

Hands-on Cisco Service Provider Training

- IPv6 for Service Providers
- Service Provider Routing
- Cisco QoS
- BGP on Cisco Routers
- Cisco Multicast
- Cisco MPLS
- Cisco Catalyst 6500
- Advanced Services



**Including
Pan-European
Schedule
2012!**

Contents

IPv6 Fundamentals, Design & Deployment (IP6FD)	3
Introduction to IPv6 for Service Providers (IPV6SPAM)	4
Implementing IPv6 Solutions for Service Providers (IPV6SPSE)	4
Implementing Cisco QoS (QOS)	5
Designing Service Provider Cisco QoS (SPQOS)	5
Configuring BGP on Cisco Routers (BGP)	6
Implementing Cisco Multicast (MCAST)	6
Implementing Cisco MPLS (MPLS)	7
Implementing MPLS Traffic Engineering (MPLST)	8
MPLS Expert Workshop (MEWS)	8
Advanced Services Education	9
Cisco Catalyst 6500 Training (RSCAT6K, VSS, CAT6KVSS, CAT6KS, FWSMD)	10



Authorised Cisco Training

You are a Service Provider, responsible for maintaining focus on both excellent technological and daily operating efficiency? Then simply get the best training for your experts to profit from the exciting latest technologies as well as to stabilize the basic skills needed in a highly demanding, complex and ever renewing field of technologies.

Fast Lane's training offerings are as multifaceted as the diverse Cisco technologies and specialised solutions your company and workforce need.

CISCO COMPLETE

Fast Lane offers the full range of Cisco training, from entry-level to high-end specialty courses. We can ensure you are prepared to master the challenges of Cisco certification and specialisation.

CISCO EUROPEAN LEARNING PARTNER OF THE YEAR 2009, 2010 & 2011

Fast Lane received the 'Cisco European Learning Partner of the Year' award for three years in a row.

TOP COACHES

Whatever specialised insight, skills, and consulting you may need, Fast Lane has the right expert and training for you. All our instructors are Cisco-certified specialists with extensive practical experience in their specialty fields.

RIGHT THERE ON SITE

We offer regularly scheduled training in many European locations to help you plan and implement your training program to your best benefit. Our certified instructors will also conduct every type of training session on site at your company's premises.

ADVANCED TECHNOLOGY LABS

Putting hands-on exercises and the latest Cisco equipment to good use, we convey the knowledge you need to operate complex network infrastructures.

CONTACT US

Feel free to contact your nearest Fast Lane location if you have any questions about our offering - we'll be delighted to hear from you. You can find the contact details on the back cover.



IPv6 Fundamentals, Design & Deployment (IP6FD)

ID CI-IP6FD **Price** 2.690,00 EUR / 1.995,00 GBP (excl. VAT) **Duration** 5 Days

This overview of IPv6 looks at fundamental theory as well as provides a strong foundation in designing and deploying IPv6 leveraging the IPv6-ready Cisco IOS. Students get hands-on experience configuring routers and clients for IPv6, and leave with a plan for how to meet the challenges of migration.

PREREQUISITES

- Routing, switching and access product knowledge and skills
- Working knowledge of routing protocols

COURSE CONTENT

- Introduction to IPv6
 - Explaining the Rationale for IPv6
 - Evaluating IPv6 Features and Benefits
 - Understanding Market Drivers
- IPv6 Operations
 - Understanding the IPv6 Addressing Architecture
 - Describing the IPv6 Header Format
 - Enabling IPv6 on Hosts
 - Enabling IPv6 on Cisco Routers
 - Using ICMPv6 and Neighbor Discovery
 - Troubleshooting IPv6
- IPv6 Services
 - IPv6 Mobility
 - Describing DNS in an IPv6 Environment
 - Understanding DHCPv6 Operations
 - Understanding QoS Support in an IPv6 Environment
 - Using Cisco IOS Software Features
- IPv6-Enabled Routing Protocols
 - Routing with RIPng
 - Examining OSPFv3
 - Examining Integrated IS-IS
 - Examining EIGRP for IPv6
 - Understanding MP-BGP
- Configuring IPv6 Policy-Based Routing
- Configuring FHRP for IPv6
- Configuring Route Redistribution
- IPv6 Multicast Services
 - Implementing Multicast in an IPv6 Network
 - Using IPv6 MLD
- IPv6 Transition Mechanisms
 - Implementing Dual-Stack
 - Describing IPv6 Tunneling Mechanisms
- IPv6 Security
 - Configuring IPv6 ACLs
 - Using IPsec, IKE, and VPNs
 - Discussing Security Issues in an IPv6 Transition Environment
 - Understanding IPv6 Security Practices
 - Configuring Cisco IOS Firewall for IPv6
- Deploying IPv6
 - Examining IPv6 Address Allocation
 - Understanding the IPv6 Multihoming Issue
 - Identifying IPv6 Enterprise Deployment Strategies
- IPv6 and Service Providers
 - Identifying IPv6 Service Provider Deployment
 - Understanding Support for IPv6 in MPLS
 - Understanding 6VPE
 - Understanding IPv6 Broadband Access Services
- IPv6 Case Studies
 - Planning and Implementing IPv6 in Enterprise Networks
 - Planning and Implementing IPv6 in Service Provider Networks
 - Planning and Implementing IPv6 in Branch Networks



