

Fast Lane

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TRAINING RESELLER

NetApp
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cisco
Learning
Specialized
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KURSKATALOG 2013/2014

**Network training
for real progress.**



**Cisco
NetApp
VMware
Fast Lane**

Den säljbara skillnaden.

Vårt jobb är att utbilda nätverkstekniker på ny teknik. Det är en uppgift som gör att vi alltid måste ha teoretiskt kompetenta, praktiskt erfarna instruktörer och en uppdaterad lab-miljö. För att vara förberedda har vi applicerat ett holistiskt synsätt på vår utbildningsprocess.

Konvergerande teknikområden gör det viktigt att se nätverksteknikerns framtida roll i en helhet som tar hänsyn till sättet man vill studera på, starka och svaga sidor och arbetsgivarens behov. Vi ger möjlighet att skaffa sig en bred och djup kompetens som är framtidssäker. Kunderna ska ha möjlighet att lära på de sätt som passar dem bäst. Vi ser själva inlärningsfasen som en heltäckande process från kursanmälan till certifiering där vi använder Blended Learning som en plattform för anpassade studier.

Historiskt har vi hjälpt till att göra Data Center-tekniken begriplig. Med Nexus och UCS får man bättre effektivitet, funktion och hastighet. Med FlexPod/ExpressPod får man maximal skalbarhet och funktionalitet in i storagevärlden. Allt detta öppnar upp för möjligheter vi aldrig tidigare sett.

En av dem är Cisco ONE, Open Network Environment, som kan bli nästa stora paradigmskifte. Cisco ONE är Ciscos varumärke avseende SDN, Software Defined Networking. I SDN kan logiken flyttas runt i nätet, hantering och administration blir enklare och möjligheten att optimalt utnyttja investeringarna ökar. Kunskapskraven för de som designar och implementerar lösningarna ökar däremot markant. Gårdagens specialist blir »bara« en generalist om man inte uppdaterar, fördjupar och breddar sin kompetens.

Vi har den tekniska kunskapen, utrustningen och verktygen som gör att vi kan lotsa våra kunder in i SDN. Vi kan hjälpa er att skapa framtidens nätverksproffs.

Vi kallar det den säljbara skillnaden.



Anders Oxelcrantz
VD Fast Lane Nordic

Innehållsförteckning

ENTERPRISE NETWORKS

Cisco Enterprise Networks certifieringar 6

CISCO ROUTING & SWITCHING

Interconnecting Cisco Network Devices Part 1 (ICND1)	8
Interconnecting Cisco Network Devices Part 2 (ICND2)	8
Interconnecting Cisco Network Devices: Accelerated (CCNAX)	8
Implementing Cisco IP Routing (ROUTE)	8
Implementing Cisco IP Switched Networks (SWITCH)	8
Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)	9
Cisco Professionals Troubleshooting (CPT)	9
Cisco CCIE 360° Learning Program	9
Cisco Internetwork Expert Routing & Switching 1 (CIERS1)	9
Cisco Internetwork Expert Routing & Switching 2 (CIERS2)	9

CISCO CATALYST 6500 WORKSHOPS

Implementing Cisco Catalyst 6500 Series Switches (RSCAT6K)	10
Virtual Switching System VSS 1440/4T (VSS)	10
Cat. 6500 and Cisco 7600 Series Routers Firewall Services Module Deployment (FWSMD) ..	10

CISCO NETWORK MANAGEMENT

Implementing CiscoWorks LMS (CWLMS)	11
Cisco Prime Infrastructure 2.0 Workshop (PRIME)	11

FAST LANE DATAKOM

Networking & TCP/IP Fundamentals (NWF)	12
Troubleshooting TCP/IP Fundamentals (TTCP)	12

FAST LANE NÄTVERKSANALYS MED WIRESHARK

Packet Analysis Power Workshop (PAPW)	13
Analysing MS-Windows Networking (AWN)	13

CISCO NETWORK DESIGN

Designing for Cisco Internetwork Solutions (DESIGN)	14
Designing Cisco Network Service Architectures (ARCH)	14

CISCO WIRELESS / MOBILITY

Implementing Cisco Unified Wireless Networking Essentials (IUWNE)	15
Conducting Cisco Unified Wireless Site Survey (CUWSS)	15
Implementing Advanced Cisco Unified Wireless Security (IAUWS)	15
Implementing Cisco Unified Wireless Voice Networks (IUWVN)	15
Implementing Cisco Unified Wireless Mobility Services (IUWMS)	15
CCNP Wireless Bootcamp (CCNPWBC)	15
Cisco Unified Wireless Networking (CUWN)	16
Managing Cisco Wireless LANs (WMNGI)	16
Cisco CCIE Wireless Written Power Workshop (CCIEWW)	16
Cisco CCIE Wireless Lab Power Workshop (CCIEWL)	16

CISCO SERVICE PROVIDER

Building Cisco Service Provider Next-Generation Networks, Part 1 (SPNGN1)	17
Building Cisco Service Provider Next-Generation Networks, Part 2 (SPNGN2)	17
Deploying Cisco Service Provider Network Routing (SPROUTE)	17
Deploying Cisco Service Provider Advanced Network Routing (SPADVROUTE)	17
Impl. Cisco Service Provider Next-Generation Core Network Services (SPCORE)	17
Impl. Cisco Service Provider Next-Generation Edge Network Services (SPEDGE)	17
Configuring BGP on Cisco Routers (BGP)	18
Implementing Cisco MPLS (MPLS)	18
Implementing Cisco Quality of Service (QOS)	18
Implementing Cisco Multicast (MCAST)	18
Implementing MPLS Traffic Engineering & other Features (MPLST)	18
IPv6 Fundamentals, Design & Deployment (IP6FD)	19
CCIE Preparation Lab Service Provider (CCIESP)	19

FAST LANE IPv6 FOR SERVICE PROVIDERS

Implementing IPv6 Solutions for Service Providers (IPV6SPSE)	20
Introduction to IPv6 for Service Providers (IPV6SPAM)	20

CISCO OPTICAL

Optical Technology Fundamentals (OTF)	21
Cisco ONS Time Division Multiplexing (TDM) SONET (ONS_TDM_SONET) ..	21
Cisco Prime Optical Operation & Maintenance (PRIMEOPTICAL)	21
AS-Cisco ONS 15454 MSTP Impl. DWDM from Instal. to Protection Release (MSTP FITP) ..	21
AS - Cisco ONS 156454 MSTP Release 9.3 Adv. Topics and Data over DWDM (MSTP ATD) ..	21

CISCO SALES ENTERPRISE NETWORKS

Cisco Sales Essentials (CSE)	22
Borderless Network Architecture Baseline Workshop (BNABW)	22
Borderless Network Mobility for Account Managers (BNMAM)	22
Secure Mobility Solutions for Account Managers (SMAM)	22
(BYOD) Smart Solution Sales for Account Managers (SBYOD)	22
Medianet Sales Workshop (MNWS)	22
Cisco Medianet Technical Clinic (TCMN)	22

CISCO ADVANCED SERVICES ENTERPRISE NETWORKS

Cisco Advanced Services Enterprise Networks	23
---	----

SECURITY

Cisco Security certifieringar 24

CISCO SECURITY

Implementing Cisco IOS Network Security 2.0 (IINS)	25
Securing Networks with Cisco Routers & Switches (SECURE)	25
Deploying Cisco ASA Firewall Features (FIREWALL)	25
Deploying Cisco ASA VPN (VPN)	25
Implementing Cisco Intrusion Prevention System (IPS7)	25
Implementing and Configuring the Cisco Identity Service Engine (SISE) ..	26
Implementing Cisco Secure Access Control System v5.4 (ACS)	26
Advanced IPsec (AIPSEC)	26
Cisco ASA Specialist Power Workshop (CASPW)	26
CCNP Security Boot Camp (CCNPSEC)	26
Implementing Cisco NAC Appliance (CANAC)	26
Managing Enterprise Security with Cisco Security Manager (SSECMGT) ..	27
CCIE Security Lab Bootcamp (CCIESL)	27

FAST LANE SÄKERHET

RADIUS and TACACS+ with the Cisco Access Control Server (FL-ACS)	27
ANTI-HACKING Workshop (HACK)	27

CISCO IRONPORT SECURITY

Securing Email with Cisco Email Security Appliance (SESA)	28
Securing Email with Cisco Email Security Appliance (Partner Tr.)(PASESA) ..	28
Securing the Web with Cisco Web Security Appliance (SWSA)	28
Securing the Web with Cisco Web Security Appliance (Partner Tr.)(PASWSA) ..	28
Implementing Cisco AnyConnect Secure Mobility Solution (SIASM)	28

CISCO SALES SECURITY

Cisco Sales Essentials (CSE)	29
Secure Mobility Solutions for Account Managers (SMAM)	29
Cisco ISE Solutions for Account Managers (ISEAM)	29

CISCO ADVANCED SERVICES SECURITY

Cisco Advanced Services Security	29
--	----

COLLABORATION

Cisco Collaboration certifieringar 30

CISCO UNIFIED COMMUNICATIONS

Introducing Cisco Voice and Unified Communications Administration (ICOMM8)	31
Implementing Cisco IOS Unified Communications Part 2 (IUC2)	31
Implementing Cisco Unified Communications Voice over IP and QoS (CVOICE 8)	31
Implementing Cisco Unified Communications Manager 1 (CIPT1 8)	31
Implementing Cisco Unified Communications Manager 2 (CIPT2 8)	31
Troubleshooting Cisco Unified Communications (TVOICE 8)	32
Integrating Cisco Unified Communications Applications (CAPP8)	32
Administering Cisco Unified Communications Manager 7.0 (ACUCM)	32
Cisco Unified Communications Architecture & Design (UCAD)	32
Implementing Cisco Unified Communications Security (UCSEC)	32
Administering Cisco Unity Connection (AUC 8)	33
Implementing Cisco Unity Connection (IUC 8)	33
Cisco Unity Design & Networking (CUDN)	33
Cisco Unified Presence Design and Implementation (PRSDI)	33
Cisco Business Edition 6000 Implementation and Admin. (BE6KIA)	33

CISCO UNIFIED CONTACT CENTER

Deploying Cisco Unified Contact Center Express (UCCX)	34
Unified Contact Center Express Advanced (UCCXA)	34
Implementing Cisco Unified E-Mail & Web Interaction Manager Enterprise (UEIME) ..	34
Customer Voice Portal Implementation (CVPI)	34
Cisco CVPD Training (CVPD)	34
CVPD Java Development for Call Studio (CVPD-JAVA)	34

TELEPRESENCE

Implementing Cisco Video Network Devices, Part 2 (VIVND2)	35
Implementing Express TelePresence Video Solutions (PAIETVS)	35
Implementing Advanced TelePresence Video Solutions Part 1 (PAIATVS1)	35
Implementing Advanced TelePresence Video Solutions Part 2 (PAIATVS2)	35
Installing TelePresence Video Immersive Solutions (PAITVIS)	35
Physical Installation of Cisco TelePresence Systems (PITS)	36
Implementing Cisco TelePresence Solutions (ITS)	36
Implementing Cisco TelePresence Solutions Immersive (ITSI)	36
Advanced Services - Designing the Cisco TelePresence Solution (TPDSG)	36

CISCO UNIFIED MEETING PLACE

Designing Cisco Unified MeetingPlace Solutions (DMPS)	37
Implementing Cisco Unified MeetingPlace (IMPS)	37

CISCO SERVICE PROVIDER VOICE

IP Transfer Point v2.0 (ITP)	37
------------------------------------	----

Innehållsförteckningen fortsätter på nästa sida ►

Innehållsförteckning FORTS

CISCO SALES COLLABORATION

Cisco Sales Essentials (CSE)	38
Collaboration Architecture Baseline Workshop (CABW)	38
WebEx Social for Account Managers (WSAM)	38
Medianet Sales Workshop (MNWS)	38
Cisco Medianet Technical Clinic (TCMN)	38
Cisco Business Edition 6000 for Account Managers (BE6KAM)	38

CISCO ADVANCED SERVICES COLLABORATION

Cisco Advanced Services Collaboration	39
---------------------------------------	----

DATA CENTER & VIRTUALIZATION

Cisco Data Center certifieringar	40
----------------------------------	----

CISCO DATA CENTER BASICS

Introducing Cisco Data Center Networking (DCICN)	41
Implementing the Cisco Nexus 5000 and 2000 (DCICT)	41

FAST LANE STORAGE

Storage Foundation (FL-SAN)	41
-----------------------------	----

CISCO DATA CENTER SWITCHING

Configuring the Cisco Nexus 1000V (DCNX1K)	42
Configuring Cisco Nexus 5000 (DCNX5K)	42
Configuring Cisco Nexus 7000 (DCNX7K)	42
Cisco Nexus Overview Workshop (CNOW)	42
Cisco Data Center 3.0 Architectural Overview (DCAO)	42
Implementing Cisco Data Center Network Infrastructure 1 (DCNI-1)	42
Fiber Channel over Ethernet Overview (FCOE)	42
Implementing Cisco Data Center Unified Fabric (DCUFI)	43
Troubleshooting Cisco Data Center Unified Fabric (DCUFT)	43
Data Center Unified Fabric Design (DCUFD)	43

CISCO UNIFIED COMPUTING

Implementing Cisco Data Center Unified Computing 4.2 (DCUCI)	44
Designing Cisco Data Center Unified Computing 4.2 (DCUCD)	44
Troubleshooting Cisco Data Center Unified Computing (DCUCT)	44
Cisco Data Center Unified Computing System C-series Troubleshooting (DCUCSCTS)	44
Implementing Enhanced Secure Multi-Tenancy (IESMT)	44

CISCO STORAGE NETWORKING

Implementing Cisco Storage Networking Solutions (ICSNS)	45
Implementing Cisco Adv. Storage Networking Solutions (IASNS)	45
Designing Cisco Storage Networking Solutions (DCSNS)	45
Configuring Cisco MDS 9000 Switches (DCMDS)	45

CISCO FLEXPOD TRAINING

FlexPod for Account Managers (FPAM)	46
Architecture and Design of FlexPod Datacenter (ADFPD)	46
FlexPod Implementation (FPI)	46
FlexPod for VMware Essentials (FPVE)	46
FlexPod for VMware Design and Implementation (FPVI)	46
FlexPod for VMware Administration (FPVA)	46
Implementing Enhanced Secure Multi-Tenancy (IESMT)	46
FlexPod UCS Director Infrastructure Management (FPUCSDIM)	46

CISCO APPLICATION NETWORKING

Designing Data Center Application Services (DCASD)	47
Implementing Data Center Application Services (DCASI)	47
Cisco Wide Area Application Services (CWAAS)	47
Implementing the ACE Service Module (ACESM)	47
Designing an Enterprise Application Infrastructure with the ACE Family (ACEDES)	47
Cisco Application Control Engine Appliance (ACEAP)	47
ACE Workshop (ACEWS)	47

CISCO VIRTUALIZATION

VXI/VDI for Account Managers (VXAM)	48
VXI/VDI for System Engineers (VXSE)	48
Implementing VXI & VDI (VXDI)	48

CISCO SALES DATA CENTER & VIRTUALIZATION

Cisco Sales Essentials (CSE)	49
Cisco Data Center 3.0 Architectural Overview (DCAO)	49
Data Center Security Sales for Account Managers (DCSWS)	49
Cisco Data Center Security Sales for SEs (SDCSE)	49
FlexPod for Account Managers (FPAM)	49
VXI/VDI for Account Managers (VXAM)	49
VXI/VDI for System Engineers (VXSE)	49

CISCO ADVANCED SERVICES DATA CENTER

Cisco Advanced Services Data Center	49
-------------------------------------	----

NETAPP

NetApp certifieringar	50
-----------------------	----

NETAPP PLATFORM OS

Basic NetApp Configuration and Administration (BNCA)	51
Data ONTAP 7-Mode Administration (D7ADM)	51
Accelerated NCDA Boot Camp Data ONTAP 8.0 7-Mode (ANCDABC87)	51
NCDA Boot Camp (NCDABC)	51
Performance Analysis on Data ONTAP (PAD)	51
Clustered Data ONTAP 8.2 Administration (DCADM)	51

NETAPP PROTOCOLS

Data ONTAP CIFS 8.2 Administration (CIFS)	52
Data ONTAP NFS 8.2 Administration (NFS)	52

NETAPP SAN

SAN Implementation (SANIW)	52
SAN Scaling and Architecting (SANSAs)	52

NETAPP E-SERIES

Configuring NetApp E-Series Storage Systems (ESERIESCONFIG)	53
Maintaining NetApp E-Series Storage Systems (ESERIESMAIN)	53

NETAPP PARTNER TRAINING

NetApp Hands on Installation Workshop (HOIW)	53
NetApp Hands On Labs - EXAM (HOIW EXAM)	53

NETAPP DATA PROTECTION

NetApp Protection Software Administration (NPSA8)	54
SnapProtect Solution Administration (SPSA)	54
NetApp MultiStore Administration (NMA)	54
MetroCluster & High Availability (METRO)	54

NETAPP MANAGEMENT SOFTWARE

NetApp OnCommand Unified Manager Administration (OCADM)	55
NetApp OnCommand Insight Operation and Best Practices (OCIOBP)	55

NETAPP APPLICATIONS

Impl. Microsoft Exchange on NetApp Storage Systems (MSEXC)	55
Impl. Microsoft SQL Server 2012 on NetApp Storage Systems (MSSQL)	55
Implementing Oracle on NetApp Storage Systems (ORONSS)	55

NETAPP VIRTUALIZATION

VMware vSphere on NetApp (VUNA)	56
Design and Implement Virtualization Solutions on NetApp Storage (DIVS)	56
Implementing Hyper-V on Data ONTAP (IHVDO) COMING SOON!	56
Implementing VMware vSphere on Data ONTAP (IWVDO) COMING SOON!	56

NETAPP FLEXPOD TRAINING

FlexPod for Account Managers (FPAM)	57
Architecture and Design of FlexPod Datacenter (ADFPD)	57
FlexPod Implementation (FPI)	57
FlexPod for VMware Essentials (FPVE)	57
FlexPod for VMware Design and Implementation (FPVI)	57
FlexPod for VMware Administration (FPVA)	57
Implementing Enhanced Secure Multi-Tenancy (IESMT)	57
FlexPod UCS Director Infrastructure Management (FPUCSDIM)	57

VMWARE

VMware certifieringar	58
-----------------------	----

VMWARE VSPHERE

VMware vSphere 5.1: Install, Configure, Manage (VICM)	59
VMware vSphere 5.1: Fast Track (VVFt)	59
VMware vSphere 5.1: What's New (VIWN)	59
VMware vSphere 5.1: Skills for Operators (VSO)	59
VMware vSphere 5.1: Troubleshooting Workshop (VSTS)	59
VMware vSphere 5: Optimize and Scale (VOS)	59
VMware vSphere 5: Design Workshop (VDW)	59

VMWARE VCLOUD

VMware vCloud Director: Install, Configure, Manage (VCDICM)	60
VMware vCloud: Design Best Practices (VCDBP)	60
VMware vCloud Automation Center 5.2: Install, Configure, Manage (VCACICM)	60

VMWARE VCENTER

VMware vCenter Configuration Manager: Introduction (VCMi)	61
VMware vCenter Site Recovery Manager: Install, Configure, Manage (VSRM)	61
VMware vCenter Config. Manager for Virtual Infrastructure Management (VCMIM)	61
VMware vCenter Orchestrator: Developing Custom Workflows (VCDOW)	61

VMWARE VIEW

VMware Horizon View 5.2: Install, Configure, Manage (VHVICM)	62
VMware View 5.1: Install, Configure, Manage (VIEW)	62
Application Virtualization Using VMware ThinApp (THIN)	62
VMware View 5.1: Desktop Fast Track (VIEWFT)	62
VMware View 5.x: Design Best Practices (VVD)	62

FAST LANE Praktiska upplysningar och allmänna villkor	63
--	----

Fast Lanes utbildningar

Fast Lanes utbildningar är utvalda och framtagna för att täcka alla teknikområden inom datakommunikation, storage och telekommunikation. Vi på Fast Lane ser till att branschens yrkesverksamma tekniker har den kompetens som krävs för att både designa, implementera och använda den senaste tekniken. Vi levererar såväl öppna/schemalagda kurser som företagsanpassade/företagsspecifika kurser hos oss eller hos kund.

