

# 2008

## NetApp Storage & Data Center Training

## Cisco Data Center Training



**NETAPP ТРЕНИНГ В МИРЕ** **EUROPE** Austria Belgium Croatia Czech Republic Denmark Finland France Germany Hungary Ireland Italy Netherlands Norway Poland Portugal Rumania Spain Switzerland Sweden United Kingdom **RUSSIA/CIS** Russia Ukraine **MIDDLE EAST** United Arab Emirates **AFRICA** South Africa **AMERICAS** Argentina Brazil Canada Chile Colombia Costa Rica Mexico USA Venezuela **ASIA PACIFIC** Australia India Japan New Zealand Singapore South Korea Taiwan



Компания Фаст Лейн является первым глобальным партнером NetApp по обучению! NetApp Learning Partner. Мы рады предложить Вам обширную программу NetApp тренинга на 2008 год. Со всеми возможными предложениями просим Вас ознакомиться на следующей странице.

Компания Фаст Лейн многие годы является авторизованным партнером Сиско по обучению, специализируясь на интернет проектах и решениях. Наша компания может предложить авторизованные стандартные курсы NetApp а также специально созданные под клиента курсы.

Много инвестировав в оборудование лабораторий, NetApp приглашает для проведения курсов только высококвалифицированных инструкторов. Все курсы включают в себя практические задания по инсталляции, конфигурации и устранению неполадок. Полная линейка курсов NetApp теперь доступна на 12 языках более чем в 40 странах мира.



Oleg Feldman,  
Managing Director, Russia & CIS



### Авторизованный NetApp тренинг

Net App выбрал Фаст Лейн своим партнером по обучению, исходя из сильных позиций, занимаемых нашей компанией в тренингах по ЦОД. Все инструктора Фаст Лейн сертифицированы NetApp для преподавания авторизованных курсов. В качестве оплаты Вы можете использовать NetApp training units (TUs).

### Авторизованный Cisco тренинг

Компания Фаст Лейн, ведущий партнёр компании Cisco со статусом Cisco Learning Solutions Partner, имеет филиалы во всех регионах мира. Все инструктора Фаст Лейн сертифицированы Cisco для преподавания авторизованных курсов. В качестве оплаты Вы можете использовать Cisco Learning credits (CLSP).

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„ NetApp chose Fast Lane to be its first worldwide Authorized Education Partner because of its outstanding reputation in IT Training and consistently high quality across the globe. “



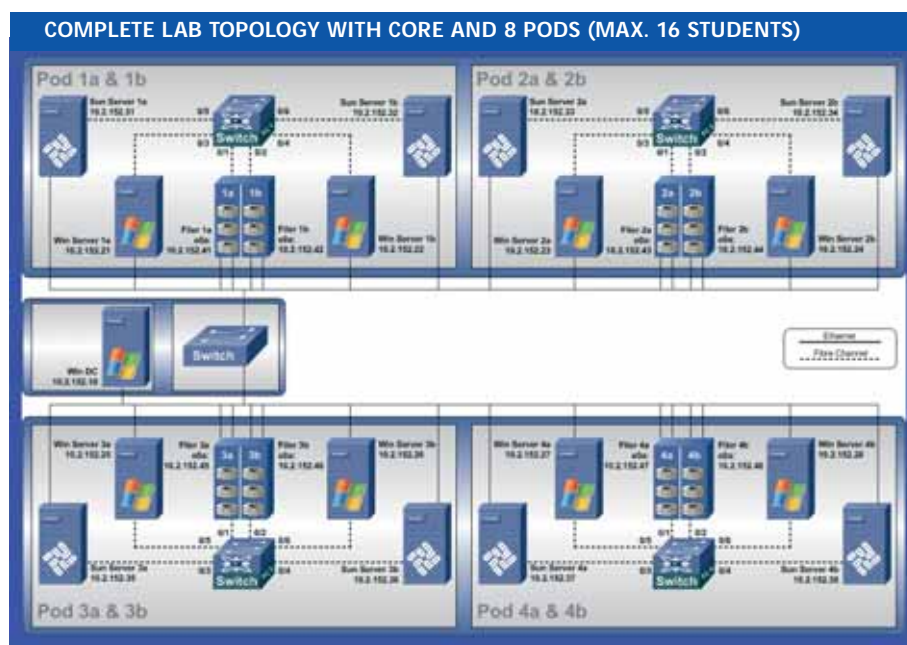
Bruce MacInnis  
Senior Manager  
Global Commercial  
Education,  
NetApp, Inc. NetApp  
University