SCHEDULE Belgium	Stuttgart	02.04.-05.04.12	Rome	12.03.-16.03.12	SCHEDULE Spain	
Brussels E 12.03.-16.03.12	Duesseldorf	16.04.-20.04.12	Milan	02.04.-06.04.12	Madrid	30.01.-03.02.12
Brussels E 25.06.-29.06.12	Berlin	23.04.-27.04.12	Rome	04.06.-08.06.12	Madrid	18.06.-22.06.12
SCHEDULE Denmark	Munich	07.05.-11.05.12	Milan	02.07.-06.07.12	Madrid	26.11.-30.11.12
Copenhagen E 16.01.-20.01.12	Hamburg	28.05.-01.06.12	Rome	22.10.-26.10.12	SCHEDULE Sweden	
Arhus E 26.03.-30.03.12	Frankfurt	E 18.06.-22.06.12	Milan	26.11.-30.11.12	Stockholm	23.01.-27.01.12
Copenhagen E 21.05.-25.05.12	Hamburg	09.07.-13.07.12	SCHEDULE Netherlands		Gothenburg	26.03.-30.03.12
Copenhagen	Munich	30.07.-03.08.12	Utrecht	E 12.03.-16.03.12	Stockholm	28.05.-01.06.12
Arhus	Berlin	13.08.-17.08.12	Utrecht	E 25.06.-29.06.12	Stockholm	20.08.-24.08.12
Copenhagen	Hamburg	03.09.-07.09.12	SCHEDULE Norway		Gothenburg	17.09.-21.09.12
Arhus	Munich	17.09.-21.09.12	Oslo	E 20.02.-24.02.12	Stockholm	08.10.-12.10.12
Copenhagen	Stuttgart	24.09.-28.09.12	Oslo	E 18.06.-22.06.12	Stockholm	26.11.-30.11.12
SCHEDULE France	Frankfurt	E 15.10.-19.10.12	Oslo	24.09.-28.09.12	SCHEDULE Switzerland	
Paris	Munich	05.11.-09.11.12	SCHEDULE	19.11.-23.11.12	Zurich	16.04.-20.04.12
Paris	Stuttgart	12.11.-16.11.12	SCHEDULE Portugal		Zurich	03.09.-07.09.12
Paris	Hamburg	19.11.-23.11.12	Lisbon	09.01.-13.01.12	Zurich	26.11.-30.11.12
Paris	Duesseldorf	03.12.-07.12.12	Lisbon	11.06.-15.06.12	SCHEDULE United Kingdom	
Paris	Berlin	E 10.12.-14.12.12	Lisbon	05.11.-09.11.12	London	E 26.03.-30.03.12
SCHEDULE Germany	Berlin	10.12.-14.12.12	SCHEDULE Slovenia		London	E 03.09.-07.09.12
Hamburg	Frankfurt	17.12.-21.12.12	Ljubljana	E 26.03.-30.03.12		
Duesseldorf	SCHEDULE Italy		Ljubljana	E 08.10.-12.10.12		
Berlin	Milan	16.01.-20.01.12				
Munich						
Frankfurt						
Hamburg						

Introduction to IPv6 for Service Providers (IPV6SPAM)

ID FL-IPV6SPAM **Price** 1.390,00 EUR (excl. VAT) **Duration** 2 Days

In the Service Provider community, IPv6 is already a very pressing concern; content, devices and applications are being developed with IPv6 in mind, with some product coming to market based on IPv6 by default. This 2 day lecture based course covers the risks and opportunities proposed by transitioning a Service Provider organization from IPv4 to supporting IPv6.

PREREQUISITES

- Basic familiarity with IPv4 routing and switching, preferably at the CCNA or CCDA level of understanding

COURSE CONTENT

- Introduction to IPv6: Explaining the Rationale for IPv6; Evaluating IPv6 Features & Benefits; Understanding Market Drivers
- IPv6 Operations: Understanding the IPv6 Addressing Architecture; Describing the IPv6 Header Format; Enabling IPv6 on Cisco Routers; Using ICMPv6 and Neighbor Discovery
- IPv6 Services: IPv6 Mobility; Describing DNS in an IPv6 Environment; Understanding DHCPv6 Operations

- IPv6-Enabled Routing Protocols: Examining OSPFv3; Examining Integrated IS-IS; Understanding MP-BGP; Configuring FHRP for IPv6
- IPv6 Multicast Services: Implementing Multicast in an IPv6 Network
- Transition to IPv6
- Introduction to IPv6 Security: Understanding IPv6 Security; Discussing Security Issues in an IPv6 Transition Environment; Understanding IPv6 Security Practices
- IPv6 Services: IPv6 Mobility; Describing DNS in an IPv6 Environment; Understanding DHCPv6 Operations; Understanding QoS Support in an IPv6 Environment

SCHEDULE Italy

Milan	02.05.-03.05.12
Rome	27.06.-28.06.12
Milan	03.10.-04.10.12
Rome	05.12.-06.12.12

Munich **E** 23.05.-24.05.12

Stuttgart 27.06.-28.06.12

Berlin **E** 25.07.-26.07.12

Duesseldorf 22.08.-23.08.12

Frankfurt **E** 12.09.-13.09.12

Hamburg 24.10.-25.10.12

Munich **E** 14.11.-15.11.12

Stuttgart 12.12.-13.12.12

E Training in English

SCHEDULE Germany

Duesseldorf	15.02.-16.02.12
Frankfurt	E 21.03.-22.03.12
Hamburg	12.04.-13.04.12

Implementing IPv6 Solutions for Service Providers (IPV6SPSE)

ID FL-IPV6SPSE **Price** 3.290,00 EUR (excl. VAT) **Duration** 5 Days

This exclusive course covers the range of Cisco Products and solutions pertinent to IPv6 in a Service Provider environment, including carrier grade NAT, global routing protocols (in particular, MPBGP) and the Nexus and CSR products. As this course is intended for SEs at Cisco Channel Partners and network engineers and architects at Service Providers, the focus is on designing and implementing the solutions, rather than administering and troubleshooting. While this course covers the fundamental issues, theories and skills relevant to IPv6 in general, it pays particular attention to the problem sets among service providers, and applies proven Cisco solutions to migrate networks from IPv4 to IPv6.

