre Channel SANs, iSCSI for mid-range applications, and SAN extension solutions.



Implementing Cisco Storage Networking Solutions (ICSNS)

PREREQUISITES

• Basic understanding of data storage hardware components and protocols, including SCSI and Fibre Channel

COURSE OBJECTIVES

This course enables the student to describe and configure the hardware and software components of the Cisco MDS 9000



S С Н Е	DULE		
Bulgaria		Serbia	
Sofia	03.1107.11.08	Belgrade	06.1010.10.08
Germany		Slovenia	
Hamburg	15.0919.09.08	Ljubljana	15.0919.09.08
Hamburg	03.1107.11.08	Ljubljana	01.1205.12.08
Berlin	01.1205.12.08	Sweden	
Berlin	02.0206.02.09	Stockholm	06.1010.10.08
Hamburg	23.0327.03.09	Switzerland	
Frankfurt	04.0508.05.09	Zurich	17.1121.11.08
Berlin	15.0619.06.09	Turkey	
Poland		Istanbul	01.0905.09.08
Warsaw	29.0903.10.08	Istanbul	24.1128.11.08

ID CI-ICSNS Price 2.990,00 EUR Duration 5 Days

product family, focusing on key technologies and features that apply to departmental, mid-range, and enterprise SANs. The ICSNS course combines MDSCT and CMSE into a single course, updated for SAN-OS 2.1, 3.0, and with basic networking content added.

SCHEE	DULE		
Bulgaria		Serbia	
Sofia	10.1114.11.08	Belgrade	13.1017.10.08
Germany		Slovenia	
Hamburg	22.0926.09.08	Ljubljana	22.0926.09.08
Hamburg	10.1114.11.08	Ljubljana	08.1212.12.08
Berlin	08.1212.12.08	Sweden	
Munich	02.0206.02.09	Stockholm	08.0912.09.08
Hamburg	02.0306.03.09	Stockholm	17.1121.11.08
Berlin	04.0508.05.09	Switzerland	
Frankfurt	08.0612.06.09	Zurich	06.1010.10.08
Poland		Zurich	01.0605.06.09
Warsaw	06.1010.10.08	Turkey	
Russia		Istanbul	08.0912.09.08
Moscow	20.1024.10.08	Istanbul	01.1205.12.08

Implementing Cisco Advanced Storage Networking Solutions (IASNS) ID CI-IASNS Price 2.990,00 EUR Duration 5 Days

PREREQUISITES

 Implementing Cisco Storage Networking Solutions (ICSNS) course

COURSE OBJECTIVES

This course enables the student to implement advanced Cisco MDS 9000 technologies and features that apply primarily to



enterprise SANs, and troubleshoot common SAN problems and configuration errors. This course merges CASI and CMSE, including updates for SAN-OS 2.1 and 3.0.

SCHE	DULE			
Bulgaria		Russia		
Sofia	17.1121.11.08	Moscow	27.1031.10.08	
Germany		Serbia		
Hamburg	06.1010.10.08	Belgrade	27.1031.10.08	
Hamburg	17.1121.11.08	Slovenia		
Berlin	15.1219.12.08	Ljubljana	06.1010.10.08	
Frankfurt	09.0213.02.09	Ljubljana	15.1219.12.08	
Hamburg	09.0313.03.09	Sweden		
Berlin	30.0303.04.09	Stockholm	03.1107.11.08	
Hamburg	11.0515.05.09	Switzerland		
Munich	15.0619.06.09	Zurich	08.0912.09.08	
Poland		Turkey		
Warsaw	13.1017.10.08	Istanbul	15.0919.09.08	
		Istanbul	15.1219.12.08	
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Cisco Data Center Courses Application Networking Services

Wide Area Application Services (WAAS)

PREREQUISITES

- Interconnecting Cisco Network Devices 1 (ICND1) course
- Familiarity with Microsoft networking technologies

COURSE OBJECTIVES

This course teaches you about the business value of WAN optimization and application acceleration technologies. You will learn how to design a basic WAAS deployment and configure WAE devices, including traffic optimizations and file and print services.