# High-end Storage Labs

Мы предлагаем нашим клиентам высококлассный тренинг. Используя новейшие технологии, наши лаборатории устанавливают новые стандарты обслуживания. Консультанты Фаст Лейн имеют возможность использовать удаленные лаборатории из любого места, позволяя тем самым продемонстрировать сложнейшую инфраструктуру хранения данных в действии, в условиях реальной среды.

## NETAPP STORAGE LABS

Фаст Лейн предлагает 12 NetApp лабораторий с FAS3040 и FAS3070 Fabric Attached MetroCluster, также 32 FAS270 и 16 FAS2020. Лаборатории включают в себя сервера DELL с Solaris Windows. Все лаборатории также укомплектованы EMC, Veritas, Falconstore и VMware backup, виртуализационными решениями. Наши лаборатории могут быть использованы для многих курсов по ЦОД, а также по курсам, разработанным специально под клиента.



## HIRING REMOTE LABS

Мы сдаем в пользование лаборатории на основе - неделя./день.



# NetApp Products & Technologies

ЦОД специально разработан для облегчения сетевой инфраструктуры хранения критически важной информации. NetApp предлагает мощную систему решений для упрощения ИТ инфраструктуры и уменьшения затрат на обслуживание.

Специально разработанные для обширных ЦОД, продукты NetApp сделают управление потоками информации гибким и доступными.

## PRIMARY STORAGE

NetApp Primary Storage Позволяет Вам объединить вашу инфраструктуру благодаря консолидации хранения на серверах и программах в любом формате.



FAS2000 Series



FAS6000 Series



FAS3000 Series

## NEARLINE STORAGE

Nearline storage позволяет убрать разрыв между primary storage и offline storage путем обеспечения более высокой скорости передачи данных по сравнению с offline storage и путем снижения затрат по сравнению с primary storage. Это дает право NetApp Nearline Storage считаться идеальным вариантом для защиты и хранения данных в таких областях как disk- disk backup, disaster recovery, архивное хранение.



NearStore on FAS, NearStore VTL

## STORAGE VIRTUALIZATION

NetApp V-series является сетевым решением для виртуализации разноуровневых, разнородных рядов хранения данных через объединенный блок (FCP b iSCSi) файл(NAS) доступа к данным ,хранящимся в Fibre Channel SAN рядах хранения.



V-Series

## STORAGE SECURITY PRODUCTS

NetApp DataFort предлагает Вам единственную объединенную платформу, которая хранит данные в срезе разнородных инфраструктур. DataFort продукты создают основание для защиты главных информационных блоков.



DataFort Platform

NetApp's comprehensive certifications give you the opportunity to validate your knowledge and skills as a trained NetApp technical professional. Fast Lane delivers the courses you need to prepare for the certification you desire.

## NETAPP CERTIFIED DATA MANAGEMENT ADMINISTRATOR (NCDA)

Тест	Рекомендованный тренинг
NSO 153: Storage Networking	<ul style="list-style-type: none"> <li>• Data ONTAP Fundamentals (DOTF)</li> <li>• Data ONTAP CIFS Administration (CIFS)</li> <li>• Data ONTAP NFS Administration (NFS)</li> <li>• Data ONTAP SAN Administration (SAN)</li> </ul>
NSO 163: Data Protection Solutions	<ul style="list-style-type: none"> <li>• Data Protection &amp; Retention (DPR)</li> <li>• High Availability (HA)</li> </ul>

## NETAPP CERTIFIED SOLUTION ARCHITECT (NCSA)

There are currently 4 specializations, or disciplines, that someone can earn: SAN, Backup & Restore, Business Continuity and Security.