PREREQUISITES

- CCNA or equivalent in experience
- Firm grasp of IPv4 routing, switching and related concepts

COURSE CONTENT

- Introduction to IPv6
 - Explaining the Rationale for IPv6
 - Evaluating IPv6 Features and Benefits
 - Understanding Market Drivers
 - Service Providers and IPv6
- IPv6 Operations
 - Understanding the IPv6 Addressing Architecture
 - Describing the IPv6 Header Format
 - Enabling IPv6 on Cisco Routers
 - Using ICMPv6 and Neighbor Discovery
- IPv6 Services
 - Describing DNS in an IPv6 Environment
 - Understanding DHCPv6 Operations



- Understanding QoS Support in an IPv6 Environment
- Using Cisco IOS Software Features
- IPv6-Enabled Routing Protocols
 - Examining OSPFv3
 - Examining Integrated IS-IS
 - Examining EIGRP for IPv6
 - Understanding MP-BGP
 - Configuring IPv6 Policy-Based Routing
 - Configuring FHRP for IPv6
 - Configuring Route Redistribution
- IPv6 Multicast Services
 - Implementing Multicast in an IPv6 Network
 - Using IPv6 MLD
- IPv6 Transition Mechanisms
 - Implementing Dual-Stack
 - Describing IPv6 Tunneling Mechanisms
- IPv6 Security
 - Configuring IPv6 ACLs
- Deploying IPv6
 - Examining IPv6 Address Allocation
 - Understanding the IPv6 Multihoming Issue
 - Identifying IPv6 Enterprise Deployment Strategies
- IPv6 and Service Providers
 - Identifying IPv6 Service Provider Deployment
 - Understanding Support for IPv6 in MPLS
 - Understanding 6VPE

SCHEDULE Germany

Berlin	30.01.-03.02.12
Duesseldorf	20.02.-24.02.12
Frankfurt	E 26.03.-30.03.12
Hamburg	16.04.-20.04.12
Munich	E 29.05.-01.06.12
Stuttgart	02.07.-06.07.12

Berlin **E** 30.07.-03.08.12

Duesseldorf 27.08.-31.08.12

Frankfurt **E** 17.09.-21.09.12

Hamburg 29.10.-02.11.12

Munich **E** 19.11.-23.11.12

Stuttgart 17.12.-21.12.12

E Training in English

Implementing Cisco QoS (QOS)

ID CI-QOS **Price** 2.750,00 EUR / 2.025,00 GBP (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2) course

COURSE CONTENT

- Introduction to QoS: Understanding the Need for QoS; Understanding QoS; Implementing QoS
- The Building Blocks of QoS: Identifying Models for Implementing QoS; Integrated Services Model; Differentiated Services Model; Identifying QoS Mechanisms
- Introduction to MQC and Cisco AutoQoS: Modular QoS CLI; Cisco AutoQoS VoIP; Cisco AutoQoS for the Enterprise
- Classification and Marking: Understanding Classification and Marking; Using MQC for Classification; Using MQC for Class-Based Marking; Using NBAR for Classification; Configuring QoS Preclassify; Configuring QoS Policy Propagation via BGP; Configuring LAN Classification and Marking; Understanding QoS in the Life of a Packet
- Congestion Management: Introducing Queuing; Understanding Queuing Implementations; Configuring FIFO & WFQ; Configuring CBWFQ and LLQ; Configuring LAN Congestion Management

- Congestion Avoidance: Introducing Congestion Avoidance; Introducing RED; Configuring Class-Based Weighted RED; Configuring Explicit Congestion Notification
- Traffic Policing and Shaping: Understanding Traffic Policing and Shaping; Configuring Class-Based Policing; Configuring Class-Based Shaping; Configuring Class-Based Shaping on Frame Relay Interfaces; Frame Relay Voice-Adaptive Traffic Shaping & Fragmentation
- Link Efficiency Mechanisms: Understanding Link Efficiency Mechanisms; Configuring Class-Based Header Compression; Configuring Link Fragmentation and Interleaving
- QoS Best Practices: Understanding Traffic Classification Best Practices; Deploying End-to-End QoS; Providing QoS for Security



SCHEDULE Belgium

Brussels **E** 23.01.-27.01.12
Brussels **E** 21.05.-25.05.12

SCHEDULE Bulgaria

Sofia **E** 30.01.-03.02.12

SCHEDULE Denmark

Copenhagen 27.02.-02.03.12
Copenhagen 23.04.-27.04.12
Copenhagen 10.09.-14.09.12
Copenhagen 29.10.-02.11.12

SCHEDULE France

Paris 05.03.-09.03.12
Paris 04.06.-08.06.12

SCHEDULE Germany

Berlin 09.01.-13.01.12
Nuremberg 16.01.-20.01.12
Munich **E** 16.01.-20.01.12
Duesseldorf 30.01.-03.02.12
Frankfurt 13.02.-17.02.12
Stuttgart 27.02.-02.03.12
Cologne 12.03.-16.03.12
Leipzig 19.03.-23.03.12
Berlin **E** 19.03.-23.03.12

Munich 02.04.-05.04.12
Duesseldorf 10.04.-13.04.12
Frankfurt 16.04.-20.04.12
Hamburg 07.05.-11.05.12
Hannover 07.05.-11.05.12
Berlin 29.05.-01.06.12
Munich 18.06.-22.06.12
Stuttgart 02.07.-06.07.12
Frankfurt 16.07.-20.07.12
Hamburg **E** 23.07.-27.07.12
Berlin 30.07.-03.08.12
Muenster 20.08.-24.08.12
Duesseldorf 20.08.-24.08.12
Frankfurt 03.09.-07.09.12
Cologne 17.09.-21.09.12
Stuttgart 24.09.-28.09.12
Berlin 08.10.-12.10.12
Leipzig 08.10.-12.10.12
Frankfurt **E** 29.10.-02.11.12
Hamburg 12.11.-16.11.12
Hannover 12.11.-16.11.12
Munich 19.11.-23.11.12
Duesseldorf 26.11.-30.11.12

