



Data Center & Virtualization Training **2011**



- Multi Vendor Data Center
- Cisco Unified Computing
- Cisco Data Center Switching
- Cisco Storage Networking
- Cisco Application Networking
- NetApp Storage & Data Center



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

CISCO COMPLETE

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

CERTIFIED WORLDWIDE

Fast Lane is certified in all regions worldwide as a Cisco Learning Solutions Partner.

ADVANCED DATA CENTER & VIRTUALIZATION LABS

Putting hands-on exercises and the latest Cisco equipment to good use, we convey the knowledge you need to operate complex data centers. Our infrastructure comprises multi vendor data center labs equipped with Cisco's Unified Computing System (UCS), Cisco Nexus 7000 and 5000 switches, Nexus 2000 Fabric Extenders, VMware ESX servers including Nexus 1000V, redundant NetApp clusters and much more.

MULTI VENDOR DATA CENTER TRAINING

Fast Lane is the training provider of choice when it comes to virtualised data center solutions. As an authorised training partner of Cisco, NetApp, VMware, and Symantec, we get you ready to rise to the challenges of planning and making the most of future-focused data center solutions.

TOP COACHES

Whatever specialised insight, skills, and consulting you may need, Fast Lane has the right data center 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 programme to your best benefit. Our certified instructors will also conduct every type of training session on site at your company's premises.

TAILORED COURSES

Our experts will be delighted to tailor and conduct training to suit your wishes.

CISCO EUROPEAN LEARNING PARTNER OF THE YEAR 2009 & 2010

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

CISCO EDUCATION SPECIALISATIONS

Fast Lane acquired all six available Cisco Education Specialisations: Advanced Data Center Network Infrastructure, Advanced Data Center Storage Networking, Advanced Security, Advanced Wireless LAN, Advanced Routing and Switching, and Advanced Unified Communications.

CISCO LEARNING CREDITS

Cisco Learning Credits are a convenient and efficient way to purchase and manage Cisco authorised training. They enable customers to increase productivity and improve network optimisation while safeguarding training budget and monitoring training expenditures.



Fast Lane's Cisco UCS/Multi Vendor Labs



Fast Lane's Cisco Nexus Labs

Contents



CISCO UNIFIED COMPUTING TRAINING

Unified Computing Systems Architectural Overview (UCSAO)
Data Center Unified Computing Design (DCUCD)
Data Center Unified Computing Implementation (DCUCI)

CISCO DATA CENTER SWITCHING TRAINING

Data Center Architectural Overview (DCAO)
Cisco Nexus Overview Workshop (CNOW)
Implementing Cisco Data Center Network Infrastructure 1 (DCNI-1)
Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2)
Data Center Network Infrastructure Design (DCNID)
Implementing Data Center Networks Using the Cisco Nexus 1000V Switch (IDCN1V)
Implementing Data Center Networks Using the Cisco Nexus 5000 Switch & 2000 Fabric Extender (IDCN5K)
Implementing Data Center Networks Using the Cisco Nexus 7000 Switch (IDCN7K)

CISCO APPLICATION NETWORKING TRAINING

Cisco Wide Area Application Services (CWAAS)
Implementing the ACE Service Module (ACESM)
Global Site Selector Operation & Configuration (GSSOC)
Designing Data Center Application Services (DCASD)
Implementing Data Center Application Services (DCASI)
Designing an Enterprise Application Infrastructure with the ACE Family (ACEDES)
Implementing the Cisco ACE Appliance (ACEAP)
Content Services Switch Operation & Configuration (CSSOC)
Application & Content Networking System (ACNS)

CISCO STORAGE NETWORKING TRAINING

Designing Cisco Storage Networking Solutions (DCSNS)
Implementing Cisco Storage Networking Solutions (ICSNS)
Implementing Cisco Advanced Storage Networking Solutions (IASNS)

MULTI VENDOR DATA CENTER TRAINING

What's New vSphere 4 on Nexus 1000V Data Center Networks (WNNDC)
Install, Config & Manage vSphere 4 on Nexus 1000V Data Center Networks (ICMNDNC)
Implementing Vblock (VBLOCK-TECH)
Selling Vblocks (VBLOCK-SALES)
Virtual Dynamic Data Center (VDDC)
Implementing Enhanced Secure Multi-Tenancy Solutions (IESMT)

NETAPP TRAINING

VMWARE TRAINING



Prices in this catalogue exclude VAT. Please note that pricing may differ between countries.