Тест	Рекомендованный тренинг
NSO 301: SAN Solution Architect	<ul style="list-style-type: none"> <li>• Data ONTAP Fundamentals (DOTF)</li> <li>• Data ONTAP SAN Administration (SAN)</li> <li>• Data Protection &amp; Retention (DPR)</li> </ul>
NSO 310: Architecting NetApp Backup & Restore Solution	<ul style="list-style-type: none"> <li>• Data ONTAP Fundamentals (DOTF)</li> <li>• Data Protection &amp; Retention (DPR)</li> </ul>
NSO 320: Architecting NetApp Business Continuity Solution	<ul style="list-style-type: none"> <li>• Data ONTAP Fundamentals (DOTF)</li> <li>• Data Protection &amp; Retention (DPR)</li> <li>• High Availability (HA)</li> <li>• MetroCluster (METRO)</li> </ul>
NSO 330: Security Solutions Architect	<ul style="list-style-type: none"> <li>• DataFort Storage Security Administration (DSSA)</li> </ul>

## NETAPP CERTIFIED IMPLEMENTATION ENGINEER (NCIE)

There are currently 2 specializations, or disciplines, that someone can earn: SAN and DataFort Security.

Тест	Рекомендованный тренинг
NSO 501: NetApp SAN Solution	<ul style="list-style-type: none"> <li>• Data ONTAP Fundamentals (DOTF)</li> <li>• Data Protection &amp; Retention (DPR)</li> <li>• Data ONTAP SAN Administration (SAN)</li> <li>• Microsoft Exchange on NetApp Storage Systems (MSEXC)</li> <li>• Microsoft SQL Server 2000 on NetApp Storage Systems (MSSQL)</li> </ul>
NSO 530: DataFort Security Implementation Engineer	<ul style="list-style-type: none"> <li>• DataFort Storage Security Administration (DSSA)</li> </ul>



## Data ONTAP Fundamentals (DOTF)

**ID** NA-DOTF  
**Цена** 101.250 РУБ.  
**TUs** 50  
**Длительность** 5 Дней

### WHO SHOULD ATTEND

- Network Professionals who perform basic support and administrative functions on a NetApp storage appliance running the Data ONTAP operating system.

### PREREQUISITES

- **Introduction to NetApp Products** Web-based training
- Basic knowledge of client/server & networking terminology and management including TCP/IP
- Background in one of the following: UNIX, Windows, or SAN system

### COURSE OBJECTIVES

Data ONTAP Fundamentals (FUN) is a comprehensive 5-day course that provides the basis for the NetApp curriculum and is the starting point for NetApp instructor-led courses. You will learn the portfolio of NetApp products and how to most effectively deploy and use the NetApp operating system - Data ONTAP. Multiple hands-on labs help reinforce the topics taught in class to ensure you develop the skills necessary to implement a NetApp storage system.

### COURSE CONTENT

- Identify NetApp product platforms (FAS, NearStore on FAS, NearStore VTL and VSeries) and summarize the key features and functionality
- Identify the components that comprise a NetApp environment
- Recognize the value of accessing the NOW Knowledgebase
- List the functions of the Data ONTAP operating system

- Identify the characteristics of a client-server network and the different storage tier types in a multiple-server network
- Manage and configure system interfaces
- Explain how to use naming services (NIS and DNS)
- Explain the main features and uses of naming services
- Explain the use of the nsswitch.conf and the /etc/host file
- Configure and manage CIFS shares
- Recognize the purpose of shared folders and identify the different sharing options in Windows
- Identify the available shared folder permissions and set up a shared folder with different permissions for different groups
- Configure and manage NFS shares
- Define and configure volumes and aggregates
- Configure RAID groups in Data ONTAP
- Identify the benefits of Snapshot technology
- Describe Disk Management; how a FAS storage system uses disks, how disks are dually connected to a storage system for redundancy, and how to add disks to the storage system so that Data ONTAP can use them
- Explain how Data ONTAP uses raw disk space
- Explain how to calculate the raw capacity for FC or SATA disk
- State the purpose of Netbooting a NetApp storage system
- Complete software downloads and upgrades via the NOW website for the Data ONTAP operating system
- Recognize performance affecting resources such as memory and I/O (network and disk) utilization