Frankfurt 10.12.-14.12.12

Berlin **E** 17.12.-21.12.12

SCHEDULE Italy

Milan 19.03.-23.03.12
Rome 18.06.-22.06.12
Milan 15.10.-19.10.12
Rome 03.12.-07.12.12

SCHEDULE Netherlands

Utrecht **E** 30.01.-03.02.12
Utrecht **E** 21.05.-25.05.12

SCHEDULE Norway

Oslo 13.02.-17.02.12
Oslo 11.06.-15.06.12
Oslo 24.09.-28.09.12
Oslo 03.12.-07.12.12

SCHEDULE Portugal

Lisbon 07.05.-11.05.12
Lisbon 02.07.-06.07.12
Lisbon 05.11.-09.11.12

SCHEDULE Serbia

Belgrade **E** 01.10.-05.10.12

SCHEDULE Slovenia

Ljubljana **E** 04.06.-08.06.12

SCHEDULE Spain

Madrid 16.01.-20.01.12
Madrid 14.05.-18.05.12
Madrid 09.07.-13.07.12
Madrid 26.11.-30.11.12

SCHEDULE Sweden

Stockholm 20.02.-24.02.12
Stockholm 21.05.-25.05.12
Stockholm 17.09.-21.09.12
Stockholm 05.11.-09.11.12

SCHEDULE Switzerland

Zurich 26.03.-30.03.12
Zurich 25.06.-29.06.12
Zurich 27.08.-31.08.12
Zurich 05.11.-09.11.12

SCHEDULE United Kingdom

London **E** 19.03.-23.03.12
Cirencester **E** 16.04.-20.04.12
London **E** 02.07.-06.07.12
Cirencester **E** 30.07.-03.08.12
London **E** 05.11.-09.11.12
Cirencester **E** 03.12.-07.12.12
E Training in English

Designing Service Provider Cisco Quality of Service (SPQOS)

ID CI-SPQOS **Price** 2.290,00 EUR (excl. VAT) **Duration** 4 Days

PREREQUISITES

- Interconnecting Cisco Network Devices Part 2 (ICND2) and Implementing Cisco IP Routing (ROUTE) courses
- Familiarity with MPLS and QoS concepts recommended

COURSE CONTENT

- Quality of Service structure
- Tools used within Cisco IOS to deploy and manage Quality of Service in complex networks
- Cisco QoS Baseline
- Identify and manage the QoS factors that directly affect Voice traffic, both for Call (bearer traffic) and Call Signaling
- Provision QoS for Interactive-Video and for Streaming Video

- Provision QoS for data traffic
- MPLS VPN services for full-mesh connectivity
- Three-Class, Four-Class and Five-Class QoS models with traffic priorities and classifications
- Concepts and features of SP SLA requirements for applications within different traffic models
- Typical QoS configurations for Frame-Relay access

SCHEDULE Germany

Frankfurt 14.02.-17.02.12
Berlin **E** 13.03.-16.03.12
Stuttgart 10.04.-13.04.12
Munich 08.05.-11.05.12
Hamburg 29.05.-01.06.12
Frankfurt **E** 17.07.-20.07.12

Berlin 11.09.-14.09.12
Munich **E** 16.10.-19.10.12
Hamburg **E** 27.11.-30.11.12

SCHEDULE Switzerland

Zurich 18.06.-21.06.12
Zurich 12.11.-15.11.12
E Training in English

Configuring BGP on Cisco Routers (BGP)

ID CI-BGP **Price** 2.790,00 EUR / 2.025,00 GBP (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2) and Implementing Cisco IP Routing (ROUTE) courses

COURSE CONTENT

- BGP Overview
- BGP Transit Autonomous Systems
- Route Selection Using Policy Controls
- Route Selection Using Attributes
- Customer to Provider Connectivity with BGP
- Scaling Service Provider Networks
- Optimizing BGP Scalability



SCHEDULE Belgium	Stuttgart	02.04.-05.04.12	Utrecht	E 19.03.-23.03.12	Stockholm	13.02.-17.02.12
Brussels E 23.01.-27.01.12	Berlin	E 07.05.-11.05.12	Utrecht	E 18.06.-22.06.12	Stockholm	07.05.-11.05.12
Brussels E 19.03.-23.03.12	Duesseldorf	18.06.-22.06.12	SCHEDULE Norway		Stockholm	10.09.-14.09.12
Brussels E 18.06.-22.06.12	Munich	E 02.07.-06.07.12	Oslo	06.02.-10.02.12	Stockholm	29.10.-02.11.12
SCHEDULE Bulgaria	Munich	23.07.-27.07.12	Oslo	21.05.-25.05.12	Stockholm	17.12.-21.12.12
Sofia E 05.11.-09.11.12	Frankfurt	20.08.-24.08.12	Oslo	17.09.-21.09.12	SCHEDULE Switzerland	
SCHEDULE Denmark	Berlin	24.09.-28.09.12	Oslo	26.11.-30.11.12	Zurich	30.01.-03.02.12
Copenhagen	Frankfurt	08.10.-12.10.12	SCHEDULE Portugal		Zurich	13.08.-17.08.12
Copenhagen	Duesseldorf	19.11.-23.11.12	Lisbon	13.02.-17.02.12	Zurich	26.11.-30.11.12
Copenhagen	Munich	10.12.-14.12.12	Lisbon	10.09.-14.09.12	SCHEDULE United Kingdom	
Copenhagen	Frankfurt	E 17.12.-21.12.12	SCHEDULE Serbia		Cirencester	E 13.02.-17.02.12
SCHEDULE France	SCHEDULE Italy		Belgrade	E 23.01.-27.01.12	London	E 19.03.-23.03.12
Paris	Milan	02.04.-06.04.12	SCHEDULE Slovenia		Cirencester	E 25.06.-29.06.12
Copenhagen	Rome	28.05.-01.06.12	Ljubljana	E 28.05.-01.06.12	London	E 30.07.-03.08.12
Paris	Milan	08.10.-12.10.12	SCHEDULE Spain		London	E 08.10.-12.10.12
SCHEDULE Germany	Rome	19.11.-23.11.12	Madrid	13.02.-17.02.12	Cirencester	E 29.10.-02.11.12
Hamburg E 23.01.-27.01.12	SCHEDULE Netherlands		Madrid	03.09.-07.09.12	London	E 10.12.-14.12.12
Munich	Utrecht	E 23.01.-27.01.12	SCHEDULE Sweden		E Training in English	
Frankfurt						