Data Center Architectural Overview (DCAO)

ID FL-DCAO Price 895,00 USD Duration 1 Day

PREREQUISITES

- An understanding of Data Center LAN and SAN architectures would be an advantage



COURSE CONTENT

- Data Center Architecture
- Nexus 7000 - Core Switch
- Nexus 5000 - Access Layer Switch
- Nexus 2000 - Fabric Extender(FEX)
- Nexus 4000 - FCoE Blade Switch
- Nexus 1000V
- Unified Computing System
- Case Study - Building a Data Center with Nexus and UCS

Cisco Nexus Overview Workshop (CNOW)

ID FL-CNOW Price 795,00 USD Duration 1 Day

PREREQUISITES

- CCNA Certification or equivalent knowledge

COURSE CONTENT

- Cisco Nexus Family Overview: Nexus 7000; Nexus 5000; Nexus 2000; Nexus 1000V; NX-OS
- The Nexus 5000 Series Switch: Data Center challenges; I/O Consolidation; Nexus 5000 Architecture Overview; FCoE Server Adapters; Management of the Nexus 5000
- The Nexus 2000 Fabric Extender: Architecture of the Access Switch; Nexus 2000 Access Layer Design
- The Nexus 1000 V Virtual Switch: Overview of the Virtual Environment; VN-Link; VM Provisioning
- The Nexus 7000 Core Switch: Data Center Core Requirements; Nexus 7000 Deployment, Nexus 7000 Integrated Core
- Virtual Data Center Architecture: Data Center Network Overview; Access Layer Designs



Data Center Unified Computing Design (DCUCD)

ID CI-DCUCD Price 2.695,00 USD Duration 5 Days

PREREQUISITES

- CCNA certification
- MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level Knowledge
- VMware Certified Professional (VCP)
- Designing Cisco Storage Networking Solutions (DCSNS) and Data Center Network Infrastructure Design (DCNID) courses

COURSE CONTENT

- Data Center Computing Solutions
- Cisco Data Center Unified Computing Solution Components
- Cisco Data Center Unified Computing Solution Benefits
- Unified Computing System Implementation Aspects
- Evaluate Existing Data Center Computing Solutions
- Design Cisco Data Center Unified Computing Solutions
- Evaluate Cisco Data Center Unified Computing Solutions

Data Center Unified Computing Implementation (DCUCI)

ID CI-DCUCI Price 2.695,00 USD Duration 5 Days

PREREQUISITES

- CCNA certification
- MDS 9x00, Nexus 5000, Nexus 7000, Catalyst6500, and ACE Engineer Level Knowledge
- VMware Certified Professional (VCP)
- Implementing Cisco Storage Networking Solutions (ICSNS) and Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2) courses

COURSE CONTENT

- Understanding how Cisco UCS Benefits today's Data Center

- Cisco's Unified Computing System: UCS Hardware Components & UCS Features
- Understanding User Management
- Understanding the Chassis Array Manager (CAM) Conceptual Overview
- Explaining the Implementation of Server Resources via the Unified Computing System
- Maintaining a Cisco Unified Computing System
- Monitoring, Diagnostics & Troubleshooting the Cisco Unified Computing System
- Designing Cisco Unified Computing System Deployment

Implementing Cisco Data Center Network Infrastructure1 (DCNI-1)

ID CI-DCNI-1 Price 2.695,00 USD Duration 5 Days

PREREQUISITES

- CCNP or CCIE Routing & Switching certification status or equivalent knowledge

COURSE CONTENT

- Implementing the Catalyst 6500, 4900 and Blade Switches
- Implementing FWSM for a Data Center Network Infrastructure
- Implementing Network Analysis with NAM
- Implementing High Availability Data Center Features

Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2)

ID CI-DCNI-2 Price 2.695,00 USD Duration 5 Days

PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2), Implementing Cisco IP Switching (SWITCH), Implementing Cisco IP Routing (ROUTE) and Troubleshooting & Maintaining Cisco IP Networks (TSHOOT) courses

COURSE CONTENT

- Using the Cisco Nexus 7000 in Data Center Networks
 - Understanding the Cisco Nexus 7000 Series Switches
 - Overview of the Cisco Nexus 7000
 - Introducing the Virtual Device Contexts in the Cisco Nexus 7000
 - Managing the Cisco Nexus 7000
 - Cisco Nexus 7000 & Cisco NX-OS Layer 2 Protocols & Features

- Cisco Nexus 7000 & Cisco NX-OS Quality of Service
- Cisco Nexus 7000 & Cisco NX-OS Security
- Troubleshooting
- Using the Cisco Nexus 5000 & 2000 in Data Center Networks
 - Overview of the Cisco Nexus 5000 & Cisco Nexus 2000
 - Understanding Fibre Channel
 - Implementing an FCoE Network Using Cisco Nexus 5000 Switches



Real Nexus
Hardware for
all Lab
Activities!