### SCHEDULE

Russia  
Moscow 01.12-05.12.2008



## Data ONTAP CIFS Administration (CIFS)

ID NA-CIFS  
 Цена 40.500 РУБ.  
 TUs 20  
 Длительность 2 Дня

### WHO SHOULD ATTEND

- Network professionals who need to perform in-depth support, administrative functions, and performance management for CIFS protocol on a NetApp storage appliance running the Data ONTAP operating system.

### PREREQUISITES

- **Data ONTAP Fundamentals** course or equivalent knowledge

### COURSE OBJECTIVES

CIFS Administration is designed for those who provide support and administration for a CIFS environment on NetApp storage systems running the Data ONTAP operating system. This course is delivered using a Windows host. The course covers the different server environments where a storage system can support Windows client users, the licensing and setting up of CIFS on the storage system, configuring files and options, administering a storage system including creating and managing shares, users, and groups, and troubleshooting CIFS problems.

### SCHEDULE

Russia  
 Moscow 09.12-10.12.2008

### COURSE CONTENT

- Describe the different server environments
- Identify the appropriate server environment for your storage system to support Windows client users
- Configure the CIFS environment on a storage system by licensing CIFS, setting up CIFS, and configuring files and options
- Administer a storage system in a CIFS environment including creating and managing shares, users, groups, and sessions
- Explain how to troubleshoot basic CIFS problems



## Data ONTAP NFS Administration (NFS)

ID NA-NFS  
 Цена 20.250 РУБ.  
 TUs 10  
 Длительность 1 День

### WHO SHOULD ATTEND

- Network professionals who need to perform in-depth support, administrative functions, and performance management for the NFS protocol on a NetApp storage appliance running the Data ONTAP operating system.

### PREREQUISITES

- **Data ONTAP Fundamentals** course or equivalent knowledge

### COURSE OBJECTIVES

This course is intended to provide product training on the Data ONTAP Release 7.2 (incorporating Data ONTAP Release 7.1). The course will prepare students to perform in-depth support, administrative functions, and performance management for the NFS protocol on a NetApp storage system, running the Data ONTAP operating system.

### COURSE CONTENT

- Explain NFS protocol overview, NFS versions, and NFS Implementation criteria
- Configure and administer client and server in an NFS environment

- State the rules for exporting resources to hosts, subnets, and netgroups
- Explain the /etc/exports access options and how they relate to mount permissions
- Analyze NFS performance using sysstat, nfsstat and other commands
- Collect and analyze data to assist with troubleshooting storage system hardware, operating system, network connections, NFS configuration files and options



### SCHEDULE

Russia  
 Moscow 08.12.2008

## Data ONTAP SAN Administration (SAN)

ID NA-SAN  
 Цена 60.750 РУБ.  
 TUs 30  
 Длительность 3 Дня

### WHO SHOULD ATTEND

- Network professionals who need to perform in-depth support, administrative functions, and performance management for FCP for SCSI or iSCSI for TCP/IP protocol on a NetApp storage appliance running the Data ONTAP operating system.

### PREREQUISITES

- **Data ONTAP Fundamentals** course or equivalent knowledge

### COURSE OBJECTIVES

This course is designed for those who provide support and administration for FC and IP SAN environments running the Data ONTAP operating system. This course is delivered using Windows and SUN hosts. The course covers SAN infrastructure preparation, storage provisioning options, creation and management of LUNs and volumes, multipathing and high availability, Fibre Channel of modes, and troubleshooting techniques.