Implementing Cisco Multicast (MCAST)

ID CI-MCAST **Price** 2.590,00 EUR / 2.295,00 GBP (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2) and Implementing Cisco IP Routing (ROUTE) courses

COURSE CONTENT

- IP Multicast Concepts and Technologies
- Multicast on the LAN
- PIM Sparse Mode
- Rendezvous Point Engineering
- PIM Sparse Mode Protocol Extensions
- Multiprotocol Extensions for BGP
- Interdomain IP Multicast
- IP Multicast Security
- Multicast Optimization and High Availability Features
- Applications of Multicast

SCHEDULE Denmark	Oslo	E 07.05.-11.05.12
Copenhagen	Oslo	01.10.-05.10.12
Copenhagen	SCHEDULE Portugal	
Copenhagen	Lisbon	05.03.-09.03.12
SCHEDULE France	Lisbon	22.10.-26.10.12
Paris	SCHEDULE Spain	
SCHEDULE Germany	Madrid	26.03.-30.03.12
Hamburg	Madrid	15.10.-19.10.12
Frankfurt	SCHEDULE Sweden	
Frankfurt	Stockholm	06.02.-10.02.12
Duesseldorf E 26.03.-30.03.12	Stockholm	28.05.-01.06.12
Stuttgart	Stockholm	13.08.-17.08.12
Munich	Stockholm	22.10.-26.10.12
Berlin	SCHEDULE Switzerland	
Berlin	Zurich	19.03.-23.03.12
Frankfurt	Zurich	27.08.-31.08.12
Frankfurt	SCHEDULE United Kingdom	
Hamburg	London	E 23.04.-27.04.12
Hamburg	London	E 01.10.-05.10.12
Duesseldorf		
Munich E 15.10.-19.10.12		
Stuttgart		
Stuttgart		
Berlin		
Berlin		
SCHEDULE Norway		
Oslo E 06.02.-10.02.12		



Implementing Cisco MPLS (MPLS)

ID CI-MPLS **Price** 2.990,00 EUR / 2.025,00 GBP (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2), Implementing Cisco IP Routing (ROUTE) and Configuring BGP on Cisco Routers (BGP) courses

COURSE CONTENT

- MPLS Features
 - Describing Basic MPLS Concepts
 - Describing MPLS Labels and Label Stack
 - Identifying MPLS Applications
- Label Assignment and Distribution
 - Discovering LDP Neighbors
 - Describing Typical Label Distribution in Frame-Mode MPLS
 - Describing Convergence in Frame-Mode MPLS
- Frame-Mode MPLS Implementation on Cisco IOS Platforms
 - Using Cisco Express Forwarding Switching
 - Configuring Frame-Mode MPLS on Cisco IOS Platforms
 - Monitoring Frame-Mode MPLS on Cisco IOS Platforms
 - Troubleshooting Frame-Mode MPLS on Cisco IOS Platforms
- MPLS VPN Technology
 - Introducing Virtual Private Networks
 - Introducing MPLS VPN Architecture
 - Introducing the MPLS VPN Routing Model
 - Forwarding MPLS VPN Packets
- MPLS VPN Implementation
 - Using MPLS VPN Mechanisms of Cisco IOS Platforms
 - Configuring VRF Tables
 - Configuring an MP-BGP Session Between PE Routers
 - Configuring Small-Scale Routing Protocols Between PE and CE Routers
 - Monitoring MPLS VPN Operations
 - Configuring OSPF as the Routing Protocol Between PE and CE Routers
 - Configuring BGP as the Routing Protocol Between PE and CE Routers
 - Troubleshooting MPLS VPNs
- Complex MPLS VPNs
 - Introducing Overlapping VPNs
 - Introducing Central Services VPNs
 - Using Advanced VRF Import and Export Features
 - Introducing the Managed CE Routers Service

- Internet Access and MPLS VPNs
 - Combining Internet Access with MPLS VPNs
 - Implementing Separate Internet Access and VPN Services
 - Implementing Internet Access as a Separate VPN
- MPLS TE Overview
 - Introducing Traffic Engineering Concepts
 - Understanding MPLS TE Components
 - Configuring MPLS Traffic Engineering on Cisco IOS Platforms
 - Monitoring Basic MPLS TE on Cisco IOS Platforms



SCHEDULE Belgium

Brussels **E** 23.01.-27.01.12
 Brussels **E** 19.03.-23.03.12
 Brussels **E** 18.06.-22.06.12

SCHEDULE Bulgaria

Sofia **E** 17.09.-21.09.12

SCHEDULE Denmark

Copenhagen 05.03.-09.03.12
 Copenhagen 11.06.-15.06.12
 Copenhagen 17.09.-21.09.12
 Copenhagen 05.11.-09.11.12