Data Center Network Infrastructure Design (DCNID)

ID CI-DCNID Price 2.695,00 USD Duration 5 Days

PREREQUISITES

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

COURSE CONTENT

- Data Center Objectives: Key Data Center Concerns and Objectives; Data Center Environmental Requirements; Data Center Networking Components: Cisco Platforms and Modules

- Cisco Nexus 7010 Switch: Hardware Architecture; Software Architecture; Continual Availability; Network Management; Security Overview; QoS implementation on NX 7010; Cisco Nexus 7010 position in the DC network
- Cisco Nexus 5000 Switch: Introduction to Fibre Channel over Ethernet (FCoE); Introduction to Cisco Nexus 5000 Switch; Cisco Nexus 5000 Switch Design Overview
- Data Center Design: Overview; Data Center Application Design

Implementing Data Center Networks Using the Cisco Nexus 1000V Switch (IDCN1V)

ID FL-IDCN1V Price 1.795,00 USD Duration 2 Days

PREREQUISITES

- Intermediate knowledge of switching, routing and data center architectures and protocols, as well as an understanding of server virtualisation techniques

COURSE CONTENT

- Modern Server Architecture Scalability & Consolidation
- Network Virtualisation & Consolidation in DC Bridging Networks
- Data Center Application High-Availability
- NIV on ESX using Cisco Nexus Hardware Switches
- Nexus 1000 VEM (NX-OS) Features & Functions
- Nexus 1000V Switching Mechanisms
- Overview of the Nexus 1000 VSM
- VM Policy-based Connectivity & Mobility using Nexus 1000V
- Utilize Cisco NX-OS based End-to-End QoS Concepts & Enforcement
- Configure the Nexus 1000V System Management & Monitoring Features
- Configure VM Security Features Using the Nexus 1000V



Implementing Data Center Networks Using the Cisco Nexus 5000 Switch & 2000 Fabric Extender (IDCN5K)

ID FL-IDCN5K Price 2.695,00 USD Duration 3 Days

PREREQUISITES

- Intermediate knowledge of switching, routing and data center architectures and protocols, as well as an understanding of server virtualisation techniques

COURSE CONTENT

- Fibre Channel Protocol Implementation on the Cisco Nexus 5000
- FCoE & DCB Protocols & Applicability to a Unified Fabric Environment
- DCB/FCoE Network Design Considerations
- Configure the Nexus 5000 in Converged Network Environments
- Nexus 5000 System Hardware & Software Architecture
- Nexus 5000 Software Features & Licensing
- Configure Server Connectivity to the FCoE/DCB Network Using Converged Network Adapters
- Nexus 5000 High-Availability Features
- Configure the Nexus 5000 Management & Monitoring Features
- Nexus 2000 Hardware Architecture & Operational Features
- Relationship Between the Nexus 5000 & 2000 Product Families
- Configure Advanced Features Including Congestion Avoidance, Traffic Management, Static & Dynamic Pinning
- Utilize the Fabric & Device Manager Products to Perform Discovery, Configuration, Management & Troubleshooting

Implementing Data Center Networks Using the Cisco Nexus 7000 Switch (IDCN7K)

ID FL-IDCN7K Price 2.795,00 USD Duration 3 Days

PREREQUISITES

- Intermediate knowledge of switching, routing and storage architectures and protocols, as well as an understanding of server virtualisation techniques

COURSE CONTENT

- Understanding the Cisco Nexus 7000 Series Switches

- Introducing the Virtual Device Contexts in the Cisco Nexus 7000
- Managing the Cisco Nexus 7000
- Cisco Nexus 7000 & Cisco NX-OS Layer 2 Protocols and Features
- Cisco Nexus 7000 & Cisco NX-OS Layer 3 Protocols and Features
- Cisco Nexus 7000 and Cisco NX-OS Quality of Service
- Cisco Nexus 7000 and Cisco NX-OS Security
- Troubleshooting