KOMPLETT UTBUD

Vi erbjuder ett komplett utbud av datakommunikations utbildningar, allifrån grund till specialistnivå. Med marknadens bästa lärare är vi förberedda för de utmaningar som teknikutvecklingen innebär. Vi är också fullt införstådda med de krav som certifieringar ställer på oss som utbildare och på er som elever.

SKRÄDDARSYDDA KURSER

Vi kan skraddarsy utbildningar till våra kunder. Vi sätter samman det innehåll som bäst motsvarar ditt företags behov, oavsett om det handlar om grundutbildningar eller specialist-utbildningar. Med hjälp av remote och mobila lab kan vi dessutom leverera kursen där ni vill. Allt vi behöver är en Internet-uppkoppling. Hör av er om era behov så återkommer vi med en genomarbetad offert.

MARKNADENS BÄSTA INSTRUKTÖRER

Vi har Marknadens bästa instruktörer. Vårt utbud ser till att de håller sig på tårna vad gäller erfarenhet och utveckling. Därför är det viktigt att våra instruktörer själva arbetar som tekniker när de inte är hos oss och utbildar våra elever. Det gäller att inte förlora fingertoppskänslan.

VÄRLDENS BÄSTA LÄRARE

Genom våra systerföretag kan vi dessutom lova att vi har tillgång till världens bästa instruktörer. De absolut bästa specialisterna inom varje område finns i vårt nätverk och kan bokas in när ni behöver dem. Antingen på plats här i Sverige eller om ni hellre vill, i sina respektive hemländer. All internationell utbildning sker givetvis på engelska om inget annat önskas. Fast Lane är certifierade som Cisco Learning Solutions Partner och NetApp Training Center i alla regioner världen över.

AVANCERADE LAB

Mycket av utbildningen sker Hands-On. En kombination av teori och praktik är det bästa sättet att lära sig. Vi har tillgång till alla de avancerade lab som behövs för att vi ska kunna ge er den kompetens ni söker.

CISCO LEARNING CREDITS & NETAPP TRAINING UNITS

Du kan betala dina Cisco och NetAppkurser med Ciscos Learning Credits (CLCs) eller NetApp Training Units (TUs). Momsen är inräknad i priset.

FLEX COURSES & ONLINE LEARNING CENTER

Många av våra kurser kan du delta i på distans. Du sitter hemma och arbetar lika effektivt som i salen. Vi har också ett Online Learning Center, *fastlane-community.com*. Där hittar du både fria utvärderingstester, forum och kunskapsbank. Du kan själv testa din kunskapsnivå för att se vilken kurs du behöver för din fortsatta utveckling. Du kan även använda forumet för att ställa frågor. Våra instruktörer finns ofta med i trådarna och ger dig korrekt information.

Routing & Switching



Unified Communications



TelePresence



MeetingPlace



Data Center & Virtualization



Security & VPN



Wireless LAN

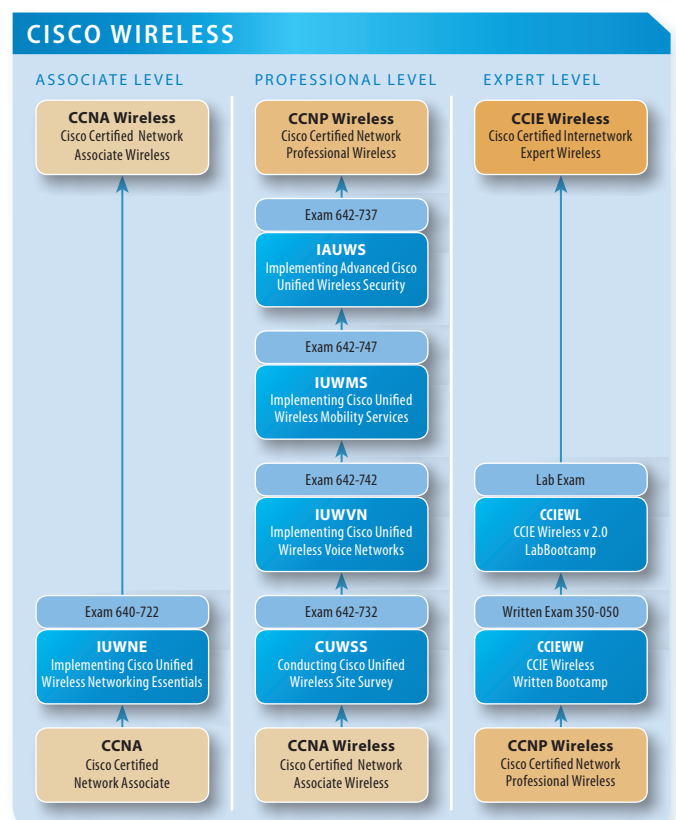
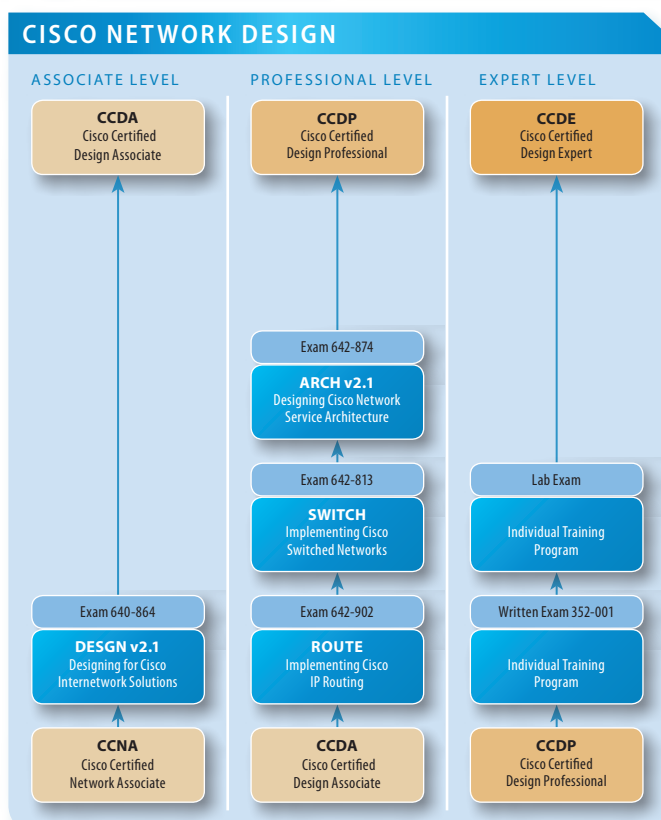
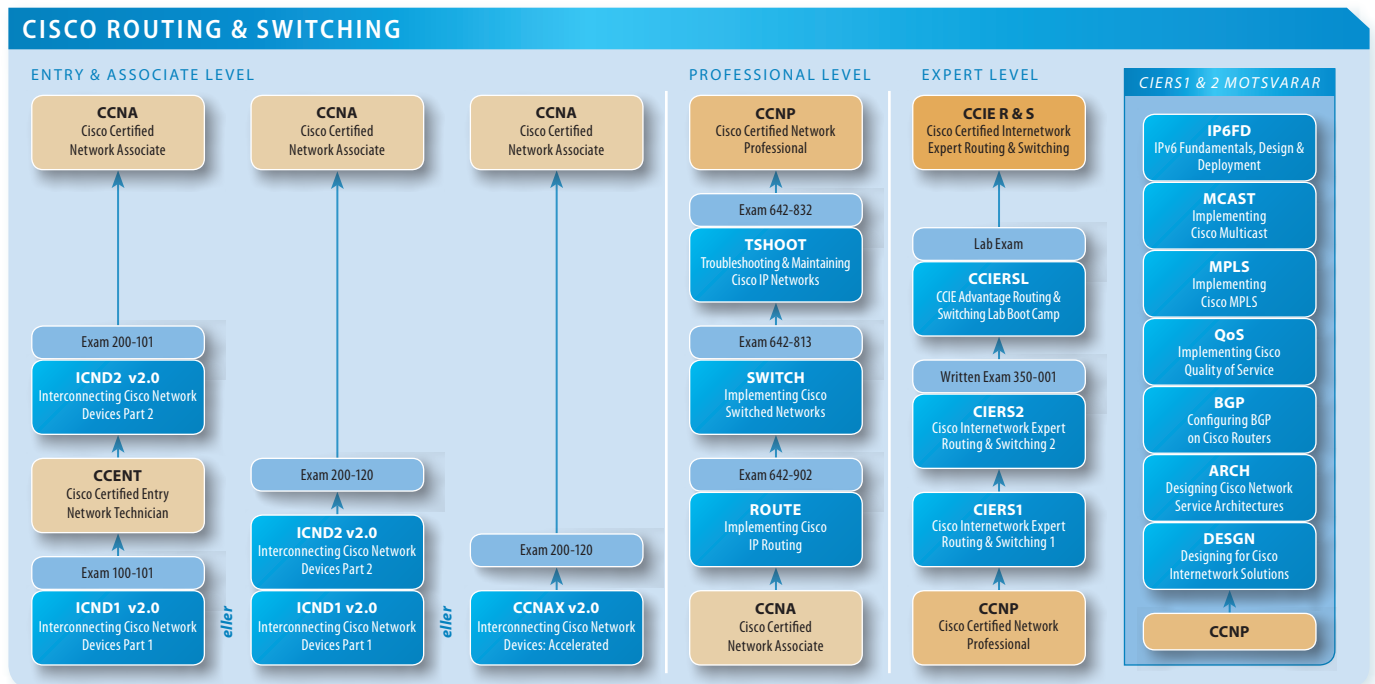
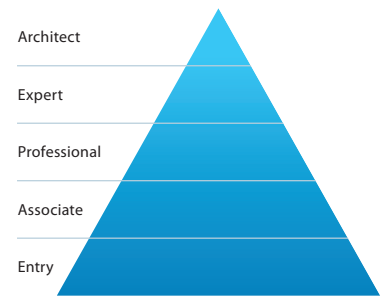


Cisco Enterprise Networks certifieringar

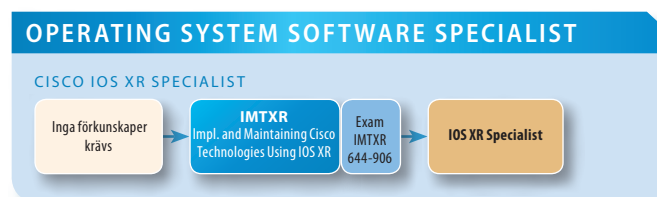
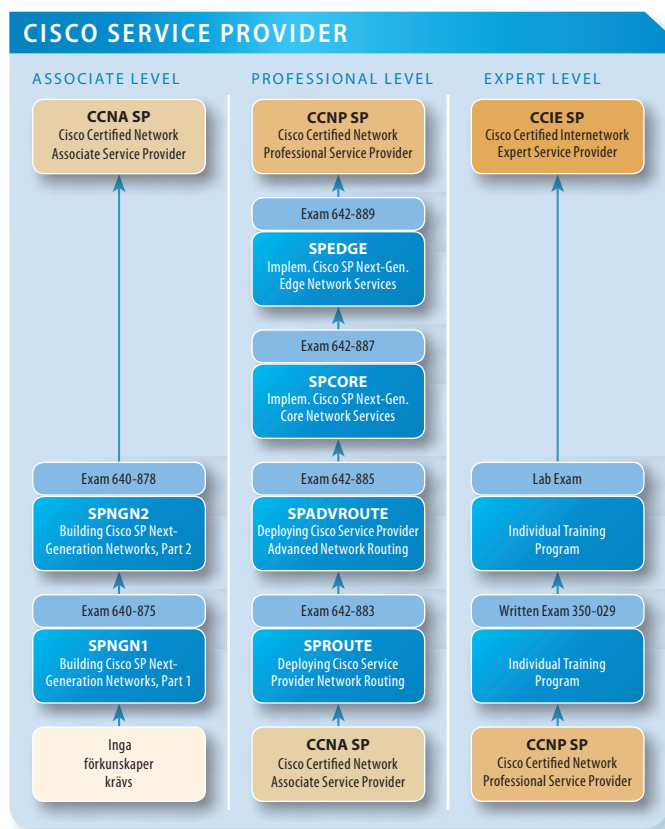


Ciscos certifieringar leder till IT-världens bästa kvalitetssäkring. De används i producentledet, leverantör-/integratörsledet och som en karriärväg för den enskilde teknikern. De räknas som de mest eftersökta kvalifikationerna för nätverksspecialister.

Ciscos certifieringar finns i fem nivåer. Basnivåerna är Entry och Associate, mellannivån är Professional. De högsta nivåerna är Expert och Architect.

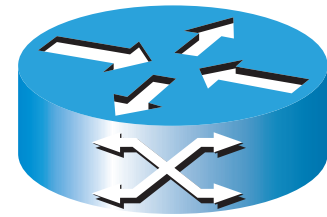


Förutom Ciscos generella certifieringar finns specialistcertifieringarna som visar kompetensnivån inom specifika områden.



CISCO ROUTING & SWITCHING

Routing och Switching är det första steget in i nätverksvärlden. ICND1 och ICND2 ger dig plattformen för att arbeta med Ciscos produkter. Ökat användande leder till ökade krav på bandbredd och QoS. Skalbarhet såväl som enkelhet är nyckelord. ROUTE, SWITCH och TSHOOT ger dig kompetensen som behövs.



Interconnecting Cisco Network Devices Part 1 (ICND1)

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small branch office Enterprise network, including configuring a switch, a router, and connecting to a WAN and implementing network security. A Student should be able to complete configuration and implementation of a small branch of-

Duration 5 days Price 20.500 SEK

office network under supervision. If you are new to networking, need a good understanding for management or sales responsibilities, or are starting along the path to achieve CCNA certification, this is the right course for you. **Prerequisite:** The Student need to be familiar with a Windows based computer.

Interconnecting Cisco Network Devices Part 2 (ICND2)

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small to medium-size branch office Enterprise network, including configuring several switches and routers, connecting to a WAN and implementing network security. **Prerequisite:** We strongly recommend that the Student start with ICND1.

Duration 5 days Price 21.900 SEK



Interconnecting Cisco Network Devices: Accelerated (CCNAX)

This is a 45-hour instructor-led course that provides Students with the knowledge and skills necessary to install, operate, and troubleshoot a small to medium-sized network, including connecting to a WAN and implementing network security. The CCNAX course will

Duration 5 days Price 29.900 SEK

provide Students with the skills necessary to pass the CCNA certification exams. **Prerequisite:** The Student should have the following skills before attending: basic computer literacy, basic Microsoft Windows navigation skills, basic Internet usage skills.

Implementing Cisco IP Routing (ROUTE)

This is a five-day course designed to help learners prepare for Cisco CCNP certification. The ROUTE course is a component of the CCNP curriculum. This course is designed to provide professionals of medium-to-large network sites with information on the use of advanced routing in implementing scalability for Cisco routers that are connected to LANs and WANs. The goal is to train professionals

Duration 5 days Price 25.900 SEK

to dramatically increase the number of routers and sites using these techniques instead of redesigning the network when additional sites or wiring configurations are added. The training reinforces the instruction by providing learners with hands-on labs to ensure they thoroughly understand how to implement advanced routing within their networks. **Prerequisite:** The Student should have CCNA or equivalent knowledge.

Implementing Cisco IP Switched Networks (SWITCH)

This is a five-day instructor-led training course, designed to help Students prepare to plan, configure, and verify the implementation of complex enterprise switching solutions for campus environments using the Cisco Enterprise Campus Architecture. These skills are validated in the Cisco CCNP Routing and Switching certification, a professional-level certification specializing in the routing and switch-

Duration 5 days Price 25.900 SEK

ing field. This course is a component of the Cisco CCNP Routing and Switching curriculum. This course is designed to give Students a firm understanding of how to manage switches in an enterprise campus environment. This class reinforces the instruction by providing Students with hands-on labs. **Prerequisite:** The Student should have a CCNA or equivalent knowledge.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

Om du hellre vill prata med någon kan du ringa oss på 08-410 246 80.

Vill du fråga något och söker oss efter kontorstid eller tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)

Duration 5 days Price 25.900 SEK

This course designed to get the skills and knowledge needed to maintain their network and to diagnose and resolve network problems quickly and effectively. It also assists the network professional in preparing for Cisco CCNP certification. The TSHOOT course is a component of the CCNP curriculum. It will teach professionals that work in complex network environments the necessary skills to maintain their networks and to diagnose and resolve network problems quickly and effectively. It will also provide information about troubleshooting and maintaining particular technologies, as well as procedural and organizational aspects of the troubleshooting and maintenance process. A large part of the training will consist of practicing these skills



and reinforcing the concepts by putting them to use in a controlled environment. **Prerequisite:** The Student should have a CCNA or equivalent and the knowledge and skills from ROUTE and SWITCH.

Cisco Professionals Troubleshooting (CPT)

Duration 5 days Price 25.900 SEK

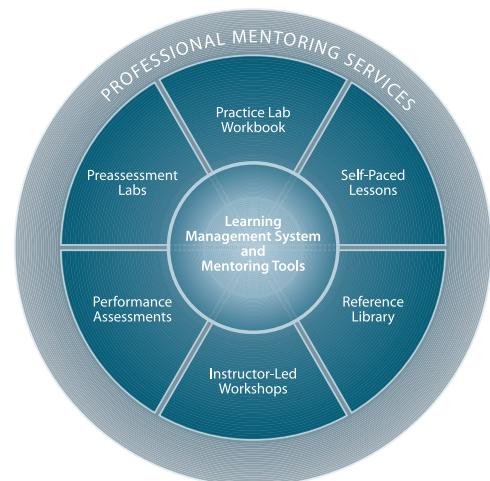
Participants will be imparted the required know-how for successful troubleshooting in complex multiprotocol environments with Cisco routers and switches. Theoretical knowledge is deepened in a hands-on manner in a lab environment with real equipment. Based

on typical fault scenarios the participants learn how to systematically diagnose and remove upcoming network problems at the different OSI layers. **Prerequisite:** The Student should have a CCNA or equivalent and the knowledge and skills from ROUTE and SWITCH.

Cisco CCIE 360° Learning Program

The Cisco CCIE 360 Learning Program for Routing & Switching is intended to accelerate the skills and competencies of networking professionals, who have at least three years of experience, to an expert level of expertise. The program offers multiple learning products and services intended to be blended together to provide a customized learning program to prepare for the CCIE R&S lab exam. Components can be matched to each Student's skill level, learning preference, and resources for maximum flexibility.

The Cisco 360 Learning Program also includes two hands-on instructor-led classes, Cisco Internetwork Expert Routing & Switching Part 1 & 2.



Cisco Internetwork Expert Routing & Switching 1 (CIERS1)

Duration 5 days Price 30.900 SEK

The following topics are covered in this workshop: Frame-Relay, Cisco Catalyst 3550/3560 Essentials, IGP's, Redistribution, BGP, IP Multicast, IPv6, Router and Cisco Catalyst 3560 QoS. The workshop also includes two graded assessment labs. The first graded assessment lab is performed on the first day of class and the

second graded assessment lab is performed on the last day of class. **Prerequisite:** It is highly recommended that Students view the following VOD sessions prior to attending CIERS1: The entire Link-Layer series, Blocks 1 and 3 of the Frame-Relay series, The entire IGP series, The entire BGP series.