### COURSE CONTENT

- Define the characteristics of a SAN environment and how LUNs relate to the storage system
- Describe the components of FC and IP SANs
- Describe size planning requirements for LUNs
- Create and manage LUNs on a storage controller for both Windows and UNIX hosts
- Explain FC and IP SAN multipathing options for Windows and UNIX operating systems
- Explain how to troubleshoot common SAN issues

#### SCHEDULE

Russia  
 Moscow 15.12.-17.12.2008



## Data Protection & Retention (DPR)

ID NA-DPR  
 Цена 40.500 РУБ.  
 TUs 20  
 Длительность 2 Дня

### WHO SHOULD ATTEND

- Administrators and support personnel who will use the SnapMirror, SnapRestore, SnapVault, OSSV, SnapLock, and LockVault to manage mission critical data in the enterprise.

### COURSE OBJECTIVES

A mixture of lecture and hands-on activities teach concepts and techniques needed to effectively use the SnapMirror, SnapRestore, SnapVault, OSSV, SnapLock, and LockVault solutions.

### PREREQUISITES

- **Data ONTAP Fundamentals** course

### COURSE CONTENT

- Overview and Components
- Snapshot Review
- SnapRestore
- SnapMirror
- SnapVault
- OSSV
- Best Practices and Troubleshooting
- NDMP Fundamentals
- SnapLock

#### SCHEDULE

Russia  
 Moscow 18.12.-19.12.2008



# MS Exchange on NetApp Storage Systems (MSEXC)

ID NA-MSEXC  
TUs 30  
Длительность 3 Дня

## WHO SHOULD ATTEND

- Windows and Exchange administrators

## PREREQUISITES

- **Data Protection Solutions (DPS)** course; Microsoft course 2400: Implementing and Managing Microsoft Exchange Server 2003/2007; Microsoft course 2011: Troubleshooting Microsoft Exchange Server 2003/2007

## COURSE OBJECTIVES

This solution-based course focuses on the optimization of Microsoft Exchange in a NetApp storage environment. This course takes students through the entire systems integration process of architecture planning, data migration, backup and restore, disaster recovery, and troubleshooting.

## COURSE CONTENT

- Solution Overview
- MS Exchange Storage Internals
- Architecture, Planning, Provisioning
- Implementation and Migration
- Backup and Restore using SnapManager
- Disaster Recovery Scenarios
- Troubleshooting



# MS SQL Server on NetApp Storage Systems (MSSQL)

ID NA-MSSQL  
TUs 40  
Длительность 4 Дня

## WHO SHOULD ATTEND

- Windows and SQL Server administrators

## PREREQUISITES

- **Data ONTAP Fundamentals (DOTF), Data Protection Solutions (DPS), Data ONTAP SAN Administration (SAN), High Availability (NAHA)** courses
- At least 1 year Microsoft SQL Server 2000/2005 Experience

## COURSE OBJECTIVES

This solution-based course focuses on the optimization of Microsoft SQL Server in a NetApp storage environment. This course takes students through the entire systems integration process of architecture planning, data migration, backup and restore, disaster recovery, and troubleshooting.

## COURSE CONTENT

- Solution Overview
- Sizing and Planning
- Deployment
- Backup and Restore
- Troubleshooting
- Disaster Planning and Recovery



# Cisco Data Center Products & Technologies



Cisco offers products, services, and programs to support a holistic view of the data center, adapting to your current and future business needs, including: Better managed data center resources; more robust business continuance; more cost effective storage area networks; enhanced data security; improved efficiency and increased business productivity.

## LAN SWITCHING



Using the network to consolidate, virtualize and automate data centers. Featured products include:

- Catalyst 6500 Modular Switch
- Cisco Catalyst 6500 10-Gigabit Ethernet Switching Module
- Catalyst 4900 Top-of-Rack Switch

## STORAGE NETWORKING



Address the challenges of managing, protecting, and scaling data storage with an efficient, reliable, and secure solution. Featured products include:

- Cisco MDS 9000 Product Portfolio
  - Cisco MDS 9020 Series Fabric Switches
  - Cisco MDS 9100 Series Multilayer Fabric Switches
  - Cisco MDS 9200 Series Multilayer Fabric Switches
  - Cisco MDS 9500 Series Multilayer Directors
- Cisco MDS 9000 Products for Intelligent Fabric Applications
- Cisco MDS 9000 SAN-OS Software
- Cisco MDS 9000 SAN Management