Cisco Wide Area Application Services (CWAAS)

ID CI-CWAAS Price 2.995,00 USD Duration 5 Days

PREREQUISITES

- CCNA certification or equivalent knowledge

COURSE CONTENT

- Cisco Wide-Area Application Services
 - Introducing Cisco WAAS
 - Understanding WAN Optimization
 - Understanding Application Acceleration
- Cisco WAAS Quick Start
 - Introducing Traffic Interception
 - Installing and Configuring Cisco WAAS Using Quick Start
- Implementation, Integration, and Management
 - Performing an Advanced Cisco WAE Installation and Configuration
 - Configuring Traffic Interception
 - Implementing Cisco WAAS Central Management
 - Configuring Application Traffic Policies
 - Configuring Cisco WAAS Virtualisation

- Cisco WAAS Application Optimizers
 - Configuring CIFS Optimization
 - Configuring Cisco WAAS Windows Network Printing
 - Configuring NFS Optimization
 - Configuring HTTP Optimization
 - Configuring Streaming Video Optimization
 - Configuring MAPI Optimization
 - Configuring SSL Optimization
- Cisco WAAS Design and Troubleshooting
 - Planning a Cisco WAAS Network Design
 - Troubleshooting Introduction
 - Troubleshooting Network Interception
 - Troubleshooting WAN Optimization
- Cisco WAAS Mobile Client Solution
 - Installing Cisco WAAS Mobile
 - Configuring Cisco WAAS Mobile Options
 - Troubleshooting Cisco WAAS Mobile

Implementing the Application Control Engine Service Module (ACESM)

ID CI-ACESM Price 2.395,00 USD Duration 4 Days

PREREQUISITES

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

COURSE CONTENT

- Introducing the Cisco ACE Module
- Deploying the Cisco ACE Module
- Understanding Modular Policy CLI

- Managing the Cisco ACE Module
- Understanding Security Features
- Configuring Layer 4 Load Balancing
- Configuring Health Monitoring
- Configuring Layer 7 Protocol Processing
- Processing Secure Connections
- Understanding High Availability
- Integrating Multiple Features



Global Site Selector Operation & Configuration (GSSOC)

ID CI-GSSOC Price 2.595,00 USD Duration 3 Days

PREREQUISITES

- Basic understanding of the following topics: TCP/IP protocol, DNS background, Server load-balancing, MPLS



COURSE CONTENT

- Basic DNS Review
- GSS Setup
- GSS Keepalives
- GSS Network Proximity
- GSS / CNR Interaction
- GSS Deployment Model Overview
- Global Server Load Balancing
- GSS Load Balancing Methods
- GSS DDos Protection

Designing Data Center Application Services (DCASD)

ID CI-DCASD Price 2.695,00 USD Duration 5 Days

PREREQUISITES

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

COURSE CONTENT

- Data Center Application Services Overview
- Designing Server Load Balancing Solutions
- Designing Web Application Acceleration Solutions
- Designing Site-to-Site Load Balancing Solutions
- Optimizing the DCAS Solution

Implementing Data Center Application Services (DCASI)

ID CI-DCASI Price 2.695,00 USD Duration 5 Days

PREREQUISITES

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



COURSE CONTENT

- Data Center Application Services Overview
- Implementing Server Load Balancing
- Implementing Web Application Acceleration
- Implementing Site-to-Site Load Balancing

Designing an Enterprise Application Infrastructure with the ACE Family (ACEDES)

ID CI-ACEDES Price 3.495,00 USD Duration 4 Days

PREREQUISITES

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

COURSE CONTENT

- Introducing ACE
- Deploying ACE
- Modular Policy Configuration
- Layer 4 / 7 Load Balancing
- Layer 7 Protocol Processing
- Processing Secure Connections
- Security Features
- High Availability
- Integrating Multiple Features

Implementing the Cisco ACE Appliance (ACEAP)

ID CI-ACEAP Price 2.995,00 USD Duration 4 Days

PREREQUISITES

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

COURSE CONTENT

- Implementing the Cisco Application Control Engine Appliance
- Introducing the Cisco ACE 4710 Appliance
- Deploying Cisco ACE
- Modular Policy CLI
- Managing the Cisco ACE Appliance
- Security Features
- Load Balancing
- Health Monitoring
- Layer 7 Protocol Processing
- Processing Secure Connections
- Deploying Application Acceleration and Optimization
- High Availability
- Integrating Multiple Features