SCHED	ULE		
Germany Duesseldorf Frankfurt Berlin Hamburg	26.1128.11.08 18.0220.02.09 06.0408.04.09 03.0605.06.09	Serbia Belgrade Slovenia Ljubljana Sweden	03.1105.11.08 13.1015.10.08
Netherlands Utrecht Poland Warsaw	10.1112.11.08 20.1022.10.08	Stockholm Stockholm Stockholm Switzerland	03.0905.09.08 27.1029.10.08 08.1210.12.08
Russia Moscow	17.1119.11.08	Zurich <mark>Turkey</mark> Istanbul	26.1128.11.08 22.0924.09.08

ID CI-WAAS Price 2.190,00 EUR Duration 3 Days

Implementing the Application Control Engine Service Module (ACESM) ID CI-ACESM Price 2.490,00 EUR Duration 4 Days

PREREQUISITES

 Basic understanding of: TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, Server load-balancing



COURSE OBJECTIVES

This course teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Service Module for Catalyst 6500 switches. The course covers all of the key features of the ACE 2.0 software, including resource virtualization and management, server load

balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features like application-layer inspection and fixups.

S C H E	DULE		
Germany		Serbia	
Duesseldorf	04.1107.11.08	Belgrade	10.1113.11.08
Frankfurt	10.0213.02.09	Slovenia	
Munich	14.0417.04.09	Ljubljana	20.1023.10.08
Hamburg	16.0619.06.09	Sweden	
Netherlands		Stockholm	14.1017.10.08
Utrecht	08.0911.09.08	Switzerland	
Poland		Zurich	17.0220.02.09
Warsaw	27.1030.10.08	Turkey	
		Istanbul	20.1023.10.08

Designing an Enterprise Application Infrastructure with the ACE Family (ACEDES) ID CI-ACEDES Price 2.490,00 EUR Duration 4 Days

PREREQUISITES

 Basic understanding of: TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, Server load-balancing

COURSE OBJECTIVES

In this course you will learn how to deploy and configure intelligent network services using the Catalyst 6500 Application Control Engine (ACE), the next generation form factor of ACE, GSS and AVS. The course covers all of the key features of the ACE products, including resource virtualization and management, server load balancing, SSL termination and offload, and security features. The focus is on enabling the student to properly position the ACE products in the network for optimizing data center components and network resources.

SCHE	DULE		
Germany Frankfurt	28.1031.10.08	Hamburg Switzerland	12.0515.05.09
Berlin	17.0320.03.09	Zurich	23.0626.06.09

Cisco Application Control Engine Appliance (ACEAP) ID CI-ACEAP Price 2.490,00 EUR Duration 4 Days

PREREQUISITES

 Basic understanding of: TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, Server load-balancing

SCHEDULE

3 0 11 2	0011		
Germany		Berlin	23.0626.03.09
Frankfurt	18.1121.11.08	Switzerland	1702 20 02 00
Frankfurt	10.0313.03.09	Zurich	17.0220.02.09

COURSE OBJECTIVES

This course teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Appliance. The course covers all of the key features of the ACE 2.0 software, including resource virtualization and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features.

ACE XML Gateway Operations and Configuration (AXGOC)

PREREQUISITES

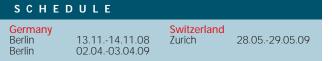
• Basic understanding of: TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, Server load-balancing

COURSE OBJECTIVES

This course teaches you how to design and deploy the ACE XML Gateway to optimize web content management. The course $% \left({{\left({{\rm{ACE}} \right)} \right)} \right)$

covers all of the key features of the ACE XML Gateway including maximizing application scalability, securly acclerating performance of Web services, and reducing costs of provisioning services.

ID CI-AXGOC Price 1.290,00 EUR Duration 2 Days



All Prices excl. VAT

Cisco Data Center Courses Sales & Pre-Sales

Cisco MDS 9000 Technical Pre-Sales Training (CMDSPS)

PREREQUISITES

Basic understanding of storage technologies

COURSE OBJECTIVES

This course provides the participants with a comprehensive overview of the actual Cisco MDS solutions (e.g. Virtual SANs (VSANs), Switch Port Analyzer (SPAN), and iSCSI Solutions) including their installation. A special focus is given to the key differentiators between Cisco and its competition in terms of architecture, management, and implementation. With Lab: Configuration and verification with both CLI and GUI (Fabric/Device Manager) of the following features: Initial installation/configuration of an MDS Switch, initial installation of Fabric/Device Manager, configuration of VSANs, zoning, PortChannels and more.