Cisco Internetwork Expert Routing & Switching 2 (CIERS2)

Duration 5 days Price 30.900 SEK

At the end of this workshop, Students will have established a clear trend of performance with full-length CCIE level labs. Students will also have established a consistent and proven strategy and an end-to-end problem solving approach for any full-length CCIE lab. For

post-classroom activities, Students will be ready to perform a series of self-paced practice labs as well as additional graded assessments at a high pace. **Prerequisite:** Students should attend CIERS1 and perform at least four assesment labs and five to ten self-paced practise labs.

CISCO CATALYST 6500 WORKSHOPS

Implementing Cisco Catalyst 6500 Series Switches (RSCAT6K)

Duration 3 days Price 32.500 SEK

The course is designed for systems and field engineers, consulting systems engineers, technical solutions architects and Cisco integrators and partners who install and implement the Cisco Catalyst 6500 Series Switches. The course covers the key components and

procedures needed to install, configure, manage, and troubleshoot the Cisco Catalyst 6500 Series Switches in the network environment. **Prerequisite:** The Student should have a CCNA or equivalent.

Virtual Switching System VSS 1440/4T (VSS)

Duration 2 days Price 14.900 SEK

The course is a deep-dive into Cisco's Virtual Switching System. The Cisco Catalyst 6500 Virtual Switching System (VSS) 1440 takes the flagship Catalyst 6500 platform to the next level with network system virtualization. This new 2-day class describes the functionality of the

Virtual Switching System VSS on the new Catalyst 6500 Switch. The course focuses on the configuration, the management and troubleshooting of the VSS system and offers various hands-on lab exercises. **Prerequisite:** The Student should have a CCNP or equivalent.

Cat. 6500 and Cisco 7600 Series Routers Firewall Services Module Deployment (FWSMD) **Duration 5 days Price 30.900 SEK**

In this course the students will learn how to configure and initialize the Cisco ASA Firewall Services Module (FWSM). Other topics include IP Routing, Cisco Modular Policy Framework, Cisco Adaptive Security Device Manager, Authentication, Authorization & Accounting and

the Cisco Security Manager (CSM). **Prerequisite:** The Student should have a CCNA or equivalent as well as experience of configuring Cisco IOS Software, basic knowledge of Windows Operating systems and familiarity with Network and Security Concepts.

CISCO NETWORK MANAGEMENT

Implementing CiscoWorks LMS (CWLMS)

The course outline is as follows: Describing Network Management Fundamentals, Introducing CiscoWorks, Jump-Starting CiscoWorks, Implementing Asset Management, Managing Network Connections, Managing Device Configurations, Managing Network Performance,

Duration 5 days **Price 28.900 SEK**

Managing Faults in the Network, and Performing System Administration. **Prerequisite:** The Student should have knowledge of basic Cisco IOS commands and Cisco Catalyst OS commands. Basic knowledge of TCP/IP, Microsoft Windows, Internet and e-mail usage skills.

Cisco Prime Infrastructure 2.0 Workshop (PRIME)

Upon completion of this workshop the student should be able to: Describe the Prime Infrastructure Components (Lifecycle and Assurance); Use the components following the Cisco Lifecycle Model; Discover some of the features of Cisco Prime Infrastructure 2.0. This is

Duration 3 days **Price 19.900 SEK**

achieved by the labs where the lab guide addresses lifecycle management and assurance features. Manage wired and wireless environments but with a stronger focus on the wired part. **Prerequisite:** The Student should have a CCNA Wireless or equivalent.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

Om du hellre vill prata med någon kan du ringa oss på **08-410 246 80.**

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FAST LANE DATAKOM

Networking & TCP/IP Fundamentals (NWF)

This course was developed by Fast Lane and is based on years of experience. It is tailored to network beginners interested in the challenging and exciting world of network technologies. Course topics include essential technologies, structures, functions, and data

Duration 3 days **Price 13.900 SEK**

transmission methods in modern LANs and WANs. Hands-on labs offer participants the opportunity to observe network behavior with a protocol analyzer. **Prerequisite:** None.

Troubleshooting TCP/IP Fundamentals (TTCP)

In this course participants learn to identify, correct, and avoid problems in a TCP/IP network. Participants will use a protocol analyzer. Among the topics discussed are: TCP/IP Troubleshooting Overview,

Duration 2 days **Price 10.900 SEK**

Monitoring, Troubleshooting-Tools, Basic Protocol Analysis, and Troubleshooting the different OSI Layers. **Prerequisite:** The Student should have system attended NWF.

FAST LANE NÄTVERKSANALYS MED WIRESHARK

Packet Analysis Power Workshop (PAPW)

Participants will receive a comprehensive introduction into the features, functions and the usage of the Wireshark Analyzer and will learn methods and techniques about monitoring and analysis of their networks from the packet level. This course will also focus on the detailed analysis and troubleshooting of typical network protocols and applications with specific focus on switched Ethernet, TCP/IP networks and TCP/IP based applications. **Prerequisite:** The Student should have attended NWF.

Duration 5 days Price 24.900 SEK



Analysing MS-Windows Networking (AWN)

Participants will gain knowledge about features and analysis of the key processes and network protocols of Microsoft Windows networks running Active Directory Services from a packet level perspective.

Duration 3 days Price 15.900 SEK

With the help of the Wireshark analyzer typical network traffic is analyzed and potential problems are discussed. **Prerequisite:** The Student should have attended NWF and PAPW.

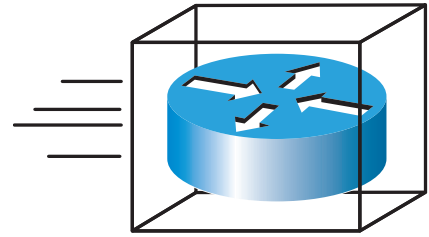
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CISCO NETWORK DESIGN

Den snabba utveckling inom data och telekommunikation ställer stora krav på flexibilitet. Ciscos designkurser ger dig verktyg och metoder för att planera och strukturera framtidssäkra och skalbara nätverk både som arkitekt i stora företag och som PreSale hos en systemintegrator.



Designing for Cisco Internetwork Solutions (DESGN)

The course v 2.0 is a new version. In addition to general approaches and technologies for network design, it promotes Cisco solutions in designing and implementing scalable internetworks. The outline includes; Applying a Methodology to Network Design, Structuring and Modularizing the Network, Designing Basic Campus and Data Center Networks, Designing Remote Connectivity, Designing IP Addressing and Selecting Routing Protocols, Evaluating Security Solutions for the Network, Identifying Voice Networking Considerations, Identifying Wireless Networking Considerations, and Implementing and Operating the Network Design. **Prerequisite:** The Student should have CCNA certification, practical experience with deploying and Cisco operating networks and attended BCMSN or SWITCH.

Duration 5 days Price 20.900 SEK



Designing Cisco Network Service Architectures (ARCH)

This course is adding to the DESGN v2.0 course. The Students will learn additional aspects of modular campus and edge network design, including high availability, security, quality of service (QoS), network management, data center, and IP multicast. In addition, the Students will be able to design solutions for the network that are strategic to small, medium, and large enterprises, including virtual private networking, wireless, and IP telephony. The course covers issues and considerations for fundamental infrastructure services, including

Duration 5 days Price 20.900 SEK

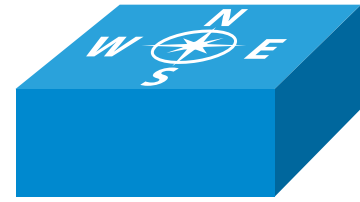
security, network management, QoS, high availability, and bandwidth use optimization through IP multicasting, and also design models for network solutions such as voice networking and application networking. The course focuses on design concepts based on the new Cisco SONA Architecture, emphasizing that Cisco delivers integrated and embedded services. **Prerequisite:** The Student should have attended DESGN. We also recommend that the Student attend has a CCNP Routing & Switching and have attended CVOICE and BGP.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

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Trådlös uppkoppling är en mänsklig rättighet. Hemma, på bussen på jobbet. Kvaliten och säkerheten skall vara lika hög som på trådbunden uppkoppling. Vi lär dig hur man gör.



Implementing Cisco Unified Wireless Networking Essentials (IUWNE) Duration 5 days Price 25.900 SEK

The goal of the course is to provide students with information and practice activities to prepare them to help design, install, configure, monitor and conduct basic troubleshooting tasks of a Cisco WLAN in SMB and Enterprise installations. The course teaches: Wireless Fun-

damentals, Basic WLAN Installation, Wireless Clients, WLAN Security, WCS Administration, and WLAN Maintenance and Troubleshooting. **Prerequisite:** The Student should have a CCNA certification and have basic knowledge of SONA, IEEE, FCC, ETSI, and WIFI alliance.

Conducting Cisco Unified Wireless Site Survey (CUWSS) Duration 5 days Price 25.900 SEK

This course is designed to help students prepare for the CCNP Wireless certification, a professional-level certification specializing in the wireless field. The goal of the course is to provide students with information and practice activities to prepare students to technically

plan and conduct a wireless site survey. The student should be able to design the RF network and conduct a post installation assessment to ensure compliancy. **Prerequisite:** The Student should have a CCNA certification and have attended IUWNE.

Implementing Advanced Cisco Unified Wireless Security (IAUWS) Duration 5 days Price 25.900 SEK

This course is designed to help students prepare for the CCNP Wireless certification, a professional-level certification specializing in the wireless field. The goal of the course is to provide network professional with information to prepare them to secure the wireless network from security threats via appropriate security policies and best practices, as well as ensure the proper implementation of security standards and proper configuration of security components. The IAUWS reinforces the instruction by providing students with hand-on



labs to ensure students thoroughly understand how to secure a network. **Prerequisite:** The Student should have a CCNA certification and have attended IUWNE.

Implementing Cisco Unified Wireless Voice Networks (IUWVN) Duration 5 days Price 25.900 SEK

This course is designed to give students a firm understanding of how to integrate VoWLAN services into the WLAN and be able to implement VoWLAN, QoS, and high-bandwidth applications into the

wireless network. The IUWVN training class reinforces the instruction by providing students with hands-on labs. **Prerequisite:** The Student should have a CCNA certification and have attended IUWNE.

Implementing Cisco Unified Wireless Mobility Services (IUWMS) Duration 5 days Price 25.900 SEK

This course is designed to help students prepare for the CCNP Wireless certification, a professional level certification specializing in the wireless field. The IUWMS course is designed to give students a firm understanding of how to integrate mobility services into the network; tune and troubleshoot the WLAN and implement indoor enterprise

mesh networks. The IUWMS reinforces the instruction by providing students with hand-on labs to ensure students thoroughly understand how to implement mobility services in the wireless network. **Prerequisite:** The Student should have a CCNA certification and have attended IUWNE.

CCNP Wireless Bootcamp (CCNPWBC) Duration 15 days Price 79.900 SEK

This intensive high-pace bootcamp comprises Conducting Cisco Unified Wireless Site Survey (CUWSS), Implementing Advanced Cisco Unified Wireless Security (IAUWS), Implementing Cisco Unified Wire-

less Voice Networks (IUWVN), and Implementing Cisco Unified Wireless Mobility Services (IUWMS). **Prerequisite:** The Student should have a CCNA Wireless certification.

CISCO WIRELESS / MOBILITY

Cisco Unified Wireless Networking (CUWN)

Duration 4 days Price 25.900 SEK

The course is based on Lightweight access points, Controllers and the Advanced Feature Set. This course enables a network administrator to deploy a WLAN Enterprise solution through the identification and successful implementation of site-appropriate hardware and software features in a Cisco Unified Wireless Network. **Prerequisite:** The Student should have CCNA certification, knowledge of basic networking prin-

ciples, TCP/IP, bridging, routing protocol, and VLAN operation. Basic Microsoft Windows and Internet Browser navigation skills.



Managing Cisco Wireless LANs (WMNGI)

Duration 3 days Price 20.900 SEK

This course prepares professionals to use the Cisco Unified Wireless Network (CUWN) network management products to configure, administer, manage, troubleshoot, and optimize the network.

Prerequisite: The Student should have attended CUWN and knowledge of basic networking principles, basic knowledge about RF, general network management and Cisco Lifecycle Services.

Cisco CCIE Wireless Written Power Workshop (CCIEWW)

Duration 5 days Price 25.900 SEK

This is a five-day course focusing on using Cisco Unified Wireless solution. This intensive bootcamp is designed to give students a firm knowledge of the theoretical background needed to successfully pass

the CCIE Wireless Written exam. **Prerequisite:** The Student should have attended IUWVN, IUWMS, CUWSS and IAUWS or have the equivalent knowledge.

Cisco CCIE Wireless v2.0 Lab Power Workshop (CCIEWL)

Duration 5 days Price 30.900 SEK

This five-day course focuses on using Cisco Unified Wireless solution. This intensive bootcamp is designed to give students a firm knowledge and lab training practice needed to successfully pass the CCIE Wireless lab exam. This class is heavily focused on lab training and practice. Each student works on an independent rack offering all the

features that may be to be configured in the real lab exam. The course is 90% practice based, offering summaries of the main points of the technology to master, with extended exercises and lab scenarios to work skills and speed. **Prerequisite:** The Student should have attended IUWVN, IUWMS, CUWSS and IAUWS or have the equivalent knowledge.

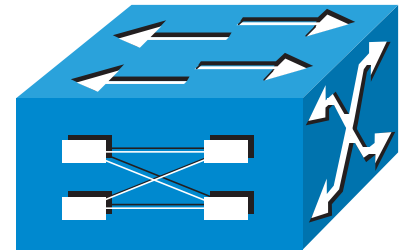
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CISCO SERVICE PROVIDER

Kraven på våra operatörer ökar konstant. Utvecklingen drivs av BYOD och dess möjligheter. Vi utbildar operatörer i samtliga världsdelar och inom alla olika teknikområden.



Building Cisco Service Provider Next-Generation Networks, Part 1 (SPNGN1)

Duration 5 days Price 23.900 SEK

This course provides network engineers and technicians with the basic knowledge and skills necessary to support a service provider network. The course provides knowledge of the major components of a network and helps learners to understand how service provider networks function. The course introduces IP Next Generation Network (IP NGN) architecture that helps service providers to build modern,

scalable and reliable networks. The course also includes classroom activities with remote labs that are useful to gain practical skills on deploying basic Cisco IOS/IOS XE and Cisco IOS XR features to operate and support service provider network. **Prerequisite:** The Student should have had exposure to networking and basic computer literacy, basic MS Windows navigation skills and basic Internet usage skills.

Building Cisco Service Provider Next-Generation Networks, Part 2 (SPNGN2)

Duration 5 days Price 23.900 SEK

This course provides network engineers and technicians with the knowledge and skills necessary to implement and support a service provider network. It focuses on using Cisco switches and Cisco routers that are connected in LANs and WANs and are typically found in the service provider network. The student will be able to configure, verify,

and troubleshoot the various Cisco networking devices. The course also includes classroom activities with remote labs deploying Cisco IOS/IOS XE and Cisco IOS XR features to operate and support service provider network. **Prerequisite:** The Student should have attended SPNGN1.

Deploying Cisco Service Provider Network Routing (SPROUTE)

Duration 5 days Price 27.900 SEK

The course provides service provider professionals with information on the use of advanced routing in implementing scalability for Cisco routers that are connected to LANs and WANs. The goal is to train professionals to dramatically increase the number of routers and sites using these techniques instead of redesigning the network when additional sites or wiring configurations are added. The training re-

inforces the instruction by providing students with hands-on labs to ensure that they thoroughly understand how to implement advanced routing within their networks. **Prerequisite:** The Student should have knowledge of SPNGN1 and SPNGN2 or equivalent knowledge as well as intermediate knowledge of Cisco IOS/IOS XE and Cisco IOS XR Software configuration.

Deploying Cisco Service Provider Advanced Network Routing (SPADVROUTE)

Duration 5 days Price 27.900 SEK

The course focuses on using Cisco routers that are typically found in the service provider network and on various technologies that are used to offer different services to customers. Upon completing this course, learners will be able to configure, verify, and troubleshoot

advanced Border Gateway Protocol (BGP) configuration, IP multicasting, and IPv6 transition mechanisms. **Prerequisite:** The Student should have knowledge of SPNGN1, SPNGN2, SPROUTE and ICND1 or equivalent knowledge.

Impl. Cisco Service Provider Next-Generation Core Network Services (SPCORE)

Duration 5 days Price 27.900 SEK

The course introduces the concepts of Multiprotocol Label Switching (MPLS) and describes its implementation. It explains the MPLS Traffic Engineering (MPLS TE) services built on the MPLS technology which allows the core devices – ATM switches or existing routers in the center of the service provider core – to switch packets according to la-

bels, with minimal lookup overhead. The course also enables learners to use the technology principles of basic quality of service (QoS), and QoS with MPLS, to implement advanced features and functions. **Prerequisite:** The Student should have knowledge of SPNGN1, SPNGN2, SPROUTE and SPADVROUTE or equivalent knowledge.

Impl. Cisco Service Provider Next-Generation Edge Network Services (SPEDGE)

Duration 5 days Price 27.900 SEK

The course is designed to provide service provider professionals with information on the use of service provider VPN solutions. The goal is to train professionals to enable service provider point of presence (POP) to provide Layer 2 and Layer 3 VPNs. The instruction is

reinforced with hands-on labs to ensure that students thoroughly understand how to implement VPNs within their networks.. **Prerequisite:** The Student should have knowledge of SPROUTE, SPADVROUTE and SPCORE or equivalent knowledge.

Configuring BGP on Cisco Routers (BGP)

The course provides delegates with in-depth knowledge of BGP, the routing protocol that is one of the underlying foundations of the Internet and new-world technologies such as Multiprotocol Label Switching (MPLS). This curriculum covers the theory of BGP, configuration of BGP on Cisco IOS routers, detailed troubleshooting information and hands-on exercises that provide delegates with the

Duration 5 days Price 25.900 SEK

skills needed to configure and troubleshoot BGP networks. Different service solutions in the curriculum cover BGP network design issues and usage rules for various BGP features, preparing delegates to design and implement efficient, optimal and trouble free BGP networks. **Prerequisite:** The Student should have a CCNA certification and have attended BSCI or ROUTE.

Implementing Cisco MPLS (MPLS)

The course will enable the Student to gather information from the technology basics to advanced VPN configuration. The focus of the course is on VPN technology issues of MPLS from the Service Providers perspective and how to configure some of those features and functions in an existing routed environment. A basic introductory

Duration 5 days Price 25.900 SEK

level of some of the more updated features and functions such as Traffic Engineering, Fast Reroute and Any Transport over MPLS (AToM) are introduced on a concept level only and the MPLST course should be taken for in depth learning. **Prerequisite:** The Student should have a CCNA certification and have attended BSCI or ROUTE and BGP.

Implementing Cisco Quality of Service (QoS)

The course provides Students with in-depth knowledge of IP QoS requirements, conceptual models using Differentiated Services (DiffServ), Integrated Services (IntServ) and Best Effort (over provisioning), and the implementation of IP QoS on Cisco IOS switch and router platforms. The curriculum covers the theory of IP QoS, design issues, and configuration of various QoS mechanisms to facilitate the creation of effective administrative policies providing QoS. Case studies and lab exercises included in the course help Students to apply

Duration 5 days Price 25.900 SEK

the concepts mastered in individual modules to real-life scenarios. The course also gives Students design and usage rules for various advanced IP QoS features and the integration of IP QoS with underlying Layer 2 QoS mechanisms, allowing them to design and implement efficient, optimized, and trouble-free multi-service networks. **Prerequisite:** The Student should have knowledge of ICND2 or CCNA certification or equivalent.