Content Services Switch Operation & Configuration (CSSOC)

ID CI-CSSOC Price 3.095,00 USD Duration 5 Days

PREREQUISITES

- Basic understanding of TCP/IP, HTTP, IP Routing, DNS and network design/configuration
- CSM CLI, Basic Functions and Configuration
- CSM Network Design

COURSE CONTENT

- Cisco Content Switching Product Overview
- CLI and Initial Configuration Services
- Owners and Content Rules
- Load Balancing
- Domain Name Services and Global Server Load Balancing
- VIP and Interface Redundancy
- Adaptive Session Redundancy
- SSL Basics
- SSL Advanced: Backend SSL and URL Rewrite



Application & Content Networking System Operation & Configuration (ACNS)

ID CI-ACNS Price 2.595,00 USD Duration 3 Days

PREREQUISITES

- A basic understanding of TCP/IP, HTTP, and IP routing
- Basic understanding of Content Networking fundamentals

COURSE CONTENT

- Product Overview
- Initial Configuration and Activation
- CMS Configuration
- Network Integration
- ACNS Proxy-caching
- Prepositioning
- Request Routing with the Content Router
- Streaming

Designing Cisco Storage Networking Solutions (DCSNS)

ID CI-DCSNS Price 2.695,00 USD Duration 5 Days

PREREQUISITES

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



COURSE CONTENT

- MDS 9000 Platform Overview
- Designing SAN Fabrics
- Securing the SAN
- Designing SAN Extension Solutions

Implementing Cisco Storage Networking Solutions (ICSNS)

ID CI-ICSNS Price 2.695,00 USD Duration 5 Days

PREREQUISITES

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

COURSE CONTENT

- MDS 9000 Platform Overview
- System Installation and Initial Configuration
- Building VirtualSANs
- Implementing FCIP
- Troubleshooting Tools and Scenarios



Implementing Cisco Advanced Storage Networking Solutions (IASNS)

ID CI-IASNS Price 2.695,00 USD Duration 5 Days

PREREQUISITES

- Implementing Cisco Storage Networking Solutions (ICSNS)

COURSE CONTENT

- Building Enterprise SAN Fabrics
- Implementing Management and Security Services
- Advanced Troubleshooting
- Implementing iSCSI



VMware vSphere™ and Cisco Nexus 1000V Integration



What's New vSphere™ 4 on Nexus 1000V Data Center Networks (WNNDC)

ID FL-WNNDC Price 2.795,00 USD Duration 4 Days

PREREQUISITES

- VMware Infrastructure 3: Install & Configure (VIIC) or equivalent experience with VMware ESX and vCenter Server
- Intermediate knowledge of switching, routing and data center architectures and protocols, as well as an understanding of server virtualisation techniques

COURSE CONTENT

- Overview of the Nexus 1000 VEM and VSM
- Network Virtualisation and consolidation in Data Center Bridging Networks
- Upgrading VMware deployments
- Data Center Application High-Availability
- Nexus 1000 VEM (NX-OS) Features and Switching Mechanisms
- Deploying distributed virtual switches to simplify data center-wide network management

- Migrating virtual machines' storage while they are live with Storage vMotion
- Growing virtual disks and VMFS volumes while they are live
- Employing VMware's new Pluggable Storage Architecture
- Ensuring application availability with VMware Fault Tolerance
- Saving energy with VMware Distributed Power Management
- Saving disk space with thin provisioning
- NIV on ESX using Cisco Nexus switches
- Virtual Machine Policy-based Connectivity and Mobility
- Utilize Cisco NX-OS based End-to-End QoS Concepts and Enforcement
- Configure the Nexus 1000V System Management and Monitoring Features
- Configure VM Security Features Using the Nexus 1000V
- Save disk space with thin provisioning
- Administer virtual appliances consisting of more than one VM

Install, Config & Manage vSphere™ 4 on Nexus 1000V Data Center Networks (ICMNDC)

ID FL-ICMNDC Price 3.295,00 USD Duration 5 Days

PREREQUISITES

- Administration experience on Microsoft Windows or Linux operating systems
- Intermediate knowledge of switching, routing and data center architectures and protocols
- VMware vSphere 4: What's New (VIWN) course

COURSE CONTENT

- Install and configure ESX and vCenter Server
- Configure and manage ESX networking and storage using vCenter Server
- Deploy, manage and monitor VM and their resources
- Manage user access to the VMware infrastructure
- Increase scalability using vCenter Server