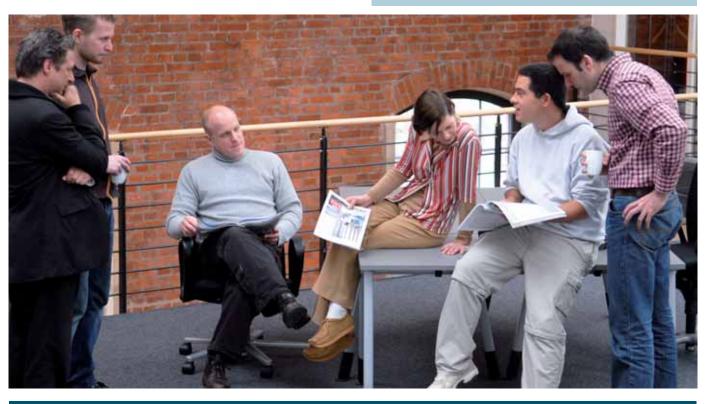
SCHEDULE

Germany	
Duesseldorf	20.10
rankfurt	12.02

Berlin -21.10.08 <mark>Switzerland</mark> -13.02.09 Zurich

ID FL-CMDSPS Price 1.200,00 EUR Duration 2 Days

23.04.-24.04.09 05.03.-06.03.09



Cisco Data Center Overview (CDC)

PREREQUISITES

None

COURSE OBJECTIVES

In this compact 1-day course, the students will gain a comprehensive understanding for the typical challenges of a Data Center. Participants will learn about the different applications in a Data Center and the according Cisco solutions to be able to communicate effectively with the different DC contact persons.

SCHEDULE			
Germany Hamburg	18.11.2008	Hamburg Switzerland	22.05.2009
Berlin	27.02.2009	Zurich	06.02.2009



ID FL-CDC Price 590,00 EUR Duration 1 Day

About Fast Lane



High-end-IT-Training and Consulting

We can help your company gain and develop all the technology skills it needs to rise to high-end challenges. After all, technology is the tool and only those who master it can capitalize on its benefits. Our customers and partners rely on us, and for very good reasons.

Fast Lane provides the network know-how you need. Voice and unified communications, security and VPN, data centers and storage networking, wireless networking or optical technologies – whatever specialized insight, skills, and consulting you may need, Fast Lane has the right expert for you.

Fast Lane is there for you in 41 countries across all continents. More than 300 Fast Lane employees train and advise major companies in all industries, leading service providers, and government agencies in twelve languages. Serving customers worldwide, Fast Lane head offices are sited in Berlin, Cary NC, Dubai, Sydney, and Tokyo.

Fast Lane is one of the leading Cisco Learning Solutions Partners worldwide. The fastest growing Cisco Learning Solutions Partner (CLSP), Fast Lane offers you the full Cisco training curriculum, from entry-level to specialized high-end courses, in all regions across the globe.

Fast Lane is the only global NetApp Learning Partner. An authorized NetApp training partner, Fast Lane offers original NetApp training programs worldwide. NetApp-certified specialists with extensive storage experiences conduct the training.

Fast Lane has developed courses of its own covering all key future technologies. What's more, our offering comprises many other vendors and organizations' training programs, for example, Brocade, CA, Check Point, Citrix, CompTIA, HP, ITIL, Lotus, LPI, Microsoft, Nokia, Novell, Oracle, PMI, PRINCE2[™], Red Hat, RSA Security, SAP, Sun, Symantec/Veritas, Trend Micro, and VMware.

Fast Lane gives you access to a lab infrastructure unrivalled worldwide. Fast Lane customers enjoy the use of training and demo labs for all areas of high-end networking. Equipped with the latest devices and technologies, our high-end labs provide first-rate service and raise the bar for training quality. Our project consultants can access these labs from any location.

Fast Lane services satisfy the most discerning demands. A comprehensive evaluation system ensures Fast Lane lives up to the most rigorous quality standards. With professional experience and excellent teaching skills, all our instructors and consultants transfer knowledge efficiently and effectively.

Fast Lane employees' response is swift and courteous. Rest assured you will always enjoy friendly, competent service and a quick response to your every request, even at shortest notice. For example, we can deploy troubleshooting experts within a few hours and organize on-site training including a coach, equipment, and course materials within 24 hours.





Authorized Learning Partner



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Ludwig-Erhard-Strasse 3 D - 65760 Eschborn Tel. +49 (0)6196 8820410 Fax +49 (0)6196 8820419 info@flane.de / www.flane.de

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