## SERVER NETWORKING



Build cost-effective server clusters to support high performance computing applications and distributed systems. Featured products include:

- Cisco SFS 7000 Series InfiniBand Switches
- Cisco SFS 3000 Series Multilayer Switches
- Cisco SFS High Performance InfiniBand Subnet Manager
- Cisco InfiniBand Host Channel Adapters

## BLADE SWITCHING



Maximise investment by providing secure, resilient, and manageable blade switch solutions. Featured products include:

- Cisco Catalyst 3000 Series Blade Switches
- Cisco MDS Fibre Channel Blade Switch for IBM BladeCenter and HP c-Class BladeSystem
- Cisco SFS InfiniBand Blade Switch for IBM BladeCenter

## APPLICATION NETWORKING



Increase performance, scale, and security with network-based application delivery tools. Featured products include:

- Cisco Wide Area Application Services (WAAS) Software
- Cisco ACE Application Control Engine Module
- Cisco ACE XML Gateway
- Cisco Application Content Networking Software

## DATA CENTER SECURITY



Defend critical business processes against attack and disruption, protect privacy, and support policy and regulatory compliance. Featured products include:

- Cisco Firewall Services Module
- Cisco ACE Application Control Engine Module
- Cisco ACE XML Gateway
- Cisco ASA 5500 Series Adaptive Security Appliance

## NETWORK MANAGEMENT



Automate and simplify your data center network to reduce operational costs and improve productivity. Featured products include:

- Cisco VFrame Data Center 1.1
- Cisco Fabric Manager
- Cisco Application Networking Manager
- CiscoWorks LAN Management Solution

## CISCO DATA CENTER TRAINING

Fast Lane offers comprehensive training programs for planning and implementing Cisco data center solutions. For further information please visit [www.flane.ru](http://www.flane.ru).

# Cisco Data Center / Storage Networking Certifications



The Cisco Data Center certifications validate knowledge of the corresponding Cisco technologies. Fast Lane delivers the courses you need to prepare for the certification you desire.

Предварительные требования	Рекомендованный тренинг	Дней	Тест
<b>CISCO DATA CENTER APPLICATION SERVICES SUPPORT SPECIALIST</b>			
CCNA Certification	<b>DCASI</b> Implementing Cisco Data Center Application Services	5	<b>DCASI</b> Test #642-975
<b>CISCO DATA CENTER APPLICATION SERVICES DESIGN SPECIALIST</b>			
CCDA Certification	<b>DCASD</b> Designing Cisco Data Center Application Services	5	<b>DCASD</b> Test #642-972
<b>CISCO DATA CENTER NETWORKING INFRASTRUCTURE DESIGN SPECIALIST</b>			
CCDA Certification	<b>DCNID</b> Designing Cisco Data Center Network Infrastructure	5	<b>DCNID</b> Test #642-971
<b>CISCO DATA CENTER NETWORKING INFRASTRUCTURE SUPPORT SPECIALIST</b>			
CCNP Certification	<b>DCNI-1</b> Implementing Cisco Data Center Network Infrastructure 1 <b>DCNI-2</b> Implementing Cisco Data Center Network Infrastructure 2	5 4	<b>DCNI-1</b> Test #642-973 <b>DCNI-2</b> Test #642-974
<b>CISCO DATA CENTER STORAGE NETWORKING DESIGN SPECIALIST</b>			
None	<b>DCSNS</b> Designing Cisco Storage Networking Solutions	5	<b>CSSDS</b> Test #642-355
<b>CISCO DATA CENTER STORAGE NETWORKING SUPPORT SPECIALIST</b>			
None	<b>ICSNS</b> Implementing Cisco Storage Networking Solutions <b>IASNS</b> Implementing Cisco Advanced Storage Networking Solutions	5 5	<b>CSSSS</b> Test #642-356
<b>CISCO DATA CENTER NETWORKING SALES SPECIALIST</b>			
CSE Certification	<b>DCSS</b> Cisco Data Center Solutions Sales Web-based Training		<b>DCNS</b> Test #646-976
<b>CISCO DATA CENTER STORAGE NETWORKING SALES SPECIALIST</b>			
CSE Certification	<b>DCSS</b> Cisco Data Center Solutions Sales Web-based Training		<b>DCNS</b> Test #646-976