- Apply patches using VMware vCenter Update Manager
- Overview of the Nexus 1000 VEM and VSM
- Network Virtualisation & consolidation in DC Bridging Networks
- Data Center Application High-Availability
- Nexus 1000 VEM (NX-OS) Features and Switching Mechanisms
- NIV on ESX using Cisco Nexus switches
- Virtual Machine Policy-based Connectivity and Mobility
- Utilize Cisco NX-OS based End-to-End QoS Concepts and Enforcement
- Configure the Nexus 1000V System Management and Monitoring Features
- Configure VM Security Features Using the Nexus 1000V
- Manage higher availability & data protection using vCenter Server

Multi Vendor Data Center Training



Implementing Vblock (VBLOCK-TECH)

ID FL-VBLOCK-TECH Duration 5 Days

PREREQUISITES

- Intermediate knowledge in switching, routing, data center architecture and protocols, VMware ESX server virtualisation and vSphere, EMC² storage, backup and disaster recovery technologies

COURSE CONTENT

- Data Center
 - Data Center Challenges
 - Data Center Solutions
 - Vblock Architecture
 - Differences between the 3 Vblocks (0, 1, 2)
- Cisco Unified Computing System (UCS)
 - Introduction to the UCS System
 - Compute Node Connectivity
 - Cisco Unified Computing System Manager
 - Cisco Unified Computing System Maintenance
- EMC² Storage
 - EMC² Storage Portfolio: Celerra ('Vblock 0'), Clariion ('Vblock 1'), Symmetrix ('Vblock 2')
 - Configuring EMC² Storage
 - EMC² Storage High Availability, Backup and Disaster Recovery Options
 - Managing Data on EMC² Storage
 - EMC² Storage Management Tools
 - EMC² Storage Performance and Troubleshooting
- VMware vSphere
 - Configuring the VMware Virtualised Environment
 - VMware Virtual Networking
 - VMware High-Availability and Security

Selling Vblocks (VBLOCK-SALES)

ID FL-VBLOCK-SALES Duration 1 Day

PREREQUISITES

- Good understanding of the Data Center environment and the challenges and solutions found within that environment

COURSE CONTENT

- The Virtual Computing Environment: The VCE Coalition (Cisco, VMware and EMC); Intel and Acacia; Why did they get together? ;
- What are they delivering? ; What is of Benefit to the Customer? What is Vblock? : The Vblock Architecture; Vblock Components (vCenter, Nexus, VN-Link, etc.); Flavours of Vblock (0, 1 & 2); Relationship to Cisco UCS; Why is it of interest to customers? ; What challenges is it addressing? ; What benefits will the customer see? ;
- Selling Vblocks: Who is our target demographic? : Geographic ; markets, vertical markets, customer profile; Who do we approach? What is our messaging? ; Who/What is the Competition and why can we beat them? : Vblock SWOT Analysis, compare and contrast other solutions; Supporting a Sale; Sales & Marketing Tools



Multi Vendor Data Center Training



Virtual Dynamic Data Center (VDDC)

ID FL-VDDC Price 795,00 EUR Duration 1 Day

PREREQUISITES

- Basic knowledge about networking, virtualisation and storage

COURSE CONTENT

- Data Center of the Future with Cisco, NetApp and VMware
- Data Center Strategy: Consolidation, Virtualisation, Integration, Automation
- Customers Requirements
- Cisco Data Center 3.0
- Unified Fabric Concept
- Dynamic Data Center (DDC): NetApp Unified Storage & Cisco Unified Computing
- Virtualisation (Server and Desktop with VMware, Storage with NetApp), Cloud Infrastructures
- Market Trends



Implementing Enhanced Secure Multi-Tenancy Solutions (IESMT)