SCHEDULE France

Paris 26.03.-30.03.12
 Paris 25.06.-29.06.12

SCHEDULE Germany

Duesseldorf **E** 09.01.-13.01.12
 Munich 30.01.-03.02.12
 Frankfurt 13.02.-17.02.12
 Hamburg **E** 05.03.-09.03.12
 Berlin 19.03.-23.03.12

Leipzig 19.03.-23.03.12
 Stuttgart 02.04.-05.04.12
 Hamburg 07.05.-11.05.12
 Berlin 29.05.-01.06.12
 Munich 11.06.-15.06.12
 Frankfurt **E** 25.06.-29.06.12
 Duesseldorf 16.07.-20.07.12
 Stuttgart 30.07.-03.08.12
 Cologne 20.08.-24.08.12
 Hamburg 03.09.-07.09.12
 Berlin 17.09.-21.09.12
 Munich 08.10.-12.10.12
 Frankfurt 22.10.-26.10.12
 Duesseldorf 05.11.-09.11.12
 Hamburg **E** 19.11.-23.11.12
 Stuttgart 03.12.-07.12.12
 Berlin 17.12.-21.12.12

SCHEDULE Italy

Milan 19.03.-23.03.12
 Rome 18.06.-22.06.12

Milan 15.10.-19.10.12
 Rome 12.11.-16.11.12
SCHEDULE Netherlands
 Utrecht **E** 23.01.-27.01.12
 Utrecht **E** 19.03.-23.03.12
 Utrecht **E** 18.06.-22.06.12
SCHEDULE Norway
 Oslo **E** 05.03.-09.03.12
 Oslo 03.09.-07.09.12
 Oslo 22.10.-26.10.12

SCHEDULE Portugal

Lisbon 16.04.-20.04.12
 Lisbon 12.11.-16.11.12

SCHEDULE Serbia

Belgrade **E** 06.02.-10.02.12

SCHEDULE Slovenia

Ljubljana **E** 07.05.-11.05.12

SCHEDULE Spain

Madrid 23.04.-27.04.12
 Madrid 05.11.-09.11.12

SCHEDULE Sweden

Stockholm 05.03.-09.03.12
 Stockholm 11.06.-15.06.12
 Stockholm 24.09.-28.09.12
 Stockholm 12.11.-16.11.12

SCHEDULE Switzerland

Zurich 26.03.-30.03.12
 Zurich 02.07.-06.07.12
 Zurich 15.10.-19.10.12

SCHEDULE United Kingdom

Cirencester **E** 23.01.-27.01.12
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 Cirencester **E** 19.03.-23.03.12
 London **E** 18.06.-22.06.12
 Cirencester **E** 23.07.-27.07.12
 London **E** 10.09.-14.09.12
 Cirencester **E** 19.11.-23.11.12
 London **E** 26.11.-30.11.12

E Training in English

Implementing Cisco MPLS Traffic Engineering & Other Features (MPLST)

ID CI-MPLST **Price** 2.990,00 EUR / 2.025,00 GBP (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Configuring BGP on Cisco Routers (BGP), Implementing Cisco QoS (QOS) and Implementing Cisco MPLS (MPLS) courses

COURSE CONTENT

- MPLS VPN Review
- MPLS Label Assignment & Distribution Frame-Mode/Cell-Mode
- Carrier Supporting Carrier (CsC)
- MPLS Traffic Engineering Technology
- Configuring MPLS Traffic Engineering
- MPLS Quality of Service
- Any Transport over MPLS (AToM)
- MPLS IPv6 support



SCHEDULE Belgium

Brussels **E** 12.03.-16.03.12
Brussels **E** 25.06.-29.06.12

SCHEDULE Denmark

Copenhagen **E** 12.03.-16.03.12
Copenhagen 08.10.-12.10.12

SCHEDULE France

Paris 23.04.-27.04.12

SCHEDULE Germany

Frankfurt 06.02.-10.02.12
Hamburg **E** 12.03.-16.03.12
Berlin 10.04.-13.04.12
Munich 23.04.-27.04.12
Frankfurt **E** 02.07.-06.07.12
Hamburg 27.08.-31.08.12
Berlin 24.09.-28.09.12
Frankfurt 29.10.-02.11.12
Duesseldorf 19.11.-23.11.12
Berlin 10.12.-14.12.12

SCHEDULE Italy

Milan 28.05.-01.06.12

Rome 03.12.-07.12.12

SCHEDULE Netherlands

Utrecht **E** 12.03.-16.03.12

SCHEDULE Norway

Oslo **E** 12.03.-16.03.12
Oslo 08.10.-12.10.12

SCHEDULE Portugal

Lisbon 07.05.-11.05.12

Lisbon 03.12.-07.12.12

SCHEDULE Spain

Madrid 14.05.-18.05.12
Madrid 10.12.-14.12.12

SCHEDULE Sweden

Stockholm 16.04.-20.04.12
Stockholm 15.10.-19.10.12

SCHEDULE Switzerland

Zurich 21.05.-25.05.12
Zurich 06.08.-10.08.12
Zurich 05.11.-09.11.12

E Training in English

MPLS Expert Workshop (MEWS)

ID FL-MEWS **Price** 2.990,00 EUR (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Implementing Cisco MPLS Traffic Engineering & Other Features (MPLST)

COURSE CONTENT

- MPLS Traffic-Engineering; MPLS QoS
- MPLS Layer 2 VPN Systems
- Inter AS-MPLS VPNV4 Peering
- MPLS Multicast
- MPLS Security
- MPLS IPv6



SCHEDULE Germany

Stuttgart 06.02.-10.02.12
Duesseldorf **E** 10.04.-13.04.12
Berlin 11.06.-15.06.12