## Implementing Cisco Storage Networking Solutions (ICSNS)

ID CI-ICSNS  
 Цена 73.700 РУБ.  
 Длительность 5 Дней

### WHO SHOULD ATTEND

- Cisco Channel Partners / Resellers and Cisco Customers

### 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 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-O 2.1, 3.0, and with basic networking content added.

### COURSE CONTENT

- MDS 9000 Platform Overview
- System Installation and Initial Configuration
- Building Virtual SANs
- Managing SAN Traffic
- Implementing FCIP
- Troubleshooting Tools and Scenarios

### SCHEDULE

Russia  
 Moscow 01.12.-05.12.2008

## Implementing Cisco Advanced Storage Networking Solutions (IASNS)

ID CI-IASNS  
 Цена 73.700 РУБ.  
 Длительность 5 Дней

### WHO SHOULD ATTEND

- Cisco Channel Partners / Resellers and Cisco Customers

### 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.

### COURSE CONTENT

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



### SCHEDULE

Russia  
 Moscow 08.12.-12.12.2008

## Designing Cisco Storage Networking Solutions (DCSNS)

ID CI-DCSNS  
 Цена 86.750 РУБ.  
 Длительность 5 Дней

### WHO SHOULD ATTEND

- Cisco Channel Partners / Resellers and Cisco Customers

### PREREQUISITES

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

### COURSE OBJECTIVES

The 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.

### COURSE CONTENT

- MDS 9000 Platform Overview
- Designing SAN Fabrics
- Consolidating Storage in the Data Center
- Securing the SAN
- Designing SAN Extension Solutions



### SCHEDULE

Russia  
 Moscow 15.12.-19.12.2008

## Implementing Cisco Data Center Network Infrastructure 1 (DCNI-1)

ID CI-DCNI-1  
 Цена 86.750 РУБ.  
 Длительность 5 Дней

### WHO SHOULD ATTEND

- Network Administrators, Network Engineers, Network Designers, System Engineers, and Network Managers involved with Data Center Infrastructure

### PREREQUISITES

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

### COURSE OBJECTIVES

The DCNI-1 course will teach you to build scalable, reliable, and intelligent Data Center networks using Catalyst 6500 Series switches. You will deploy an efficient and expandable enterprise

network using Catalyst 6500, 4900, and the Data Center Infrastructure Module of the Enterprise Composite Network Model (ECNM). Explore the capabilities and performance considerations of the Catalyst 6500 Series switch supervisor modules including Sup720-3B/BXL, Sup32-PISA, and Sup720-10G-3C/CXL. In class you will identify and implement traffic flows including FWSM routed/transparent modes, supervisor based packet acceleration, and FWSM—PISA integration and describe the multiple contexts concept, and how multiple contexts are provisioned and managed on FWSM.

### SCHEDULE

Russia  
 Moscow 17.11-21.11.2008

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

ID CI-DCNI-2  
 Цена 69.400 РУБ.  
 Длительность 4 Дня

### WHO SHOULD ATTEND

- Network Administrators, Network Engineers, Network Designers, System Engineers, and Network Managers involved with Data Center Infrastructure

### PREREQUISITES

- The course assumes a good understanding of a lot of networking technologies and procedures. Students not fulfilling these prerequisites will have difficulties following the course and succeeding in the included lab exercises. It is recommended that you have CCNP or CCIE Routing and Switching certification status or equivalent knowledge.

### COURSE OBJECTIVES

Cisco Data Center Networking Infrastructure-2 (DCNI-2) is a 4-day hands-on training that teaches you how to implement an

enterprise Data Center routing and switching infrastructure with the next-generation Cisco Nexus 7000 and 5000 platforms. The first 3 days will focus on the Nexus 7000, with an overview of the Nexus 5000 and FCoE on Day 4. This 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 features of NX-OS and the Nexus platform by performing hands-on labs using a Nexus 7000 simulator.