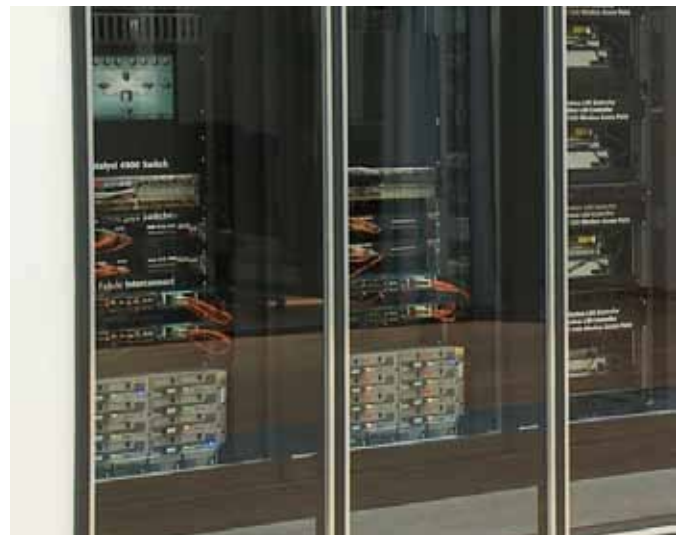
ID FL-IESMT Price 2.250,00 USD Duration 5 Days

PREREQUISITES

- Intermediate knowledge in switching, routing, data center architecture and protocols, VMware ESX server virtualisation and vSphere, NetApp storage, backup and disaster recovery technologies

COURSE CONTENT

- Understanding Secure Multi-Tenant Environments
- Introduction to the Cisco Unified Computing System (UCS)
- Compute Node Connectivity
- Cisco Unified Computing System Manager
- Cisco Unified Computing System Maintenance
- Configuring NetApp Storage in a Multi-Tenant Environment
- Storage High Availability, Backup and Disaster Recovery in a Multi-Tenant Environment
- Managing Data on NetApp MultiStore
- NetApp MultiStore Management Tools
- NetApp MultiStore Performance and Troubleshooting
- Configuring the VMware Virtualised Environment
- VMware Virtual Networking
- VMware High Availability and Security in a Multi-Tenant Environment
- Integration: Putting It All Together



Fast Lane is the only global NetApp Learning Partner. We offer the full NetApp curriculum in more than 60 countries and 12 languages. All our instructors are NetApp-certified specialists with extensive practical experience in the storage environment.

NetApp Storage Basic & Intermediate Training

- Data ONTAP 8.0 7-Mode Administration (DOT87M)
- NCD A Boot Camp (NCDABC)
- Accelerated NCD A Boot Camp Data ONTAP 8.0 7-Mode (ANCDABC87)
- Accelerated NCD A Boot Camp (ANCDABC)
- Data ONTAP CIFS Administration (CIFS)
- Data ONTAP NFS Administration (NFS)
- NetApp Data Protection Software Administration (NPSA8)
- Data ONTAP SAN Administration (SAN)
- SAN Implementation Workshop (SANIW)
- Performance Analysis on Data ONTAP (PAD)
- Data ONTAP 8.0 Cluster-Mode Administration (DOT8CLUSTER)
- Achieving Storage Efficiency with NetApp Storage Systems (ASE)
- Basic NetApp Configuration and Administration (BNCA)

NetApp Storage Advanced Training

- Operations Manager, Protection Manager, and Provisioning Manager Administration (OPSMGR)
- VMware vSphere on NetApp (VVNA)
- DataFort Storage Security Administration (DSSA)
- NetApp VTL Administration (NAVTL)
- Oracle on NetApp Storage Systems (NAOR)
- NetApp SANSscreen Fundamentals (SANSF)

Microsoft on NetApp Storage Systems

- Microsoft Exchange on NetApp Storage Systems (MSEXC)
- Microsoft SQL Server on NetApp Storage Systems (MSSQL)

CONTACT US.

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



Authorized VMware Training



Fast Lane is an authorized VMware Training Center (VATC) and delivers original VMware education programs. We can also deliver VMware courses as customized on-site programs for your company.

VMware vSphere Training

- VMware vSphere 4: What's New (VIWN)
- VMware vSphere 4.1: Install, Configure, Manage (VICM)
- VMware vSphere 4: Troubleshooting (VSTS)
- VMware vSphere: Manage for Performance (VMP)
- VMware vSphere: Skills for Storage Administrators (VSSA)
- VMware vCloud: Architecting the VMware Cloud (AVC)
- vSphere 4: Manage and Design for Security (VMDS)

Infrastructure Virtualization Training

- VMware vSphere: Design Workshop (VDW)
- VMware Capacity Planner (CAPL)

Desktop Virtualization Training

- VMware View™: Install, Configure, Manage (VIEW)
- VMware View: Design Best Practices (VVD)

Business Continuity Training

- VMware vSphere: Manage Availability (VMA)
- VMware Site Recovery Manager (VSRM)



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Fast Lane Training Centres



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