Frankfurt 30.07.-03.08.12

Hamburg **E** 15.10.-19.10.12

Munich 03.12.-07.12.12

E Training in English

Further Cisco Advanced Services Training for Service Providers

We have partnered with Cisco Advanced Services to offer their broad range of advanced technology courses. Our Advanced Services Education offering for service providers include e.g.:

- Cisco IOS XR Software Fundamentals for Network Operations (XRFUND)
- Deploy, Maintain & Troubleshoot Cisco IOS XR (DMTXR)
- Cisco IOS XR IPv6 Routing for Service Providers (XIPV6R)
- Cisco XR 12000 Series Essentials (XR12K)
- Cisco CRS-1 Essentials (CRS1)
- Cisco 10000 Series Essentials (C10K)
- Implementing Broadband Aggregation on Cisco Routers (BBAGG)
- ASR 1000 Essentials (ASR1K)
- Cisco ASR 9000 Aggregation Services Router Series Essentials (ASR9K)
- Cisco 7600 Series Essentials (ASISR)
- Building Core Networks with OSPF, IS-IS, BGP, and MPLS (BCN)
- Advanced Implementing and Troubleshooting MPLS VPN Networks (AMPLS)

For further information please contact your nearest Fast Lane office. Details can be found on the back page.

Implementing Cisco Catalyst 6500 Series Switches (RSCAT6K)



ID CI-RSCAT6K **Price** 2.490,00 EUR / 1.695,00 GBP (excl. VAT) **Duration** 3 Days

PREREQUISITES

- Cisco Certified Network Associate (CCNA) level of knowledge

COURSE CONTENT

- Cisco Catalyst 6500 Series Switches Architecture
 - Assessing the Cisco Catalyst 6500 Series Switches
 - Listing Cisco Catalyst 6500 Series Switch Supervisor Engines
 - Choosing Cisco Catalyst 6500 Series Switch Line Cards
 - Characterizing Packet Forwarding in a Cisco Catalyst 6500 Series Switch
 - Describing Unicast Packet Walks Between Different Line Cards
- Core Technologies on the Cisco Catalyst 6500 Series Switches
 - Applying the Virtual Switching System 1440/4T to a Network
 - Analyzing Multicast on the Cisco Catalyst 6500 Series Switches
 - Characterizing Identity and Authentication
 - Introducing Network Virtualization
 - Describing Data Center Interconnect Using Cisco Catalyst 6500 Series Switches
- Planning and Implementing High Availability on Cisco Catalyst 6500 Series Switches
- Cisco Catalyst 6500 Monitoring and Operations
 - Configuring SPAN, RSPAN and ERSPAN
 - Configuring NetFlow
 - Introducing Enhanced Manageability
 - Deploying Control Plane Policing
 - Implementing ACL Features
 - Prioritizing Traffic through the Catalyst 6500 using QOS



SCHEDULE Belgium		Utrecht	E 10.04.-12.04.12
Brussels	E 10.04.-12.04.12	Utrecht	E 03.09.-05.09.12
Brussels	E 03.09.-05.09.12	SCHEDULE Portugal	
SCHEDULE Germany		Lisbon	16.04.-18.04.12
Berlin	E 09.01.-11.01.12	Lisbon	01.10.-03.10.12
Hamburg	13.02.-15.02.12	SCHEDULE Spain	
Munich	19.03.-21.03.12	Madrid	23.04.-25.04.12
Duesseldorf	16.04.-18.04.12	Madrid	12.11.-14.11.12
Stuttgart	07.05.-09.05.12	SCHEDULE Switzerland	
Frankfurt	E 25.06.-27.06.12	Zurich	16.01.-18.01.12
Berlin	30.07.-01.08.12	Zurich	06.08.-08.08.12
Munich	03.09.-05.09.12	SCHEDULE United Kingdom	
Hamburg	24.09.-26.09.12	London	E 23.01.-25.01.12
Frankfurt	22.10.-24.10.12	London	E 10.04.-12.04.12
Duesseldorf	E 19.11.-21.11.12	London	E 28.08.-30.08.12
Stuttgart	17.12.-19.12.12	London	E 19.11.-21.11.12
SCHEDULE Netherlands		E Training in English	

Virtual Switching System VSS 1440/4T (VSS)

ID FL-VSS **Price** 1.690,00 EUR (excl. VAT) **Duration** 2 Days

PREREQUISITES

- Cisco Certified Network Professional (CCNP) level of knowledge

COURSE CONTENT

- Stateful Switchover (SSO) and Non-Stop Forwarding (NSF)
- The Virtual Switching System (VSS) concept
- Deployment in a hierarchical network
- Hard- and Software requirements
- Virtual Switch Link – function and deployment
- Link Management Protocol (LMP)
- Role Resolution Protocol (RRP)
- Migration from Single-Chassis-systems to a VSS system
- Multi-Chassis-EtherChannel (MEC)
- Identification of a Dual-Active state with PAGP+, BFD or Fast Hellos
- Monitor VSS with Syslog and SNMP
- Tuning of VSS and important management commandos
- Identification of potential problems with the implementation and operation of VSS, including prevention and troubleshooting
- Enhanced Fast Software Upgrade
- Application of Modular IOS
- Quad Supervisor-Engine Support
- Operation of Services Modules like ACE or FWSM in a VSS
- Operation of MPLS, IPv6, EEM and NetFlow



SCHEDULE Germany		Frankfurt	25.10.-26.10.12
Berlin	12.01.-13.01.12	Duesseldorf	E 22.11.-23.11.12
Berlin	E 12.01.-13.01.12	Duesseldorf	22.11.-23.11.12
Hamburg	16.02.-17.02.12	Stuttgart	20.12.-21.12.12
Munich	22.03.-23.03.12	SCHEDULE Switzerland	
Duesseldorf	19.04.-20.04.12	Zurich	19.01.-20.01.12
Stuttgart	10.05.-11.05.12	Zurich	09.08.-10.08.12
Frankfurt	E 28.06.-29.06.12	SCHEDULE United Kingdom	
Frankfurt	28.06.-29.06.12	London	E 26.01.-27.01.12
Berlin	02.08.-03.08.12	London	E 22.11.-23.11.12
Munich	06.09.-07.09.12	E Training in English	
Hamburg	27.09.-28.09.12		