### SCHEDULE

Russia  
 Moscow 11.11-14.11.2008

## Wide Area Application Services (WAAS)

ID CI-WAAS  
 Цена 52.050 РУБ.  
 Длительность 3 Дня

### WHO SHOULD ATTEND

- Cisco Channel Partners / Resellers and Cisco Customers

### PREREQUISITES

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

### COURSE OBJECTIVES

WAAS is a 3-day, instructor-led, lecture / lab course that 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 sharing.

### COURSE CONTENT

- Introduction to Cisco WAAS
- Designing Cisco WAAS Solutions; Lab 1: Design Challenge
- Implementation, Integration, and Management; Lab 2: Initial Cisco WAAS Configuration; Lab 3: Configuring WAN Optimization; Lab 4: Configuring Application Acceleration
- Troubleshooting Cisco WAAS

### SCHEDULE

Russia  
 Moscow 05.11.-07.11.2008

Наши консалтинговые услуги позволяют установить высокотехнологичные решения по хранению данных. Мы также предоставляем поддержку для дальнейшего развития ваших решений. Мы поможем внедрить решения и подготовить ваших ИТ специалистов для дальнейшей работы с новой технологией.

Смело рассчитывайте на наш сервис на протяжении всего пути.

- ROI анализ, выполнимость задач
- Планирование и дизайн решений
- Выбор компонентов
- Консалтинг на стадии имплементации
- Тренинг

Узнать больше о наших консалтинговых услугах и пригласить нашего специалиста Вы сможете посетив наш сайт [www.flane.ru](http://www.flane.ru)



Authorized Learning Partner

## About Fast Lane

### Fast Lane - Профиль компании

Группа компаний Фаст Лейн является одним из ведущих мировых тренингов-провайдеров компании Cisco и эксклюзивным глобальным партнером по тренингу компании Network Appliance. Опытный и стабильный Cisco Learning Solutions Partner, Фаст Лейн имеет филиалы во всех регионах мира. Головные офисы фирмы находятся в Берлине, Кэри (США), Дубае, Сиднее и Токио.

### Профессиональная Сеть Тренинга и Консалтинга

Фаст Лейн завоевала репутацию лидирующей компании за сложные сетевые проекты, как в области консалтинга, так и квалификационных вендорских учебных программ. Наряду с курсами собственной разработки, Фаст Лейн предлагает курсы Cisco по маршрутизации и коммутации, дизайну, курсы для сервис-провайдеров. Специальные тренинги в сферах голосовых технологий, ИТ безопасности, беспроводных и оптических технологий, а также систем хранения данных, дополняют предложение компании.

### Передовая Инфраструктура

#### включает в себя более 100 Учебных и Демо Лабораторий

Спектр консалтинговых услуг Фаст Лейн, независимых от вендоров, включает в себя широкий диапазон задач от предварительного анализа и оценки проекта до дизайна самых современных сетевых решений. У нас есть значительный опыт в управлении и реализации высокотехнологичных проектов для партнеров и заказчиков. Объединяя ключевые услуги тренинга и консалтинга, Фаст Лейн имеет опыт проведения курсов без отрыва от работы и имеет возможность консультировать специалистов заказчика на рабочем месте.

Фаст Лейн предлагает уникальный в мире комплекс дистанционного оборудования, покрывающий все аспекты сетевых решений высокого уровня. Имеющееся в наличии современное оборудование и технологии, а также первоклассный сервис поистине поднимают планку качества в области ИТ тренинга. Кроме того, доступность лабораторий через Интернет даёт возможность заказчикам по всему миру осваивать самые современные стандарты и технологии в ИТ индустрии.



# Заявка на участие

## Факс +7 (812) 633 04 99



### Информация о компании

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Фамилия

Имя

Должность

Адрес

Индекс

Страна

Телефон

Факс

E-mail

Наименование курса \ ID	Дата \ Место проведения	Стоимость

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