Implementing Cisco Multicast (MCAST)

Implementing Cisco Multicast provides Students with in-depth knowledge of the IP multicast building blocks that make this new IP service deployable and attractive from a business perspective. Bandwidth and processing power are wasted when data is replicated and sent from a source to potential receivers multiple times. With IP

Duration 5 days Price 28.900 SEK

multicast and a sophisticated group of protocols, the information is delivered with minimal impact on bandwidth and processor load. This IP service ensures simultaneous information delivery only to the people and the machines that require the information. **Prerequisite:** The Student should have a CCNA and have attended BSCI or ROUTE.

Implementing MPLS Traffic Engineering & other Features (MPLST)

The course is recommended training for individuals seeking advanced MPLS based knowledge and skills. The course will enable learners to gather information from the technology basics to some of the more updated features and functions such as Traffic Engineering, Carrier Supporting Carrier and Any Transport over MPLS (AToM). The focus of the course is on technology issues of MPLS from the Service

Duration 5 days Price 28.900 SEK

Providers perspective and how to configure some of those features and functions in an existing routed environment. **Prerequisite:** The Student should have attended BGP, QoS and MPLS.



IPv6 Fundamentals, Design & Deployment (IP6FD)**Duration 5 days Price 28.900 SEK**

This course combines the IPVSF v1.1 and IPVSD with no overlap. IP6FD v2.0 provides baseline through advanced technical information and training on the next-generation Internet protocol, IPv6. This course prepares for transitioning to IPv6 based networks. IP6FD encompasses design considerations, security considerations, configuration principles, configuring IOS devices for IPv6 and IPv6 transition mechanisms. The course will help network engineers understand, configure, and support Cisco devices running IOS software and covers the IPv6 routing protocols such as RIPng, OSPF, BGP, and IS-IS; IPv6 transition mechanisms including tunnels, ISATAP, NAT-PT, and 6to4; and other features. The design and deployment components



present in depth coverage of IPv6 design and deployment for DNS, DHCP, integrating IPv6 in an IPv4 network, Multicast, and much more. **Prerequisite:** The Student should have knowledge of routing, switching and access product and skills as well as knowledge of routing protocols.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

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FAST LANE IPv6 FOR SERVICE PROVIDERS

Implementing IPv6 Solutions for Service Providers (IPV6SPSE)

Duration 5 days **Price 30.900 SEK**

This customized course on IPv6 addresses the knowledge and skill requirements for engineers supporting IPv6 design and implementation for Service Provider customers. The course covers the range of Cisco Products and solutions pertinent to IPv6 in a SP environment, including carrier grade NAT, global routing protocols and the Nexus

and CSR products. As this course is intended for SEs internal to Cisco, the focus is on designing and implementing the solutions, rather than administering and troubleshooting. **Prerequisite:** The Student should have a CCNA or equivalent and a firm grasp of IPv4 routing and switching.

Introduction to IPv6 for Service Providers (IPV6SPAM)

Duration 2 days **Price 13.900 SEK**

This course on IPv6 addresses the knowledge and skill requirements for Account Managers, Technical Managers and others at Cisco Learning Partners and Service Provider companies supporting the transition from IPv4 to IPv6. The course covers the range of Cisco products and

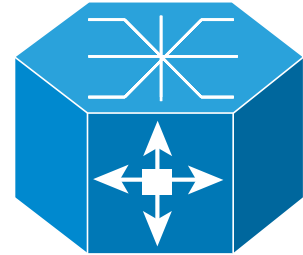
solutions pertinent to IPv6 in a SP environment, including carrier grade NAT aka Large Scale NAT, global routing protocols and the Nexus and CSR products. Migration strategies for a full range of scenarios are discussed. **Prerequisite:** The Student should have a CCNA or equivalent.

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Optical Training lär ut transmission via fiber. Våra instruktörer utbildar branschens samtliga användare både via Ciscos lab i USA (Texas) och Italien (Monza) och via våra egna remote labs. Nu gör vi även PRIME Optical.



Optical Technology Fundamentals (OTF)

The course enables the students to learn the basics of light and fiber optics and to distinguish between different fiber types. The students become familiar with building blocks of optical transmission systems and learn the linear and non-linear effects. The course includes an overview of Synchronous Optical Network / Synchronous Digital Hierarchy (SONET/SDH) standards, framing, protection, timing and ser-

Duration 3 days Price 17.900 SEK

vices, Dense Wavelength Division Multiplexing (DWDM) systems and their design. This course teaches the knowledge and skills needed to describe technology features used in designing and implementing optical networks. **Prerequisite:** The Student should have CCNA certification or equivalent knowledge. Good networking foundation and basic knowledge in physics is helpful but not a must.

Cisco ONS Time Division Multiplexing (TDM) SONET (ONS_TDM_SONET) Duration 5 days Price 27.900 SEK

This lab-intensive course introduces you to the Cisco Optical Network System (ONS) time-division multiplexing (TDM) family of transport products. You will learn about the SONET optical hierarchy and how DS-1 (1.5 Mbps) and DS-3 (45 Mbps) electrical signals are carried in the SONET optical links. The course covers Ethernet circuits at Layer 1 and Layer 2 using CE and ML cards. Included in this course is how to configure and build circuits through the ADM10G card, a TDM card in the ONS 15454 DWDM system. The course covers electrical, Ethernet, and optical protection options; linear and ring topologies; circuit building; and troubleshooting.



Prerequisite: Although there are no course prerequisites, knowledge of DS1, DS3, and SONET would be highly useful.

Cisco Prime Optical Operation & Maintenance (PRIMEOPTICAL) Duration 2 days Price 17.900 SEK

The course enables the students to use the Prime Optical network management system to manage a variety of Cisco optical devices. Working in small groups from two to three people, students complete a wide range of tasks covering many functionalities of the Prime Optical software. They start with the installation procedures of the client, followed by the management of the network elements and administration of Prime Optical software and users. The focus of the course in

on the element management, including configuration, performance monitoring, inventory, security, fault management and reporting. At the end the course is covering system administration and troubleshooting discussion. **Prerequisite:** The Student should have experience of SONET or SDH fundamentals and DWDM fundamentals. It is also recommended that students attend OTF or have equivalent knowledge.

AS - Cisco ONS 15454 MSTP Impl. DWDM from Instal. to Protection Release (MSTP FITP) Duration 5 days Price 22.900 SEK

The Cisco Systems ONS 15454 Multiservice Transport Platform (MSTP) takes full advantage of the network intelligence introduced by the ONS 15454 Multiservice Provisioning Platform (MSPP) to deliver intelligent dense wavelength-division multiplexing (DWDM) functions for metropolitan and regional networks. The Cisco ONS 15454 MSTP

solution provides a comprehensive suite of transparent wavelength service interfaces, including service interfaces. **Prerequisite:** The Student should have a basic knowledge of the DWDM theory, Fibre installation and Test and turn up of optical network nodes.

AS - Cisco ONS 156454 MSTP Release 9.3 Adv. Topics and Data over DWDM (MSTP ATD) Duration 4 days Price 19.900 SEK

This lab-intensive course introduces you to the Cisco® ONS 15454 Multiservice Transport Platform (MSTP) dense wavelength-division multiplexing (DWDM) Release 9.2 advanced features and data. This course covers topics not covered in the Installation to Protection course, including how the 40-channel mesh network is designed.

You will set up associations with time-division multiplexing (TDM) nodes and create a six-node pathswitched network using the DWDM network for connections. You will also learn the important theoretical concepts that underlie data encapsulation and how they are put to use. **Prerequisite:** The Student should have attended MSTP FITP.

CISCO SALES ENTERPRISE NETWORKS

Cisco Sales Essentials (CSE)

Duration 2 days Price 10.900 SEK

The course will provide you with an understanding of the value of Cisco products and solutions to the customer's business, a foundational understanding of the basics of each technology, and the ability to recognize key business opportunity indicators for each technology.

The course provides information on the latest Cisco technologies, including how easily they can be incorporated into your customers' current and future networking plans.

Prerequisite: None.

Borderless Network Architecture Baseline Workshop (BNABW)

Duration 1 day Price 5.950 SEK

This workshop enables Account Managers to impart to customers the Borderless Network Architecture vision and to make the connection between the customer's business needs and the value of imple-

menting an architectural solution for their enterprise networking requirements. **Prerequisite:** The Student should have a background in networking and Cisco sales.

Borderless Network Mobility for Account Managers (BNMAM)

Duration 0,5 day Price 3.700 SEK

This workshop provides a comprehensive overview of how to sell the latest Cisco Borderless Network Mobility architecture solutions. Cisco mobility products comprise state-of-the-art, high-speed resilient wireless products. They integrate to provide robust, accessible

networks capable of supporting diverse applications and devices, and maximizing the Borderless Network experience. **Prerequisite:** The Student should have some experience selling Cisco router, switch and wireless technology.

Secure Mobility Solutions for Account Managers (SMAM)

Duration 0,5 day Price 3.700 SEK

This course focuses on how to sell and articulate Cisco's Secure Mobility portfolio as part of Cisco's Borderless Network and SecureX architecture, and how to actively engage customers in discussion

about the value and impact that secure mobility can have on their business. **Prerequisite:** The Student should have some background in selling security products and solutions.

(BYOD) Smart Solution Sales for Account Managers (SBYOD)

Duration 1 day Price 5.950 SEK

This workshop immerses AMs into Cisco's BYOD Smart Solutions and validated designs. The course utilizes a balance of practical discussion, workshop exercises and lecture sessions. It will present technical

information in a non-technical manner employing everyday analogies to emphasize key sales messaging. **Prerequisite:** The Student should have experience in selling networking, wireless and security technology.

Medianet Sales Workshop (MNWS)

Duration 0,5 day Price 3.970 SEK

This course focuses on how to sell and position Cisco's Medianet as part of Cisco's Borderless Network architecture and how to actively engage customers in discussion about the value and impact

Medianet and how it ensures an uncompromised and reliable video experience. **Prerequisite:** The Student should have should have a basic understanding of Cisco Infrastructure sales.

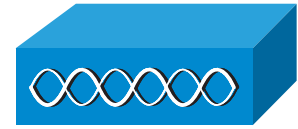
Cisco Medianet Technical Clinic (TCMN)

Duration 1 day Price 5.950 SEK

This course focuses on how to position Cisco's Medianet as a part of Cisco's Borderless Network architecture. Students learn how to demonstrate the Medianet Architecture and how it ensures an uncompromised and reliable business video experience. The course includes hands-on exercises demonstrating Medianet and Cisco

Prime Collaboration Manager. This course is updated to Medianet 2.2, and details autoprovisioning and media monitoring. **Prerequisite:** The Student should have an understanding of QoS, voice and video applications including transport protocols, as well as be able to configure Routers and switches via the Cisco IOS CLI.

Fast Lane levererar kurser från Cisco AS. De flesta hålls av våra egna instruktörer på Cisco Golds lab. Alla kurserna håller en väldigt hög teknisk nivå.



ROUTING & SWITHING

- Understanding and Configuring MEF Certified Services on the Cisco ASR 9000 (UCMCS9K)
- Cisco Device Automation using PERL Scripts (DAPS)
- Cisco Carrier Routing Systems Product Enhancements (CCRSPE)
- Cisco CRS-1 Carrier Routing System Essentials (CRS1E)
- Cisco CRS-3 Carrier Routing System Essentials (CRS3E)
- Cisco ASR 901 Essentials (A901E)
- Implementing and Maintaining Cisco Technologies Using IOS XR (IMTXR)
- Cisco Aggregation Services Router 9000 Series Essentials (ASR9KE)
- Cisco IOS XR Software Advanced IPv4 Routing for Service Providers (XIPV4R)
- Cisco IOS XR IPv6 Routing for Service Providers (XIPV6R)
- Cisco IOS XR MPLS and Tunnel Technologies for IPv4 (XMPLST4)
- Cisco XR 12000 Series Essentials (XR12K)
- Deploy, Maintain, and Troubleshoot Cisco IOS XR (DMTXR)
- Advanced Implementing and Troubleshooting MPLS VPN Networks (AMPLS)
- Cisco ASR 1000 Essentials (ASR Essentials)
- Building Core Networks with OSPF, IS-IS, BGP, and MPLS (BCN)
- Cisco XR 7600 Series Essentials (7600)

NETWORK MANAGEMENT

- Cisco Active Network Abstraction (CANA)
- Cisco Unified Operations Manager and Service Monitor (CUOM-SM)
- Cisco Unified Provisioning Manager (CUPM)
- Cisco Prime Collaboration Assurance (PCA)
- Cisco Prime Collaboration Provisioning (PCP)

METRO ETHERNET

- Deploying and Maintaining Carrier Ethernet Services (DMCE)

OPTICAL

- Cisco ONS 15454 Carrier Packet Transport Release 9.5.2 (OCTP)
- Cisco ONS Time Division Multiplexing (TDM) SONET Release 9.2 (ONS_TDM_SONET)
- Cisco ONS 15454 MSTP Implem. DWDM from Installation to Protection Release 9.6 (MSTP FITP)
- Cisco ONS 15454 MSTP Release 9.2 Advanced Topics and Data over DWDM Version 1 (DWDM)



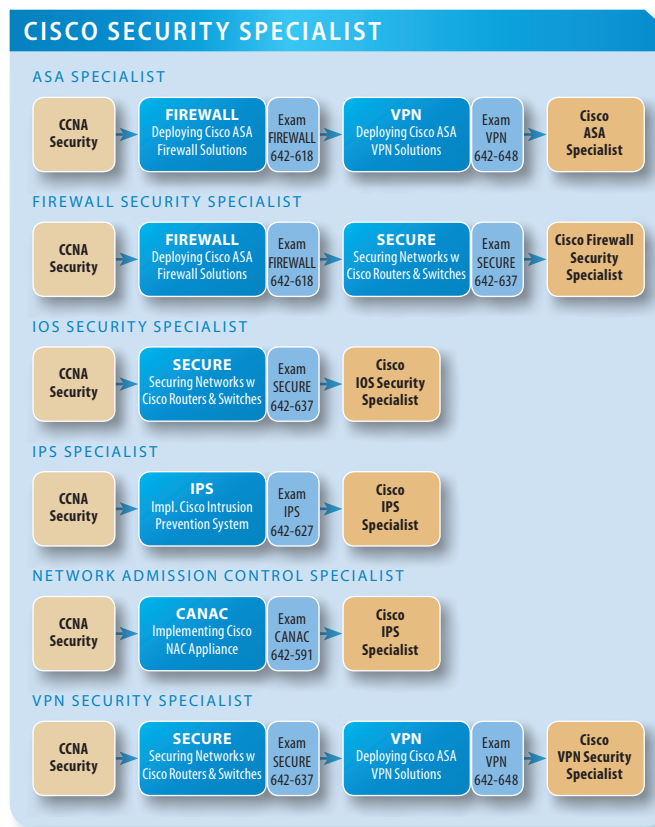
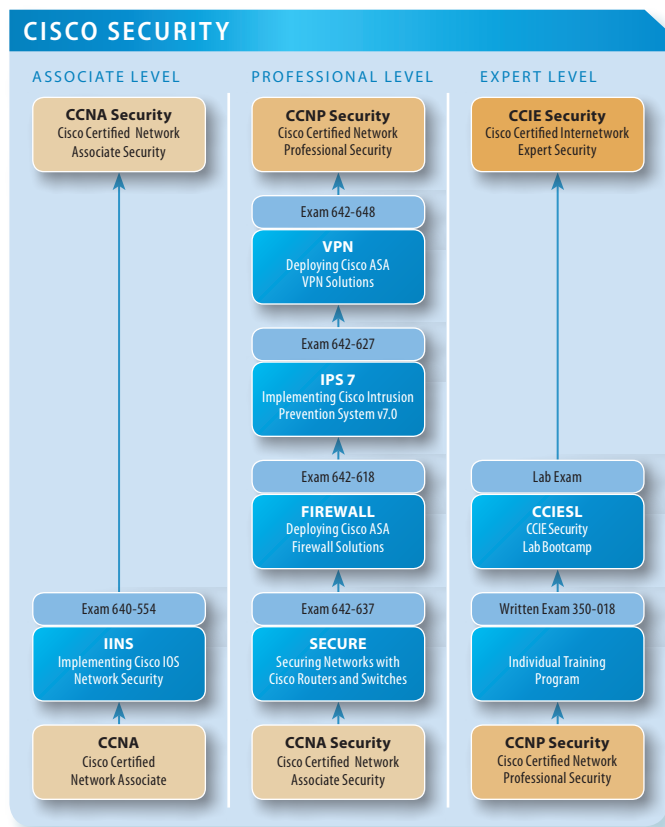
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Cisco Security certifieringar

Nu blir Security ett eget affärsområde. Kraven på säkerheten i näten ökar exponentiellt i takt med att friheten och enkelheten för användaren blir större. Säkerhetsaspekten påverkar samtliga affärsområden och är nu ett prioriterat område för Cisco i ännu högre grad än tidigare.



BYOD och Trådlös uppkoppling är en självklarhet. Det påverkar säkerhet i näten. Illlojala attacker är ett växande problem. Med hjälp av Ciscos säkerhetskoncept kan du lära dig att effektivt skydda ditt nät från angripare.



Implementing Cisco IOS Network Security 2.0 (IINS)

This five-day course focuses on the necessity of a comprehensive security policy and how it affects the posture of the network. Learners will be able to perform basic tasks to secure a small branch type office network using Cisco IOS security features available through web-

Duration 5 days Price 25.900 SEK

based GUIs (Cisco Router and Security Device Manager [SDM]) and the command-line interface (CLI) on the Cisco routers and switches. **Prerequisite:** The Student should have CCNA certification or equivalent knowledge.

Securing Networks with Cisco Routers & Switches (SECURE)

This course aims at providing network security engineers with the knowledge and skills needed to secure Cisco IOS Software router- and switch-based networks, and provide security services based on Cisco IOS Software. Successful graduates will be able to secure the network environment using existing Cisco IOS Software features, as well as install and configure components of the Cisco IOS Software, such as zone-based policy firewall, Cisco IOS Intrusion Prevention System (IPS), user-based firewall, secure tunnels using IP Security (IPsec) virtual private network (VPN) technology including public key

Duration 5 days Price 25.900 SEK

infrastructure (PKI), virtual tunnel interface/dynamic virtual tunnel interface (VTI/DVTI), Group Encrypted Transport VPN (GET VPN), Dynamic Multipoint Virtual Private Network (DMVPN), Secure Sockets Layer (SSL) VPN, and advanced switch security features. The course focuses on the implementation and troubleshooting aspects of the lifecycle services approach, adding some elements of the design phase as well. **Prerequisite:** The Student should have CCNA Security certification, completed IINS and have working knowledge of Microsoft Windows operating system.

Deploying Cisco ASA Firewall Features (FIREWALL)

This course aims at providing network security engineers with the knowledge and skills needed to implement and maintain Cisco ASA adaptive security appliance-based perimeter solutions. Successful graduates will be able to reduce risk to the IT infrastructure and applications using Cisco ASA adaptive security appliance features, and

Duration 5 days Price 25.900 SEK

provide detailed operations support for the Cisco ASA adaptive security appliance. **Prerequisite:** The Student should have CCNA Security certification, completed IINS and have working knowledge of Windows OS.



Deploying Cisco ASA VPN Solutions (VPN)

This five-day course aims at choosing, configuring, and troubleshooting the majority of Cisco ASA adaptive security appliance remote access and site-to-site VPN features to reduce risk to IT infrastructure

Duration 5 days Price 25.900 SEK

and its applications. **Prerequisite:** The Student should have CCNA Security certification, completed IINS and have working knowledge of Microsoft Windows operating system.