Cisco Catalyst 6500 Sup2T Advanced Configuration Bundle (CAT6KVSS)

ID FL-CAT6KVSS **Price** 3.690,00 EUR (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Cisco Certified Network Associate (CCNA) level of knowledge

COURSE CONTENT

This 5-day class combines the content of the two Catalyst 6500 classes:

- Implementing Cisco Catalyst 6500 Series Switches (RSCAT6K)
- Virtual Switching System VSS 1440/4T (VSS)

SCHEDULE Germany

Berlin	E 09.01.-13.01.12
Berlin	09.01.-13.01.12
Hamburg	13.02.-17.02.12
Munich	19.03.-23.03.12
Duesseldorf	16.04.-20.04.12
Stuttgart	07.05.-11.05.12
Frankfurt	25.06.-29.06.12
Frankfurt	E 25.06.-29.06.12
Berlin	30.07.-03.08.12

Munich	03.09.-07.09.12
Hamburg	24.09.-28.09.12
Frankfurt	22.10.-26.10.12
Duesseldorf	E 19.11.-23.11.12
Duesseldorf	19.11.-23.11.12
Stuttgart	17.12.-21.12.12
SCHEDULE Switzerland	
Zurich	16.01.-20.01.12
Zurich	06.08.-10.08.12
E Training in English	

Advanced Catalyst 6500 Switching (CAT6KS)

ID FL-CAT6KS **Price** 2.690,00 EUR (excl. VAT) **Duration** 5 Days

PREREQUISITES

- CCNP certification or comparable experience

COURSE CONTENT

- Applying the Enterprise Composite Model
- Describing the Campus Infrastructure Module
- Deploying Technology in the Campus Infrastructure Module
- Catalyst 6500 Architecture Overview
- Configuring the Catalyst 6500 Chassis
- Using the Cisco Power Calculator
- Introducing the Catalyst 6500 Supervisor Modules
- Introducing the Catalyst 6500 Line Cards



SCHEDULE Denmark

Copenhagen	E 26.03.-30.03.12
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SCHEDULE Germany

Berlin	E 16.01.-20.01.12
Hamburg	06.02.-10.02.12
Munich	26.03.-30.03.12
Duesseldorf	23.04.-27.04.12
Stuttgart	21.05.-25.05.12
Frankfurt	E 02.07.-06.07.12
Berlin	06.08.-10.08.12
Munich	27.08.-31.08.12
Hamburg	08.10.-12.10.12

Frankfurt	29.10.-02.11.12
Duesseldorf	E 12.11.-16.11.12
Duesseldorf	12.11.-16.11.12
Stuttgart	10.12.-14.12.12
SCHEDULE Slovenia	
Ljubljana	E 21.05.-25.05.12
SCHEDULE Sweden	
Stockholm	12.03.-16.03.12
SCHEDULE Switzerland	
Zurich	23.01.-27.01.12
Zurich	13.08.-17.08.12
E Training in English	

Catalyst 6500 & Cisco 7600 Series Routers Firewall Services Module Deployment (FWSMD)

ID FL-FWSMD **Price** 2.990,00 EUR / 2.085,00 GBP (excl. VAT) **Duration** 5 Days

PREREQUISITES

- Experience of configuring Cisco IOS Software
- CCNA certification or similar knowledge
- Familiarity with Network and Security Concepts

COURSE CONTENT

- Catalyst 6500 Family and Advanced Services Modules overview
- Firewall Services
- Configuration of the switch for the FWSM
- Implementing the FWSM
- Translations and Connections
- Access Control Lists and Content Filtering
- Grouping of objects
- IP Routing
- Cisco Modular Policy Framework
- Advanced Protocol Handling
- Transparent Firewall Mode

- Cisco Adaptive Security Device Manager
- Authentication, Authorization and Accounting
- Deployment of the FWSM within multiple contexts
- Failover
- FWSM Management
- Site-to-Site & Remote Access VPN for FWSM Management
- FWSM Troubleshooting
- Cisco Security Manager



SCHEDULE Belgium

Brussels	E 05.03.-09.03.12
Brussels	E 02.07.-06.07.12

SCHEDULE Germany

Hamburg	06.02.-10.02.12
Stuttgart	05.03.-09.03.12
Frankfurt	E 10.04.-13.04.12
Hamburg	18.06.-22.06.12

Berlin	23.07.-27.07.12
Munich	10.09.-14.09.12
Hamburg	E 29.10.-02.11.12
Duesseldorf	26.11.-30.11.12
SCHEDULE Netherlands	
Utrecht	E 05.03.-09.03.12
Utrecht	E 02.07.-06.07.12
E Training in English	

High-end IT Training and Consulting

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- ✓ **European Cisco Award of Excellence in Relevance 2011**
- ✓ **NetApp Partner Award 2011**
- ✓ **One of the Top 20 IT Training Companies 2009, 2010 & 2011, named by TrainingIndustry.com**



**Cisco European Learning Partner
of the Year 2009, 2010 & 2011**
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Fast Lane Training Centres



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info@flane.se / www.flane.se

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Glatt Com, 1. Etage (P12)
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Tel. +41 (0)44 8325080, Fax +41 (0)44 8325085
info@flane.ch / www.flane.ch

United Kingdom

**Fast Lane Consulting and Education
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New Lodge, Drift Road, Windsor, Berkshire, SL4 4RR
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enquiries@flane.co.uk / www.flane.co.uk