Implementing Cisco Intrusion Prevention System (IPS 7)

This five-day course aims at providing network security engineers with the knowledge and skills needed to deploy Cisco Intrusion Prevention System (IPS)-based security solutions. Successful graduates will be able to reduce risk to the IT infrastructure and applications

Duration 5 days Price 25.900 SEK

using Cisco IPS features, and provide detailed operations support for the Cisco IPS. **Prerequisite:** The Student should have CCNA Security certification, completed IINS and have working knowledge of Microsoft Windows operating system.

Implem. and Configuring the Cisco Identity Services Engine (SISE) Duration 5 days Price 26.500 SEK

The course provides an intensive hands-on experience in setting up, deploying and managing the Cisco Identity Services Engine (ISE) to support authentication, authorization, accounting and policy-based networking for devices and users. Students will walk through

a complete install, configure the network and devices, and use ISE as a policy engine to protect the network. **Prerequisite:** The Student should have CCNA Security certification, completed IINS and have familiarity with Microsoft Windows, MS Active Directory and 802.1X.

Implementing Cisco Secure Access Control System Version 5.4 (ACS) Duration 3 days Price 22.200 SEK

This course teaches how to provide secure access to network resources using the Cisco Secure Access Control System (ACS) 5.4, interoperating with security features in Cisco's IOS Software. The student will gain a thorough understanding of the operation of the Cisco Secure ACS to control access to network services and devices. Subjects include the principles of authentication, to restrict user access to networks, services, and devices; authorization, to restrict the functions users can perform on services and devices; and ac-counting, to track the activi-

ties of users. The RADIUS, TACACS+, Extensible Authentication Protocol (EAP), and 802.1x protocols are discussed in theory and practice as the basis of network security. Specific methods and configurations are shown that can be used in your production networks to achieve targeted and detailed restrictions. The course includes hands-on labs configuring Cisco ACS and Cisco network devices. **Prerequisite:** The Student should have CCNA Security certification, completed IINS and have working knowledge of Microsoft Windows.

Advanced IPSec (AIPSEC) Duration 5 days Price 30.900 SEK

This course focuses on providing the skills and knowledge necessary to deploy IPSec VPNs with Cisco IOS. The course covers technical basics (encryption algorithms), standards (IKE, IPSec) as well as advanced

features such as PKI-Integration, DMVPN and GET VPN. Cisco IOS Version of this course is 12.4T. **Prerequisite:** The Student should have CCNA Security certification and have working knowledge of Windows OS.

Cisco ASA Specialist Power Workshop (CASPW) Duration 5 days Price 34.900 SEK

The Cisco ASA Power Workshop comprises the following courses: Deploying Cisco ASA Firewall Features (FIREWALL) and Deploying

Cisco ASA VPN Solutions (VPN). **Prerequisite:** The Student should have CCNA Security certification or equivalent knowledge.

CCNP Security Boot Camp (CCNPSEC) Duration 15 days Price 79.900 SEK

The Security Boot Camp comprises the following courses: Securing Networks with Cisco Routers and Switches (SECURE), Deploying Cisco ASA Firewall Features (FIREWALL), Deploying Cisco ASA

VPN Solutions (VPN) **Prerequisite:** The Student should have CCNA Security certification and have working knowledge of Microsoft Windows Operating System.

Implementing Cisco NAC Appliance (CANAC) Duration 3 days Price 16.900 SEK

The NAC Appliance (Cisco Clean Access) is a "shrink-wrapped" network admission control solution that recognizes users, their devices and roles; evaluates the security posture of the endpoint and scans for vulnerabilities; and enforces policy in the network. In particular, prior to allowing users onto the network, the NAC Appliance (Cisco Clean Access) solution allows administrators to authenticate, authorize, interrogate and remediate users and their machines enforcing policy based access control on the network.



Prerequisite: The Student should have fundamental knowledge of implementing security or CCSP or Cisco Security CSQ and attended SNRS or working knowledge of digital certificates and BSCI or ROUTE or working knowledge of HSRP.

Managing Enterprise Security with Cisco Security Manager (SSECMGT) Duration 5 days Price 28.900 SEK

The course is aimed at providing network security engineers with the knowledge and skills that are needed to configure and deploy Cisco Security Manager. The course also provides an overview of network security technologies, and includes case studies that are useful for

deployment scenarios.. **Prerequisite:** The Student should have CCNP Security certification, understanding of networking and routing on a CCNP level, understanding of VPN technologies and working knowledge of Microsoft Windows OS.

CCIE Security Lab Bootcamp (CCIESL)

Duration 5 days Price 45.900 SEK

The BootCamp is designed for CCIE Security candidates. It is an intense course designed to be challenging and give you the knowledge needed to achieve the CCIE Security certification. Over long days you will learn and practice the topics from the CCIE Security blueprint. You will also have access to the instructor when you need personal men-

toring. After each lecture you will be challenged with many hours of complex lab scenarios reinforcing the material you have covered at the start of the day. There will be a full lab on the final day. **Prerequisite:** The Student should have passed the CCIE Security written exam, 3-5 years hands-on experience and a CCSP or CCNP Security Certification.

FAST LANE SÄKERHET

Implementing Cisco Secure Access Control System Version 5.4 (ACS) Duration 3 days Price 22.200 SEK

This course teaches how to provide secure access to network resources using the Cisco Secure Access Control System (ACS) 5.4, interoperating with security features in Cisco's IOS Software. The student will gain a thorough understanding of the operation of the Cisco Secure ACS to control access to network services and devices. Subjects include the principles of authentication, to restrict user access to networks, services, and devices; authorization, to restrict the functions users can perform on services and devices; and accounting, to track the activi-

ties of users. The RADIUS, TACACS+, Extensible Authentication Protocol (EAP), and 802.1x protocols are discussed in theory and practice as the basis of network security. Specific methods and configurations are shown that can be used in your production networks to achieve targeted and detailed restrictions. The course includes hands-on labs configuring Cisco ACS and Cisco network devices. **Prerequisite:** The Student should have CCNA Security certification, completed IINS and have working knowledge of Microsoft Windows.

ANTI-HACKING Workshop (HACK)

Duration 5 days Price 20.900 SEK

LIVE hacking, attack techniques, and countermeasures: Learn all about hacker's approaches and techniques! This security training shows you hackers operate. With the experience gained in many hands-on exercises, you will be able to recognize and repel attacks, redress security vulnerabilities, and reduce security risks. The par-

ticulars of the given productive environment are taken into account. **Prerequisite:** The Student should have basic Windows/Linux system user and administrator skills and a fundamental understanding of the individual communication protocols (TCP/IP), SQL programming skills are beneficial.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

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CISCO IRONPORT SECURITY

Securing Email with Cisco Email Security Appliance (SESA)

Duration 3 days Price 21.900 SEK

Students learn to use Cisco Email Security Appliances (ESA's) to manage and troubleshoot email in their networks. Attendees receive in-depth instruction on popular features, emphasizing topics listed below, learn advanced Internet email concepts and receive an overview of how to customize configurations. SESA also teaches advanced configuration and operation of the Cisco ESA (Formerly Cisco IronPort

Email Security Appliance). Extensive lab exercises provide critical hands-on experience with advanced features of the ESA. **Prerequisite:** The Student should have moderate knowledge of TCP/IP fundamentals, including IP addressing, static IP routing and DNS. Furthermore the Student should have experience with Internet-based messaging, including SMTP and MIME and familiarity with CLI and GUI.

Securing Email with Cisco Email Security Appliance (Partner Training) (PASESA)

Duration 2 day Price 14.500 SEK

The course provides channel partners with the knowledge required to successfully sell, position, evaluate, install, configure, and administer the IronPort Email Security Appliance (ESA). Attendees will gain enough knowledge and hands-on practice to enable them prepare to conduct evaluations and close deals, install and configure the appliance, use customer support and channel portal resources. This course also introduces participants to the features and functionalities of the

Web Security Appliance. The course includes demos and hands-on exercises. **Prerequisite:** The Student should have moderate knowledge of TCP/IP fundamentals, including IP addressing, static IP routing and DNS. Furthermore the Student should have experience with Internet-based messaging, including SMTP and MIME and familiarity with CLI and GUI. A prior experience with IronPort email security appliance is a plus.

Securing the Web with Cisco Web Security Appliance (SWSA)

Duration 2 days Price 15.900 SEK

The course has hands-on labs, demos and presentations to help students learn technical aspects of the S-Series Web Security Appliances. This comprehensive course covers how to install, configure, operate and maintain the S-Series. Attendees receive in-depth instruction on the most commonly used product features. Extensive lab exercises provide attendees with critical hands-on product experience. At the end of the course attendees will be able to install, operate and maintain the S-Series appliances. **Prerequisite:** The Student should have a good understanding of IP routing, Network Address Translation, CIDR addresses, DNS and TCP/IP services such as SSH, FTP, NTP



and SNMP as well as basic experience using CLI and GUI to configure network devices.

Securing the Web with Cisco Web Security Appliance (Partner Training) (PASWSA)

Duration 2 day Price 15.900 SEK

This comprehensive training course covers how to install, configure, operate and maintain the Cisco IronPort WSA Web Security Appliances or WSA. The course also covers how to configure and deploy the Cisco ScanSafe Web Security solution. The course consists of pre-

sentations and hands-on labs. **Prerequisite:** The Student should have basic knowledge of IP networking, high level understanding of web proxy servers and high level understanding of web security concepts and technologies.

Implementing Cisco AnyConnect Secure Mobility Solution (SIASM)

Duration 2 days Price 12.500 SEK

The course is a two-day instructor-led class that provides web security for the borderless network. This solution brings together Cisco SSL VPN technology and Cisco Content Security (formerly Cisco IronPort Content Security). The comprehensive course covers how to install, configure and administer ACSM. It consists of hands-on labs and pre-

sentations. After successful completion of the course, the participant will be able to describe, configure, administer, and / or troubleshoot the solution. **Prerequisite:** The Student should have Cisco Advanced SSL VPN Administration or equivalent knowledge. AnyConnect and Secure Mobility e-learning are strongly recommended.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

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CISCO SALES SECURITY

Cisco Sales Essentials (CSE)

Duration 2 days Price 10.900 SEK

The course will provide you with an understanding of the value of Cisco products and solutions to the customer's business, a foundational understanding of the basics of each technology, and the ability to recognize key business opportunity indicators for each technology.

The course provides information on the latest Cisco technologies, including how easily they can be incorporated into your customers' current and future networking plans.

Prerequisite: None.

Secure Mobility Solutions for Account Managers (SMAM)

Duration 0,5 day Price 3.700 SEK

This course focuses on how to sell and articulate Cisco's Secure Mobility portfolio as part of Cisco's Borderless Network and SecureX architecture, and how to actively engage customers in discussion

about the value and impact that secure mobility can have on their business. **Prerequisite:** The Student should have some background in selling security products and solutions.

Cisco ISE Solutions for Account Managers (ISEAM)

Duration 0,5 day Price 3.700 SEK

This workshop teaches AMs of Cisco's ISE Solutions. The Student will learn how to identify customer's mobility, identity and access issues, and how to connect Cisco's TrustSec vision with the customer's

business objectives. The course covers "Wireless Only", Base and Advanced ISE packages. **Prerequisite:** The Student should have basic understanding of Cisco Sales and familiarity with security technology.

CISCO ADVANCED SERVICES SECURITY

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SECURITY

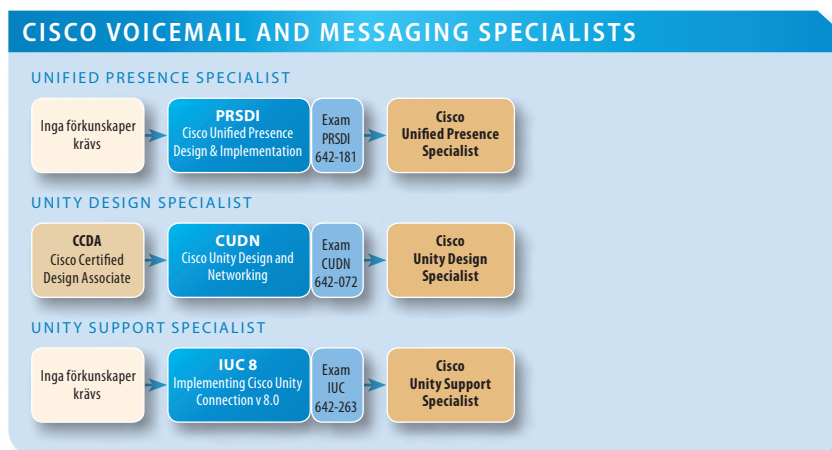
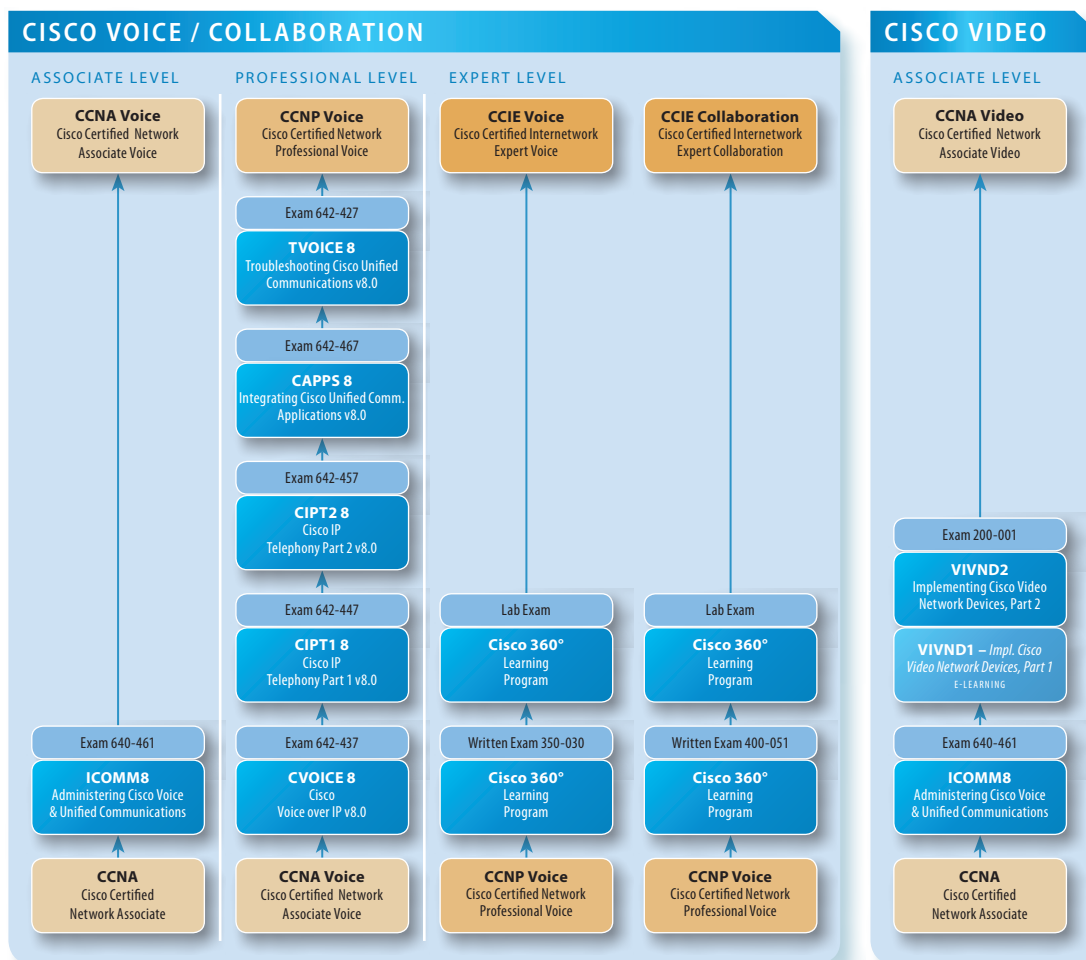
Securing Cisco Networks with Threat Detection and Analysis (SCYBER)
Cisco Secure Access Control System (CS-ACS)

Cisco Collaboration certifieringar



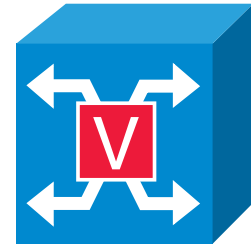
CCIE Collaboration ersätter CCIE Voice i februari 2014. Sista dagen för att ta CCIE Voice Written exam är 20 november 2013. Sista dagen för CCIE Voice Lab exam är 13 februari 2014. CCIE Collaboration Written exam startar 21 november 2013 och CCIE Collaboration Lab exam 14 februari 2014.

CCIE Collaboration blir standarden för telecom, Unified Communications och video.



CISCO UNIFIED COMMUNICATIONS

Ciscos koncept för Unified Communications är marknadens starkaste och täcker allt från enkel telefoni till Presence och mötestjänster. Vi lär dig hur du maximerar effektivitet och frihet.



Introducing Cisco Voice and Unified Communications Administration (ICOMM 8) **Duration 5 days Price 25.900 SEK**

This course introduces the architecture, components, functionalities, and features of Cisco Unified Communications solutions and describes how daily job tasks, such as system monitoring, moves, adds, and changes are performed on Cisco Unified Communications Manager, Cisco Unified Communications Manager Express, Cisco

Unity Connection, and Cisco Unified Presence. **Prerequisite:** The Student should have working knowledge of converged voice and data networks, and basic knowledge of Cisco IOS gateways, Cisco Unified Communications Manager and Cisco Unity Connection.

Implementing Cisco IOS Unified Communications Part 2 (IIUC2) **Duration 5 days Price 25.900 SEK**

This is a five-day advanced course in implementing Cisco Unified Communications Manager Express and Cisco Unity Express systems. As a follow-on course to IIUC students will learn to implement CME to support SCCP and SIP endpoints. In addition Unified Messaging Gateways (UMG), and PSTN calling will be configured. Students will configure CUE voicemail networking and VPIM. Operation and troubleshooting will include tracing and debugging of CME, CUE and UMG. **Prerequisite:** The Student should have CCNA or equivalent knowledge and attended ICOMM8.



Implementing Cisco Unified Communications Voice over IP and QoS (CVOICE 8) **Duration 5 days Price 25.900 SEK**

The course is focused on Voice Gateways, characteristics of VoIP call legs, dial plans and their implementation, basic implementation of IP phones in Cisco Unified Communications Manager Express environment and essential information about gatekeepers and Cisco Unified

Border Element. The course provides the learners with voice-related QoS mechanisms that are required in Cisco Unified Communications networks. **Prerequisite:** The Student should have CCNA or completed ICOMM 8.

Implementing Cisco Unified Communications Manager 1 (CIPT1 8) **Duration 5 days Price 25.900 SEK**

The course prepares you for implementing a Cisco Unified Communications Manager solution at a single-site environment. This course focuses primarily on Cisco UCM version 8.0, which is the call routing and signaling component for the Cisco Unified Communications solution. You will perform post-installation tasks, configure Cisco Unified Communications Manager, implement Media Gateway Control Protocol (MGCP) and H.323 gateways, and build dial plans to place on-net

and off-net phone calls. You will also implement media resources, IP Phone Services, Cisco Unified Communications Manager native presence, and Cisco Unified Mobility. **Prerequisite:** The Student should have working knowledge of converged voice and data networks, the MGCP, SIP, and H.323 protocols and their implementation on Cisco IOS gateways, and ability to configure and operate Cisco routers and switches, Cisco Unified Communications Manager in a single-site environment.

Implementing Cisco Unified Communications Manager 2 (CIPT2 8) **Duration 5 days Price 25.900 SEK**

The course prepares you for implementing Cisco Unified Communications solution in a multisite environment. It covers globalized call routing, Cisco Service Advertisement Framework (SAF) and Call Control Discovery (CCD), tail-end hop-off (TEHO), Cisco Unified Survivable Remote Site Telephony (SRST), and mobility features such as Cisco Device Mobility and Cisco Extension Mobility. You will apply a dial plan for a multisite environment including TEHO, configure survivability for remote sites during WAN failure and implement solutions to re-

duce bandwidth requirements in the IP WAN. You will also enable Call Admission Control (CAC) including Session Initiation Protocol (SIP) Preconditions and automated alternate routing (AAR). **Prerequisite:** The Student should have working knowledge of converged voice and data networks, the MGCP, SIP, and H.323 protocols and their implementation on Cisco IOS gateways, and ability to configure and operate Cisco routers and switches, Cisco Unified Communications Manager in a single-site environment.

CISCO UNIFIED COMMUNICATIONS FORTS

Troubleshooting Cisco Unified Communications (TVOICE 8)

Duration 5 days Price 25.900 SEK

The course prepares network professionals with the knowledge and skills that are required to troubleshoot Cisco Unified Communications systems and solutions in enterprise, midmarket, and commercial deployments in single-site and multisite environments. The course teaches troubleshooting methodology, triage, resources, tools, and fixes at the integrated system or solution level for Cisco Unified Com-

munications Manager. **Prerequisite:** The Student should have working knowledge of converged voice and data networks, the MGCP, SIP, and H.323 protocols and their implementation on Cisco IOS gateways, and ability to configure and operate Cisco routers and switches, Cisco Unified Communications Manager in a single-site and multi-site environment.

Integrating Cisco Unified Communications Applications (CAPPS 8)

Duration 5 days Price 25.900 SEK

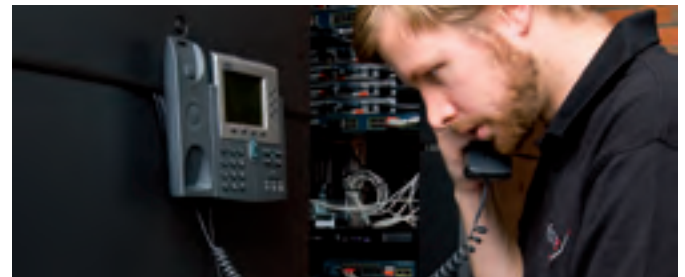
The course teaches you the integration options of Cisco Unified Presence, Cisco Unity Express, and Cisco Unity Connection. It describes voice messaging deployment scenarios, Cisco Unified Presence features, and troubleshooting mechanisms as well as Cisco Unified Presence and Cisco Unified Personal Communicator integration op-

tions with Cisco Unified Communications Manager. **Prerequisite:** The Student should have working knowledge of converged voice and data networks, basic knowledge of Cisco IOS gateways, working knowledge of Cisco Unified Communications Manager and Cisco Unity Connection and Cisco CCNA certification recommended prerequisite.

Administering Cisco Unified Communications Manager 7.0 (ACUCM)

Duration 3 days Price 19.900 SEK

The course provides system administrators and networking professionals with an understanding of the Cisco Unified Communication Manager System from a Level One support perspective. ACUCM teaches the concepts of IP telephony using the Cisco Unified Communication Manager server, including its function, features, and configuration. This is an entry-level course that begins with the basic concepts of IP telephony and very quickly moves the learner forward into an understanding of the Cisco Unified Communication Manager concepts: clustering, route plans, digit manipulation, call admission control, survivability, media resource, and Cisco Unified Communication Manager features, which are all important to supporting IP



telephony in the enterprise network. **Prerequisite:** The Student should have basic knowledge of IP and networking.

Cisco Unified Communications Architecture & Design (UCAD)

Duration 5 days Price 25.900 SEK

The five-day course addresses the breadth of technical issues surrounding the design of Voice over Data networks and explains a methodology that brings order to approaching the problems faced by planners and designers. It teaches the assessment of the current network, Cisco methodology for implementing Voice over Data networks, and how to design sustainable and appropriate implementations. The course culminates in an intensive lab exercise to apply the

concepts, recommendations and calculations to design an Enterprise Unified Communications solution with emphasis on LAN and WAN based call control systems that can be implemented and maintained cost-effectively. Given an existing data network, design a voice network solution overlay based on the use of Cisco's Unified Communications products according to the SRND and Cisco best practices. **Prerequisite:** The Student should have CCDA or equivalent knowledge.

Implementing Cisco Unified Communications Security (UCSEC)

Duration 5 days Price 24.500 SEK

The course is designed to provide students with the necessary knowledge and skills to implement security features in a Cisco Unified Communications environment. Cisco Unified Communications support several features and mechanisms to secure voice signaling and communications and to mitigate attacks against Cisco Unified Com-

munications networks. The course introduces security mechanisms and describes different implementation scenarios that increase the security level of Cisco Unified Communications networks. **Prerequisite:** The Student should have CCNA Security and a CCNP Voice or equivalent knowledge.

Administering Cisco Unity Connection (AUC 8)

The course describes Cisco Unity Connection administration features, options, and configuration settings as they apply to the administrator. This 2-day course presents Cisco Unity Connection with the focused goal of providing the administrators with the necessary skills to perform their day-to-day job functions using the Cisco Unity Connection version 8.x system. Students that require skills beyond administration where engineering, integration, and networking skills are required

Duration 2 days Price 11.500 SEK

should consider the Implementing Cisco Unity Connection (IUC) course. **Prerequisite:** The Student should have working basic understanding of fundamental terms and concepts of computer networking, including LANs, WANs, and IP switching and routing. Basic knowledge of traditional PSTN operations and technologies, including PBX and voice-mail administration tasks and basic understanding of Cisco Unified Communications Manager.

Implementing Cisco Unity Connection (IUC 8)

The course describes Cisco Unity Connection installation, networking, and advanced features, options, and configuration settings. This 3-day course presents Cisco Unity Connection with the focused goal of providing engineers and installers with the necessary skills to perform installation and setup of the Cisco Unity Connection 8.x system. **Prerequisite:** The Student should have basic understanding of funda-

Duration 3 days Price 25.900 SEK

mental terms and concepts of computer networking, including LANs, WANs, and IP switching and routing. Basic knowledge of traditional public switched telephone network (PSTN) operations and technologies, including PBX and voice-mail administration tasks and basic understanding of Cisco Unified Communications Manager or legacy PBX implementations.

Cisco Unity Design & Networking (CUDN)

This is an advanced course for engineers responsible for the design of sustainable complex Unity solutions based upon customer requirements. Upon completion of this course, you should have a higher degree of confidence that the designs you provide for your customers

Duration 3 days Price 24.900 SEK

meet the criteria of being sustainable and reducing post-deployment support requirements. **Prerequisite:** The Student should have attended CIPT1 8 and CIPT2 8. Microsoft skills in Active Directory, SQL, Exchange and Windows 2000 and Windows 2003 are also recommended.

Cisco Unified Presence Design and Implementation (PRSDI)

This course prepares you for installing and configuring a Cisco Unified Presence Release 6.0. It also includes integration options with other Cisco Unified Communication products as well as third-party presence solutions, including Microsoft Live Communication Server, Microsoft Office Communications Server, and IBM Lotus Sametime.

Duration 3 days Price 18.900 SEK

Finally it presents deployment and maintaining options. **Prerequisite:** The Student should have working knowledge of converged voice and data networks as well as working knowledge of MGCP, SIP, and H.323 and their implementation on Cisco IOS gateways and ability to configure and operate Cisco Unified Communications Manager.

Cisco Business Edition 6000 Implementation and Admin. (BE6KIA)

This course will help you gain skills and knowledge necessary for initial Cisco Business Edition 6000 v9.x sizing, design, and configuration as well as day-to-day administration and management tasks. It focuses on the initial design, configuration, administration, and essential troubleshooting approaches of Cisco Business Edition 6000. It includes hands-on labs, oriented toward configuration, verifica-

Duration 3 days Price 21.900 SEK

tion, administration, and day-to-day management and support. Lab exercises are delivered on an equipment-ready environment where students can focus on their specific areas of interests. **Prerequisite:** The Student should have a basic understanding of servers and VMware, and know the Cisco Unified Communications portfolio of available products.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

Om du hellre vill prata med någon kan du ringa oss på 08-410 246 80.

Vill du fråga något och söker oss efter kontorstid eller tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

CISCO UNIFIED CONTACT CENTER

Ett Call Center är uppbyggt runt telefoni. Marknadens ledande Call Center använder Cisco för att effektivisera sin kundbearbetning. Vi har kurserna och instruktörerna som hjälper dig att få ut maximalt av ditt Call Center.



Deploying Cisco Unified Contact Center Express (UCCX)

Duration 5 days Price 25.500 SEK

This course provides you with hands-on experience and knowledge of tasks typically performed during contact center deployment. This includes the deployment of Cisco Unified Contact Center Express and Cisco Unified IP Interactive Voice Response (IVR) (Cisco Unified CCX and Cisco Unified IP IVR) as contact center solutions. Tasks include

planning, installation, configuration, scripting, and troubleshooting. **Prerequisite:** The Student should understand Internetworking Fundamentals, Basic IP telephony concepts, Cisco Unified Communications Manager, Cisco IP Phones, Cisco IP Communicator and Contact Center Operations.

Unified Contact Center Express Advanced (UCCXA)

Duration 4 days Price 25.900 SEK

Building on the knowledge base and scripting experience learned in CRSD / UCCXD classes, this course covers advanced techniques in scripting and overall CRS functionality. During this four day class students implement such things as extending the functionality of UCCX using many of the tools that are already available in the premium version of the product. Expect to spend time exploring the Agent

Desktop Interface and the Desktop Administrator to invoke behaviors that involve Third Party applications and web based apps like: Web Callback Option and Leave a Message in Queue. There will be a major focus on Scripting and Subsystem management. **Prerequisite:** The Student should have attended CRSD / UCCXD or a very strong familiarity with CRS scripting and deployment experience.

Implementing Cisco Unified E-Mail & Web Interaction Manager Enterprise (UEIME) **Duration 5 days Price 24.900 SEK**

This course will define the tasks necessary for implementation, configuration, and support of Unified Email Interaction Manager and Unified Web Interaction Manager, the components that make up the Cisco Interaction Manager which provides the capability for agents to selectively handle E-Mail, chat, web collaboration, and voice requests using an integrated platform for task assignment.

Prerequisite: The Student should have working knowledge of Windows 2003 Server, Windows XP, Basic knowledge of SQL Server 2000, WebLogic, IIS, Unified CCE, Hosted or Unified ICM Architecture and Configuration. Furthermore working knowledge of ICM features, ICM components and architecture, ICM installation, System IPCC, Voice Script in ICM, ICM Script Editor and configuration of a Call Manager.

Customer Voice Portal Implementation (CVPI)

Duration 5 days Price 30.900 SEK

The course defines the tasks necessary for the operation, administration, management, and provisioning of Cisco Unified Customer Voice Portal (CVP) as it is installed in a comprehensive Cisco Unified Intelligent Contact Management (ICM) Enterprise environment.

Prerequisite: The Student should have attended ICDN1, CIPT1, CVOICE and CUCCPW.



Cisco CVPD Training (CVPD)

Duration 5 days Price 30.900 SEK

The course teaches you everything you need to know about developing and debugging of self-service applications using the CVP Call Studio and CVP VXML Server. You will leave class an expert on CVP Call Studio applications and return to work prepared to begin your

first project. This course strongly emphasizes hands-on application development of IVR Self-Service applications using the Cisco CVP Call Studio and VXML Server. **Prerequisite:** The Student should have attended CVPI.

CVPD Java Development for Call Studio (CVPD-JAVA)

Duration 4 days Price 25.900 SEK

This is a programming course for those using the CVP Java API to extend the functionality of CVP Call Studio. Participants will learn to write, compile, deploy and maintain custom components for CVP Call Studio and VXML Server. This course strongly emphasizes hands-on

application development of Java classes to extend Self-Service applications using the Cisco Java API. **Prerequisite:** The Student should have working knowledge of CVP Studio and intermediate experience programming with Java.

TELEPRESENCE

Implementing Cisco Video Network Devices, Part 2 (VIVND2)

Duration 5 days Price 28.900 SEK

This course is designed to provide you with the necessary knowledge and skills that are needed to implement various Cisco video end-points in converged Cisco video infrastructures. Cisco business video solutions have four major Cisco Medianet application components: Cisco Unified Communications and Collaboration, Cisco TelePresence Cisco Digital Media Suite, and Cisco Video Surveillance. This course

describes Cisco business video solutions and enables students to implement and troubleshoot Cisco Unified Communications, Cisco Collaboration and Cisco TelePresence endpoints in different Cisco business video solution architectures. **Prerequisite:** The Student should have attended ICND1 and ICND2 and have completed the VIVND1 e-learning course.

Implementing Express TelePresence Video Solutions (PAIETVS)

Duration 2 days Price 15.900 SEK

In this two-day course you will be able to install and operate a basic a simple Cisco TelePresence network. You will be able to meet these overall objective to put into practice the skills learned within the online component of the course including installing, configuring and operating a Cisco TelePresence C40 codec, configuring a Cisco Tele-

Presence Video Communication Server, configuring and operating a Cisco TelePresence MCU 4501 and configuring and operating a Cisco TelePresence Management Suite. **Prerequisite:** The Student should have completed and passed the PATVSEE exam and completed the ELT component of the PAIETVS course.

Implementing Advanced TelePresence Video Solutions Part 1 (PAIATVS1)

Duration 5 days Price 32.900 SEK

The course is designed to empower the partner with the capacity to install, configure, maintain and troubleshoot a Cisco TelePresence network so that 80% of all field activity is unassisted. Install, operate, configure, maintain, and troubleshoot Cisco TelePresence Codec C90,

Cisco TelePresence Video Communications Server (VCS), the Cisco TelePresence MCU range and the Cisco TelePresence Management Suite (TMS). **Prerequisite:** The Student should have completed and passed the PATVSEE and the PATVSEA exam.

Implementing Advanced TelePresence Video Solutions Part 2 (PAIATVS2)

Duration 5 days Price 32.900 SEK

The course is designed to empower the partner with the capacity to install, configure, maintain and troubleshoot a Cisco TelePresence network so that 80% of all field activity is unassisted. You learn to handle the MSE 8000 chassis and the corresponding blades, operate a Cisco TelePresence Server to enable mixed network calls, configure and operate a Cisco TelePresence Content Server, configure a Cisco

TelePresence Video Communication Server for sub-zones, zones, complex dial plans and security requirements and use the Cisco TelePresence Management Suite and Cisco TelePresence Communication Server to provision Movi and E20 systems. **Prerequisite:** The Student should have completed and passed the PATVSEE and the PATVSEA exam and completed PAIATVS1.

Installing TelePresence Video Immersive Solutions (PAITVIS)

Duration 2 days Price 15.900 SEK

The course is designed to empower the partner with the capacity to install, configure, maintain and troubleshoot a Cisco TelePresence Immersive solution so that 80% of all field activity is unassisted. You learn to understand, install, configure, operate and troubleshoot the Cisco TelePresence T3 System. **Prerequisite:** The Student should have completed and passed the PATVSEE and the PATVSEA exam and completed PAIATVS1 and PAIATVS2.



Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

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TELEPRESENCE **FORTS**
Physical Installation of Cisco TelePresence Systems (PITS)
Duration 2 days Price 12.500 SEK

This course is designed to help you prepare for the Cisco TelePresence Solutions Specialist certification, a professional-level certification for learners specializing in the Cisco TelePresence field. This course is a component of the Cisco TelePresence Solutions Specialist curriculum. The course is designed to give you a firm understanding of the physi-

cal installation of Cisco TelePresence units. The course reinforces the instruction by providing hands-on labs. **Prerequisite:** The Student have basic computer literacy, basic Windows navigation skills, basic Internet usage skills and basic email usage skills.

Implementing Cisco TelePresence Solutions (ITS)
Duration 4 days Price 24.900 SEK

This course is designed to help you prepare for the Cisco TelePresence Solutions Specialist certification, a professional-level certification for those specializing in the Cisco TelePresence field. The course is a component of the Cisco TelePresence Solutions Specialist curriculum. The course will provide you with a firm understanding of installation to ongoing management. The Implementing Cisco TelePresence

Solutions course reinforces the instruction by providing hands-on labs. The Student will learn how to: Describe a Cisco TelePresence solution and the technology that makes it work. Describe and configure a Cisco TelePresence system endpoint. Describe the Cisco TelePresence architecture. Describe the extended features of Cisco TelePresence. **Prerequisite:** The Student have a CCNA and attended QOS and CIPT 1.

Implementing Cisco TelePresence Solutions Immersive (ITSI)
Duration 5 days Price 30.900 SEK

The TelePresence Power Workshop is designed to help you prepare for the Cisco TelePresence Solutions Specialist certification, a professional-level certification for those specializing in the Cisco TelePresence field. The course provides a complete solution for the Cisco TelePresence Solutions Specialist curriculum. The course will provide you with a firm understanding of installation to ongoing management. The TelePresence Power Workshop reinforces the instruction by providing hands-on labs. **Prerequisite:** The Student have a CCNA and attended QOS and CIPT 1.



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CISCO UNIFIED MEETING PLACE

Designing Cisco Unified MeetingPlace Solutions (DMPS)

Duration 3 days Price 18.900 SEK

This is a three-day instructor-led technical course that reviews and enforces the system architecture of MeetingPlace and how those components integrate into an enterprise network. Use of the MeetingPlace Configuration Tool and other tools in case studies and design scenarios will be emphasized to create solutions that meet common customer MeetingPlace deployment requirements.

Prerequisite: The Student should have completed the self-paced Cisco MeetingPlace Product Overview course and have hands-on experience with MeetingPlace from having attended CMBU and CMAD.



Implementing Cisco Unified MeetingPlace (IMPS)

Duration 5 days Price 30.900 SEK

The course is a five-day instructor-led technical course providing in-depth coverage of how to install and configure the functional components of the Cisco MeetingPlace product in several deployment models in an enterprise customer network. Learners become familiar with the inter-communication of key system components, system

installation and configuration, troubleshooting, monitoring and debugging. Knowledge is reinforced by hand-on labs. **Prerequisite:** The Student should have attended CIPT1 and have working knowledge of: Converged voice and data networks, SIP, MGCP, and H.323 protocols and their implementation on Cisco IOS gateways, and Video basics.

CISCO SERVICE PROVIDER VOICE

IP Transfer Point v2.0 (ITP)

Duration 3 days Price 18.900 SEK

This course teaches how to configure, maintain, monitor and troubleshoot a signaling network based on the IP Transfer Point. The course includes lab practice time using specific Cisco IOS software commands to configure and monitor the ITP features.

Prerequisite: The Student should have attended ICND2 and have basic knowledge of introduction to telecommunications, basic telephony signalling as well as TCP/IP and IP Routing.

CISCO SALES COLLABORATION

Cisco Sales Essentials (CSE)

Duration 2 days Price 10.900 SEK

The course will provide you with an understanding of the value of Cisco products and solutions to the customer's business, a foundational understanding of the basics of each technology, and the ability to recognize key business opportunity indicators for each technology.

The course provides information on the latest Cisco technologies, including how easily they can be incorporated into your customers' current and future networking plans.

Prerequisite: None.

Collaboration Architecture Baseline Workshop (CABW)

Duration 1 day Price 5.950 SEK

This workshop is designed to enable an Account Manager to sell Cisco's Collaboration solutions and associated architectural vision and to engage customers in a conversation about Collaboration architec-

tures. The focus is on an architectural sales approach and the benefits that will deliver to the customer.

Prerequisite: None.

WebEx Social for Account Managers (WSAM)

Duration 1 day Price 5.950 SEK

This course is designed for sales professionals already familiar with Cisco Collaboration / Unified Communications who have opportunities to build Quad sales in their accounts. A major objective of this course is for you to leave this training with an action plan of how to progress your own deals. Through lecture, interactive discussions

and exercises, and study of Use Cases, you will gain the confidence to engage potential Quad customers in discussion through a greater understanding of the value Quad can provide to their business.

Prerequisite: The Student should have reasonable knowledge of Cisco Collaboration / Unified Communications.

Medianet Sales Workshop (MNWS)

Duration 0,5 day Price 3.970 SEK

This course focuses on how to sell and position Cisco's Medianet as part of Cisco's Borderless Network architecture and how to actively engage customers in discussion about the value and impact

Medianet and how it ensures an uncompromised and reliable video experience. **Prerequisite:** The Student should have should have a basic understanding of Cisco Infrastructure sales.

Cisco Medianet Technical Clinic (TCMN)

Duration 1 day Price 5.950 SEK

This course focuses on how to position Cisco's Medianet as a part of Cisco's Borderless Network architecture. Students learn how to demonstrate the Medianet Architecture and how it ensures an uncompromised and reliable business video experience. The course includes hands-on exercises demonstrating Medianet and Cisco

Prime Collaboration Manager. This course is updated to Medianet 2.2, and details autoprovisioning and media monitoring. **Prerequisite:** The Student should have an understanding of QoS, voice and video applications including transport protocols, as well as be able to configure Routers and switches via the Cisco IOS CLI.

Cisco Business Edition 6000 for Account Managers (BE6KAM)

Duration 1 day Price 3.900 SEK

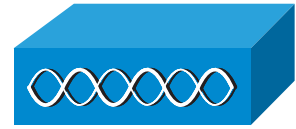
This workshop is designed to enable an Account Manager to sell Cisco's Business Edition 6000 Collaboration solution and associated architectural vision, and to engage Mid-Market customers in a conver-

sation about Collaboration architectures. The focus is on an architectural sales approach and the benefits that will deliver to the customer.

Prerequisite: None.

CISCO ADVANCED SERVICES COLLABORATION

Fast Lane levererar kurser från Cisco AS. De flesta hålls av våra egna instruktörer på Cisco Golds lab. Alla kurserna håller en väldigt hög teknisk nivå.



UNIFIED COMMUNICATIONS

Deploying Cisco Unified Communications Manager (CUCM)

UNIFIED CONTACT CENTER

Cisco IPCC Enterprise PPDIIO Workshop (PPDIIO)

Customized Reporting for ICM and IPCC (IPCAR)

Cisco IPCC Advanced Scripting (IPCAS)

TELEPRESENCE

Cisco TelePresence Support and Operations Training (TSOT)

Cisco TelePresence Installation and Configuration Training (TICT)

Cisco TelePresence Troubleshooting Training (TTST)

Installing TelePresence Video Immersive System (PAITVIS)

Cisco Unified Communications Manager 9.x for Voice and Video Deployments (UCM9VV)

Cisco TX9000 Management (TX9KM)



Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

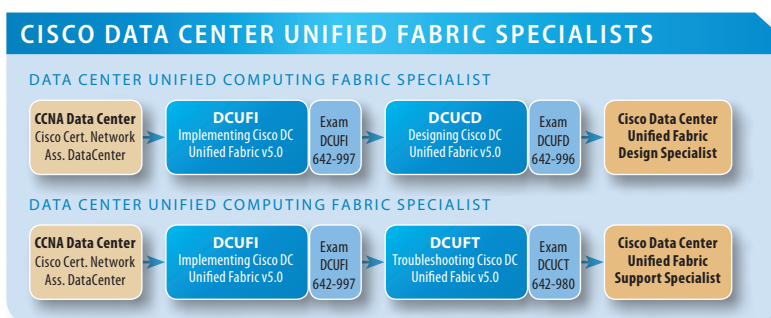
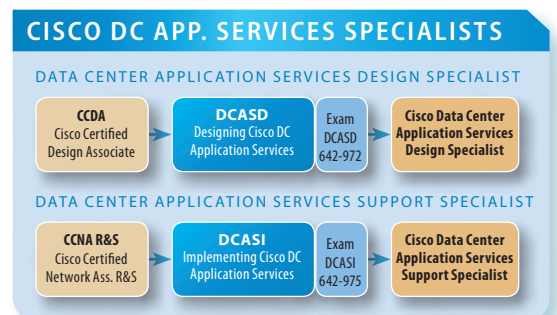
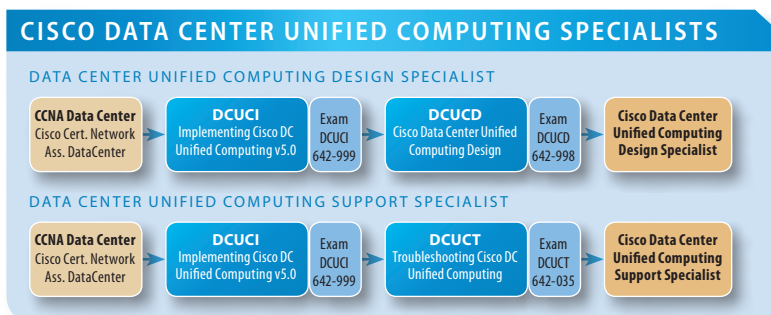
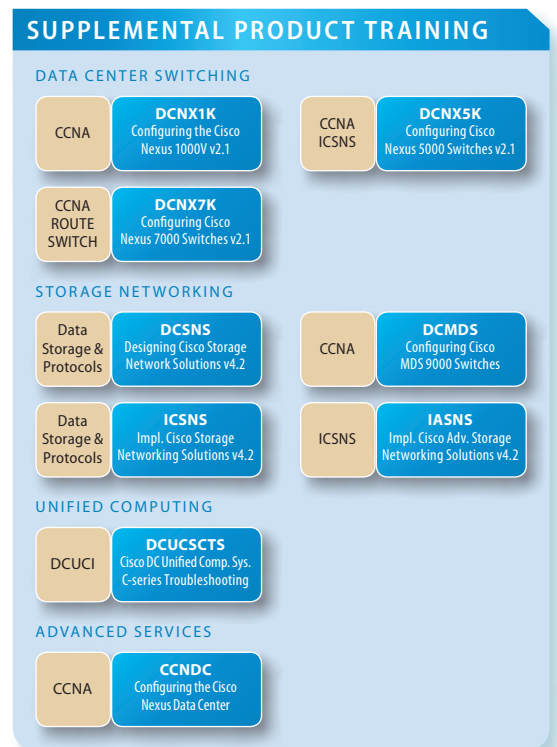
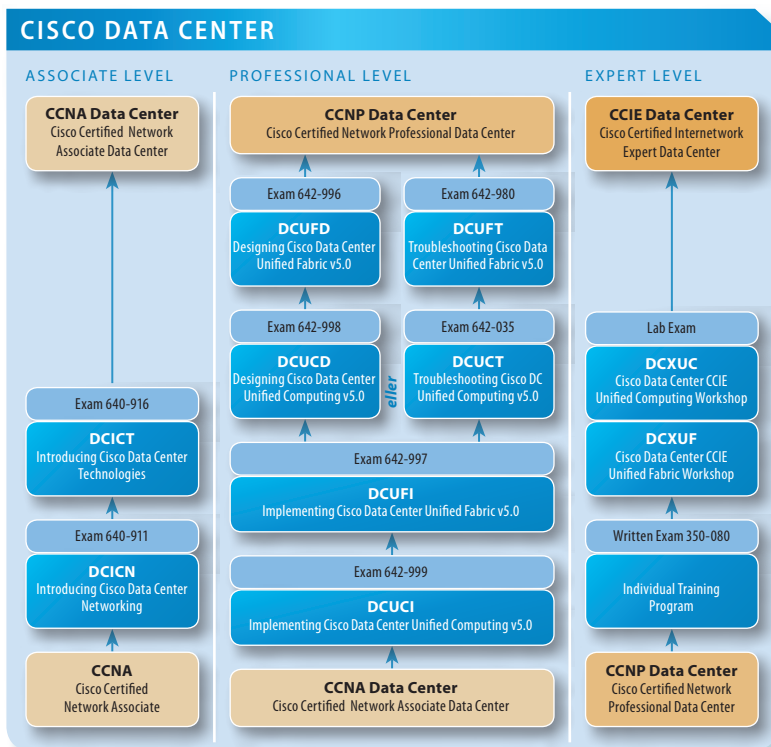
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Cisco Data Center certifieringar

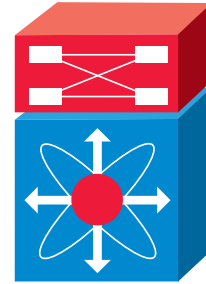


CCIE Storage Networking avslutades i juli 2013 och ersätts av CCIE Data Center. Dessutom har specialistcertifieringarna inom Data Center förändrats sedan i juni 2013. Data Center Networking Infrastructure Design Specialist och Data Center Networking Infrastructure Support Specialist är borttagna liksom Data Center Storage Networking Design Specialist och Data Center Storage Networking Support Specialist.



CISCO DATA CENTER BASICS

Cisco är teknikledande inom Data Center. Nexus, UCS, UCS Director (Clouvia) PRIME Data Center är högkompetenta produkter som är framtidssäkra och skalbara. Vi lär dig Data Center. Kombinationerna av Nexus, UCS, VMware och NetApp filers – FlexPod/ExpressPod men också andra kombinationer.



Introducing Cisco Data Center Networking (DCICN)

This course introduces you to the Cisco technologies that are deployed in the Data Center. The introductory level of content is focused on basic concepts like Ethernet, the OSI Layer Model, and TCP/IP. It then takes you through basic configuration tasks, including VLANs, network addressing, and subnet masks. Together with DCICT,

Duration 4 days **Price 21.500 SEK**

this course prepares you for the CCNA Data Center certification. **Prerequisite:** The Student should have basic computer literacy, basic knowledge of Microsoft Windows operating systems and basic Internet usage skills.

Implementing the Cisco Nexus 5000 and 2000 (DCICT)

This course expands on what you learned in DCICN, introducing you to unified computing, unified fabric, and network services. You will learn about the Cisco Nexus, MDS and UCS product families, and

Duration 5 days **Price 22.500 SEK**

how they fit into Data Center network designs. These courses prepare you for the CCNA Data Center certification. **Prerequisite:** The Student should have attended DCICN or equivalent knowledge.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

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CISCO DATA CENTER SWITCHING

Configuring the Cisco Nexus 1000V (DCNX1K)

After completion of this course the student should be able to: Describe the features of the Cisco Nexus 1000V Series Switch and Cisco Nexus 1010 Virtual Services Appliance, and explain how these products are integrated into the Cisco virtual architecture. Describe

Duration 3 days Price 20.900 SEK

how to configure the key features of the Cisco Nexus 1000V Series, and discuss how these features are used in the data center virtual infrastructure design. **Prerequisite:** The Student should have a CCNA or equivalent.

Configuring Cisco Nexus 5000 Switches (DCNX5K)

The course provides the key components and procedures that are needed to install, configure, manage, and troubleshoot Cisco Nexus 5000 Series Switches and Cisco Nexus 2000 Series Fabric Extenders

Duration 5 days Price 30.900 SEK

in the LAN, SAN, and unified fabric environments. **Prerequisite:** The Student should have a CCNA and have attended ICSNS or equivalent knowledge.

Configuring Cisco Nexus 7000 Switches (DCNX7K)

After completion of this course the student should be able to: Identify the architecture, features, and deployment models of the Cisco Nexus 7000 Series Switch. Describe hardware architecture, and perform hardware installation, and configure device administration features.

Duration 5 days Price 30.900 SEK

Describe software architecture, configure and troubleshoot Cisco Nexus 7000 Series Switch features. **Prerequisite:** The Student should have a CCNA and have attended ROUTE and SWITCH or equivalent knowledge.

Cisco Nexus Overview Workshop (CNOW)

This course is designed for those who install and implement the Cisco Nexus 7000, 5000 and 1000 Series switches and the Cisco Nexus 2000 Series Fabric Extenders. This Workshop helps you in getting an under-

Duration 1 day Price 6.900 SEK

standing on how to successfully optimize the scalability, performance and efficiency of your Data Center. **Prerequisite:** The Student should have a CCNA or equivalent knowledge.

Cisco Data Center 3.0 Architectural Overview (DCAO)

This course focuses on the Cisco Data Center Architecture and the products and services available. The courseware includes instructor-led presentations designed to build immediate awareness of the

Duration 1 day Price 6.900 SEK

features and benefits available in the Cisco Data Center. **Prerequisite:** The Student should have an understanding of Data Center LAN and SAN architectures.

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

The 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 incl. Sup720-3B/BXL, Sup32-PISA, and Sup720-10G-3C/CXL.

Duration 5 days Price 29.900 SEK

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. **Prerequisite:** The Student should have a CCNP Routing and Switching certification status or equivalent knowledge.

Fiber Channel over Ethernet Overview (FCOE)

This is a two-day Fast Lane Workshop. This Workshop provides an understanding on the FCoE technology as available today, design and cost considerations, virtualization, and future plans. Upon completing this course, the learner will understand these overall objectives: Fiber

Duration 2 days Price 15.900 SEK

Channel Network topologies, FC Frame format and Flow Control, The Rationale for FCoE, FCoE Architecture, FCoE Topology/design limitations, FCoE virtualization: VE port, and Equal Cost Multipathing. **Prerequisite:** The Student should have a CCNA or equivalent.

Implementing Cisco Data Center Unified Fabric (DCUFI)

Duration 5 days Price 29.900 SEK

After completion of this course the student should be able to:
Describe the Cisco Unified Fabric products in a Cisco Data Center network architecture. Select and configure the distinctive Cisco Nexus Series Switch features to meet the implementation requirements and expectations in the Cisco Data Center Architecture. Configure advanced features such as OTV, MPLS, LISP, security, and Quality of Service (QoS). Identify which management tools are available for the Cisco Nexus Switches and how to configure the relevant management tool to support the given design. Understand the Fibre Channel protocol, the FCoE protocol, and the Data Center Bridging (DCB)



enhancements, as well as how to configure FCoE on the Cisco Nexus 5000, 5500, 7000 and MDS Switches. **Prerequisite:** The Student should have a CCNA, good understanding of the Fibre Channel protocol and the SAN environment and have attended ICSNS or equivalent.

Troubleshooting Cisco Data Center Unified Fabric (DCUFT)

Duration 3 days Price 18.500 SEK

In this course you will learn the key tools and procedures needed to troubleshoot and resolve common Data Center issues. You will work with the Cisco Nexus 7000, 5000, and MDS Switches and the Nexus 2000 Fabric Extenders in the network and SAN environments, explor-

ing both component and composite problems and their solutions. **Prerequisite:** The Student should have a CCNA and have attended DCUFI and ICSNS as well as attendance of Nexus and MDS product courses, Fibre Channel Protocol course or equivalent knowledge.

Designing Cisco Data Center Unified Fabric (DCUFD)

Duration 5 days Price 29.900 SEK

This course is aimed at providing data center architects with the knowledge and skills needed to design scalable, reliable, and intelligent data center unified fabrics, and virtualization solutions based on the Fabric Extenders (FEXs), Fibre Channel over Ethernet (FCoE), FabricPath, and equipment and link virtualization technologies. The course describes the Cisco data center Unified Fabric solutions, and

explains how to evaluate existing data center infrastructure, determine the requirements, and design the Cisco Data Center Unified Fabric solution based on Cisco products and technologies. **Prerequisite:** The Student should have a CCNA Data Center and have attended DESGN and DCSNS as well as attendance of Nexus product family courses or equivalent knowledge.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

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CISCO UNIFIED COMPUTING

Implementing Cisco Data Center Unified Computing 4.2 (DCUCI)

Duration 5 days Price 28.900 SEK

This course covers the implementation and operation of Cisco Unified Computing System (UCS) in the data center, and is designed to serve the needs of those who implement UCS B-Series Blade Servers and Cisco UCS C-Series Rack-Mount Servers. You will be guided through

rack installation and provisioning of server hardware, operating systems, hypervisors, and applications. Much of the content is devoted to management and maintenance. **Prerequisite:** The Student should have a CCNA Data Center and attended ICSNS or equivalent.

Designing Cisco Data Center Unified Computing 4.2 (DCUCD)

Duration 4 days Price 28.900 SEK

This course enables engineers to choose and design scalable, reliable, and intelligent data center unified computing and virtualization solutions based on the Cisco Unified Computing System (UCS) product portfolio as a centerpiece integrated with contemporary virtualization solutions, operating systems, and applications. The course describes the data center unified computing and virtualization solutions based on Cisco data center unified computing product portfolio,

explains how to evaluate existing data center computing solution and determine the requirements, and design Cisco data center unified computing solution. **Prerequisite:** The Student should have a CCNA Data Center and have attended DCUFD, Nexus and MDS product family courses as well as knowledge of server and desktop virtualization and operating system administration or equivalent knowledge.

Troubleshooting Cisco Data Center Unified Computing (DCUCT)

Duration 3 days Price 18.500 SEK

This course is designed to provide knowledge and hands-on experience to properly troubleshoot Cisco UCS B-Series and C-Series servers operating in standalone and integrated modes. You will dive deep, gaining hands-on experience with proper configuration procedures,

and becoming familiar with common troubleshooting scenarios and recommended solutions. **Prerequisite:** The Student should have attended DCICT and DCUCI as well as knowledge of server virtualization and operating system administration or equivalent knowledge.

Cisco Data Center Unified Computing System C-series Troubleshooting (DCUCSCTS) Duration 2 days Price 15.900 SEK

This course is designed to prepare Cisco Channel Partners, systems engineers, and implementers with the knowledge and hands-on experience to properly install, configure, and troubleshoot UCS C-Series servers operating in standalone mode. The goal of the course is to enable the UCS Partner to troubleshoot Level 1 and 2 standalone UCS

C-Series integration issues. The student will gain hands-on experience with proper configuration procedures and will become familiar with common troubleshooting scenarios and recommended solutions. **Prerequisite:** The Student should have attended DCUCI or have equivalent knowledge.

Implementing Enhanced Secure Multi-Tenancy (IESMT)

Duration 3 days Price 23.700 SEK

This course provides a detailed understanding of how to integrate NetApp MultiStore, Cisco Unified Computing Systems (UCS), Cisco Nexus 1000v switches, and VMware vSphere to create a secure multi-tenant computing environment based on the Enhanced Secure Multi-tenancy guidelines. NetApp MultiStore serves as the storage foundation for multi-tenancy, Cisco UCS serves as the server hardware platform for VMware vSphere, and Cisco Nexus 1000v functions as a virtual intelligent switch. These individual products combine to

provide secure isolated multi-tenant computing environments with independent security models, assured quality of service for critical services and applications, highly available redundant architecture, and an administrative support model that defines access levels for tenant administrators. **Prerequisite:** The Student should have a CCNA and have attended FlexPod (FPVE) and VMware (VICM) as well as possess an solid knowledge of networking protocols and a good understanding of virtualized environments.

CISCO STORAGE NETWORKING

Implementing Cisco Storage Networking Solutions v4.2 (ICSNS)

Duration 5 days Price 29.900 SEK

This course provides learners with fundamental skills in implementing and troubleshooting Cisco storage networks. Course topics include installing and bringing up the switch, configuring Virtual SANs (VSANs), domains, interfaces, and zones, implementing PortChannels, configuring management security, and basic troubleshooting.

Students will also learn how to configure highly available FCIP tunnels and tune the performance of your FCIP links. **Prerequisite:** The Student should have basic understanding of data storage hardware components and protocols, including SCSI and Fibre Channel and network protocols

Designing Cisco Storage Networking Solutions (DCSNS)

Duration 5 days Price 29.900 SEK

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. The course outlines are; MDS 9000 Platform Overview, Designing SAN Fabrics, Consolidating

Storage in the Data Center, Securing the SAN, and Designing SAN Extension Solutions. **Prerequisite:** The Student should have basic understanding of data storage hardware components and protocols, including SCSI and Fibre Channel.

Implementing Cisco Adv. Storage Networking Solutions v4.2 (IASNS)

Duration 5 days Price 29.900 SEK

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. **Prerequisite:** The Student should have attended ICSNS.



Configuring Cisco MDS 9000 Switches (DCMDS)

Duration 5 days Price 29.900 SEK

This course provides learners with fundamental skills in configuring Cisco MDS 9000 Series switches. Course topics include setting up the switch, configuring interfaces, virtual SANs (VSANs), domains, zones, port channels, management security, and Fibre Channel over IP (FCIP)

tunnels. **Prerequisite:** The Student should have a CCNA and a basic understanding of data storage hardware components and protocols, including SCSI and Fibre Channel and a basic understanding of network protocols.

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

Om du hellre vill prata med någon kan du ringa oss på 08-410 246 80.

Vill du fråga något och söker oss efter kontorstid eller tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

CISCO FLEXPOD TRAINING

FlexPod for Account Managers (FPAM)

Duration 1 day Price 8.900 SEK

This course teaches you how to articulate to your customer why a Flex/ExpressPod solution is an essential part of any customer's cloud compute strategy to deliver the rapid delivery and lower cost benefits

of Cloud delivered IT services. **Prerequisite:** The Student should have a background in networking and solution sales or equivalent knowledge.

Architecture and Design of FlexPod Datacenter (ADFPD)

Duration 2 days Price 15.800 SEK

This intense course provides a detailed understanding of FlexPod's architectural design and infrastructure. FlexPod provides a highly scalable reference architecture with predesigned, pretested, industry validated software and hardware configurations. Developed specifically to simplify and standardize data center deployments, FlexPod

is integral to delivering Infrastructure as a Service (IaaS) and next generation customer support. **Prerequisite:** The Student should have an intermediate knowledge of one or more of the following: NetApp storage technologies, VMware vSphere, Microsoft Hyper-V or/and Cisco UCS Computing and Nexus Switching.

FlexPod Implementation (FPI)

Duration 3 days Price 23.700 SEK

This course provides you with hands-on experience installing and configuring the base infrastructure components of FlexPod. This course, will give you a detailed understanding of FlexPod's architecture, the infrastructure components and base configuration. You will gain insight into the various hardware configurations supported

by FlexPod and how those components integrate. This course will explore key FlexPod architectural components, options, and tools. **Prerequisite:** The Student should have an intermediate knowledge of: NetApp storage, VMware vSphere, Cisco UCS Computing or Nexus Switching. *This course is an upgraded consolidation of FPVE and FPVI.*

FlexPod for VMware Essentials (FPVE)

Duration 2 days Price 15.800 SEK

This course teaches you how to prepare for and deploy FlexPod in a VMware environment with an emphasis on exploiting the key tech-

nologies in the Cisco Nexus series of switches. **Prerequisite:** The Student should have some background in Cisco routing and switching.

FlexPod for VMware Design and Implementation (FPVI)

Duration 3 days Price 23.700 SEK

This course is designed for those who need to become experienced with the planning, design, and implementation of a base FlexPod for VMware infrastructure. Using design examples to reinforce objectives,

this course delivers a structured approach to implementing FlexPod for VMware. **Prerequisite:** The Student should have attended FPVE or have equivalent knowledge.

FlexPod for VMware Administration (FPVA)

Duration 3 days Price 23.700 SEK

This highly focused course provides a detailed understanding of administration tasks associated with administering FlexPod for VMware. This course focuses on post-implementation administration of NetApp MultiStore, Cisco Unified Computing Systems, Cisco Nexus 5000 switches, and VMware vSphere. This course outlines

core administrative tasks such as server and application deployment, network separation, application management, backup and disaster recovery. **Prerequisite:** The Student should have completed FPVE as well as possess a basic knowledge of Cisco UCS, NetApp Unified storage and Cisco Nexus switching.

Implementing Enhanced Secure Multi-Tenancy (IESMT)

Duration 3 days Price 23.700 SEK

This course provides a detailed understanding of how to integrate NetApp MultiStore, Cisco Unified Computing Systems (UCS), Cisco Nexus 1000v switches, and VMware vSphere to create a secure multi-tenant computing environment based on the Enhanced Secure Multi-tenancy guidelines. NetApp MultiStore serves as the storage foundation for multi-tenancy, Cisco UCS serves as the server hardware platform for VMware vSphere, and Cisco Nexus 1000v functions as a virtual intelligent switch. These individual products combine to

provide secure isolated multi-tenant computing environments with independent security models, assured quality of service for critical services and applications, highly available redundant architecture, and an administrative support model that defines access levels for tenant administrators. **Prerequisite:** The Student should have a CCNA and have attended FPVE and VMware (VICM) as well as possess a solid knowledge of networking protocols and a good understanding of virtualized environments.

FlexPod UCS Director Infrastructure Management (FPUCSDIM)

Duration 2 days Price 18.900 SEK

This workshop with hands-on labs immerses you into the operations of Cisco UCS Director Infrastructure Management 1.0 and its functional components based on FlexPod. You will get a hands-on experience setting up Cisco UCS Director infrastructure and learn how to monitor and manage physical and virtual server resources, manage storage

and manage network infrastructure. The deployment, maintenance and update capabilities that are supported by Cisco UCS Director are also covered. **Prerequisite:** The Student should have knowledge of data center operations, cloud computing concepts and cloud architecture and a basic understanding of data storage reference architectures.

CISCO APPLICATION NETWORKING

Designing Data Center Application Services (DCASD)

In this course you will learn how to deploy and configure intelligent network services using the Cisco ACE products. It covers all of the key features of the ACE products, including resources virtualisation and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features like application-layer in-

Duration 5 days Price 29.900 SEK
 spection and fixups. The focus is on enabling the student to properly position the ACE products in the network for optimising data center components and network resources. **Prerequisite:** The Student should have basic understanding of TCP/IP protocol, HTTP and SSL protocols N-tier application architecture and server load-balancing.

Implementing Data Center Application Services (DCASI)

The course will cover Cisco Data Center Application Services implementation, operations, and optimization, focusing on the Cisco ACE family of products. Design intelligent network services using the Catalyst 6500 Application Control Engine Service Module, the Cisco Application Control Engine Appliance, the Cisco Global Site Selector, and Cisco Wide Area Application Services. **Prerequisite:** The Student

Duration 5 days Price 29.900 SEK
 should have knowledge of Catalyst 6500 architecture and operations, Common web application protocols, Common file system protocols, and Traffic control and monitoring protocols.



Cisco Wide Area Application Services (CWAAS)

This course will teach learners how to design and deploy a solution using Cisco WAAS that improves application performance over the WAN while enabling infrastructure consolidation. The learner will also understand Cisco WAAS optimization technology, design considerations, network

Duration 5 days Price 29.900 SEK
 integration, and system troubleshooting aspects. **Prerequisite:** The Student should have attended ICND1 and have fundamental knowledge of Microsoft Windows networking technologies, WAN optimization and VMware server virtualization technologies.

Implementing the ACE Service Module (ACESM)

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

Duration 4 days Price 24.900 SEK
 load balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features like application-layer inspection and fixups. **Prerequisite:** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, and server load-balancing.

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

In this course you will learn how to deploy and configure intelligent network services using the Catalyst 6500 Application Control Engine (ACE). It covers all of the key features of the ACE products, including resource virtualisation and management, server load balancing, SSL termination and offload, and security features like application-layer

Duration 4 days Price 24.900 SEK
 inspection and fixups. The focus is on enabling the student to properly position the ACE products in the network for optimising data center components and network resources. **Prerequisite:** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, and server load-balancing.

Cisco Application Control Engine Appliance (ACEAP)

This course teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Appliance. It covers all of the key features of the ACE 2.0 software, including resource virtualization and management, server

Duration 4 days Price 25.900 SEK
 load balancing, SSL termination and offload, and security features like application-layer inspection and fixups. **Prerequisite:** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, and Server load-balancing.

ACE Workshop (ACEWS)

This course teaches you how to design, deploy, and optimize intelligent network services using the Cisco ACE Service Module and ACE 4710 Appliance. It covers all of the key features of the Cisco ACE.

Duration 4 days Price 24.900 SEK
Prerequisite: The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, and Server load-balancing.

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CISCO VIRTUALIZATION

VXI/VDI for Account Managers (VXAM)

This comprehensive course is intended Account Managers that need to understand the Virtual Desktop requirement and Cisco's Virtualization eXperience Infrastructure (VXI).

Duration 1 day **Price 7.200 SEK**

Prerequisite: The Student should have a background in selling network and server products and technologies.

VXI/VDI for System Engineers (VXSE)

In this advanced course you will learn about the general concepts of Desktop Virtualization as well as comprehensive details of Cisco's Virtualization eXperience Infrastructure (VXI).

Duration 2 day **Price 14.700 SEK**

Prerequisite: The Student should have a background in selling network and server products and technologies.

Implementing VXI & VDI (VXDI)

This Fast Lane exclusive course provides an understanding of the Virtual Desktop Environment (VDI) enriched by the Cisco Virtualization Experience Infrastructure (VXI). It provides you with the skills to

Duration 3 day **Price 19.000 SEK**

understand the individual components and install them.

Prerequisite: The Student should have a CCNA and have attended VMware (VICM).

Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.

Om du hellre vill prata med någon kan du ringa oss på **08-410 246 80.**

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CISCO SALES DATA CENTER & VIRTUALIZATION

Cisco Sales Essentials (CSE)

The course will provide you with an understanding of the value of Cisco products and solutions to the customer's business, a foundational understanding of the basics of each technology, and the ability to recognize key business opportunity indicators for each technology.

Duration 2 days Price 10.900 SEK

The course provides information on the latest Cisco technologies, including how easily they can be incorporated into your customers' current and future networking plans.

Prerequisite: None.

Cisco Data Center 3.0 Architectural Overview (DCAO)

This one-day class focuses on the Cisco Data Center Architecture and the products and services available. The courseware includes instructor-led presentations designed to build immediate awareness

Duration 1 day Price 6.900 SEK

of the features and benefits available in the Cisco Data Center.

Prerequisite: The Student should have an understanding of Data Center LAN and SAN architectures.

Data Center Security Sales for Account Managers (DCSWS)

This workshop provides AMs with a clear approach to positioning SecureX architecture for securing virtualized data centers. They will learn how to qualify a customer, and how to link customer business goals to security objectives. They will also learn how to connect

Duration 0,5 day Price 3.970 SEK

these business objectives to the value proposition in a holistic Cisco approach to data center security, and how to differentiate it from the competitive landscape. **Prerequisite:** The Student should have a basic understanding of Data Center technology and security terminology.

Cisco Data Center Security Sales for SEs (SDCSE)

This course focuses on providing Cisco Partner SEs with a good technical overview of the solutions that are used to Secure a public or private Data Center. They will learn to position SecureX architecture for data center security and to articulate the deep value proposition of SecureX as well as key technology components such as the ASA

Duration 1 day Price 5.950 SEK

5585-X, the ASA Services Module, the Nexus 1000V and the Cisco Virtual Security Gateway (VSG). SEs will learn about the business drivers for securing the data center, and how to connect Cisco's SecureX vision to solving business issues.

Prerequisite: None.

FlexPod for Account Managers (FPAM)

This course teaches you how to articulate to your customer why a Flex/ExpressPod solution is an essential part of any customers cloud compute strategy to deliver the rapid delivery and lower cost benefits

Duration 1 day Price 8.900 SEK

of Cloud delivered IT services. **Prerequisite:** The Student should have a background in networking and solution sales or equivalent knowledge.

VXI/VDI for Account Managers (VXAM)

This comprehensive course is intended Account Managers that need to understand the Virtual Desktop requirement and Cisco's Virtualization eXperience Infrastructure (VXI).

Duration 1 day Price 7.200 SEK

Prerequisite: The Student should have a background in selling network and server products and technologies.

VXI/VDI for System Engineers (VXSE)

In this advanced course you will learn about the general concepts of Desktop Virtualization as well as comprehensive details of Cisco's Virtualization eXperience Infrastructure (VXI).

Duration 2 day Price 14.700 SEK

Prerequisite: The Student should have a background in selling network and server products and technologies.

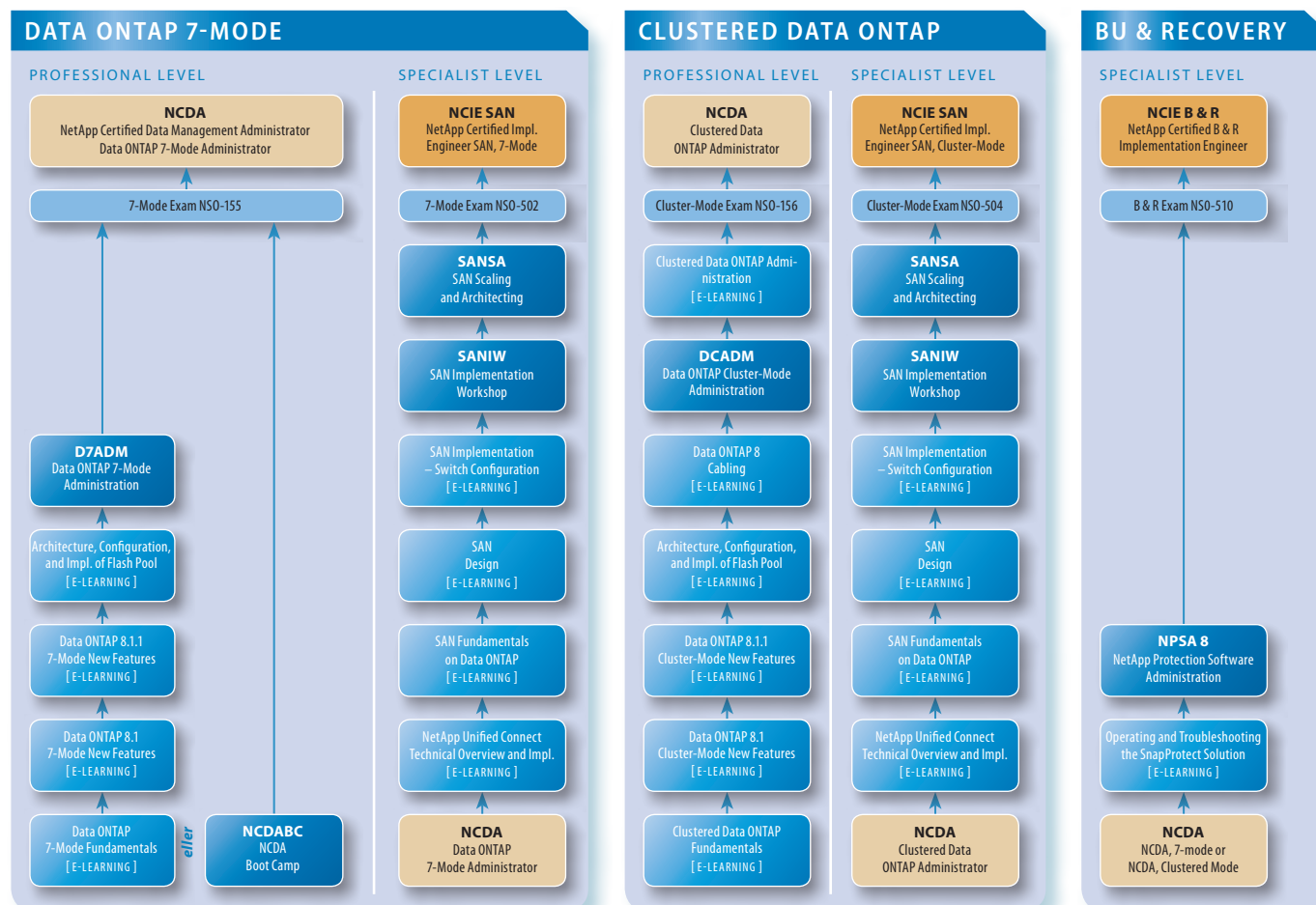
CISCO ADVANCED SERVICES DATA CENTER

DATA CENTER

- Cisco Data Center CCIE Unified Computing Workshop (DCXUC)
- Cisco Data Center CCIE Unified Fabric Workshop (DCXUF)
- Configuring Cisco Intelligent Automation for Cloud (DCCIAC)
- Configuring the Cisco Nexus Data Center (CCNDC)



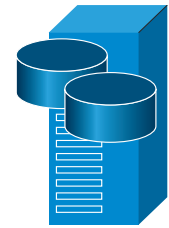
NetApps certifieringar har blivit mer efterfrågade i branschen. Det gör det intressantare att bli partner och konkurrensen om jobben ökar. Dokumentera din resa inom NetApp genom att certifiera dig. Vi hjälper dig med råd och riktigt bra kurser.



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NETAPP PLATTFORM OS

NetApp är den ledande leverantören i storagevärlden. Kostnadseffektiva lösningar med hög flexibilitet och skalbarhet gör att NetApp passar bra att kombinera med lösningar från aktörer som Cisco, VMware och Citrix. Vi lär dig hur du bygger lösningar på effektivaste sätt.



Basic NetApp Configuration and Administration (BNCA)

The course will get you started providing basic support and administrative tasks on NetApp storage systems running the Data ONTAP 8.0.1 7-Mode operating system. In this course you will learn how to perform basic administration tasks such as creating aggregates, volumes, qtrees, LUNS and managing administrative access. This course includes interactive labs where the students will perform skills taught

Duration 1 day Price 7.900 SEK

in the course. By the end of this course you will be getting started on how to apply administrative tasks on NetApp storage systems running the Data ONTAP 8.0.1 7-Mode operating system.

Prerequisite: The Student should have done Data ONTAP 8.0 7-Mode Fundamentals and Introduction to NetApp Products web-based training courses.

Data ONTAP 7-Mode Administration (D7ADM)

Learn about Data ONTAP 7G and the cutting-edge Data ONTAP 8.0.x 7-Mode by exploring basic administration of a storage system running Data ONTAP 7-Mode. By the end of the course the Student should be able to: Identify the different components that comprise a NetApp storage environment. Install and perform the setup configuration of Data ONTAP 7-Mode. Perform basic administration on a storage system. Explain and configure physical and logical storage

Duration 5 days Price 39.500 SEK

on a storage system. Identify and configure client protocols on a storage system. State virtualization techniques available in Data ONTAP. Describe Snapshot copies and space consumption in Data ONTAP. Discuss simple data backup methods available in Data ONTAP.

Prerequisite: The Student should have done Data ONTAP 8.0 7-Mode Fundamentals Web-Based training courses and a background in system administration for UNIX or Microsoft Windows.

Accelerated NCDABoot Camp Data ONTAP 8.0 7-Mode (ANCDABC87) **Duration 5 days Price 44.900 SEK**

This course is to prepare for success when taking the NCDABoot Camp Exam. Through lectures and labs, you will learn the essential features and functions of the Data ONTAP 8.0 7-Mode operating system including network-attached storage administration and storage area networks configuration. **Prerequisite:** The Student should have three years of

experience in a storage related function, such as storage administrator or field engineer and six months experience with NetApp storage solutions and have attended D7ADM.



NCDABoot Camp (NCDABC)

This 10-day boot camp will prepare you for the NetApp Certified Data Management Administrator (NCDABoot Camp) Data ONTAP 7-Mode exam # NSO-155. Through lectures and labs, you will learn about the features and functions of the NetApp Data ONTAP 7-Mode operating system

Duration 10 days Price 79.000 SEK

and about network-attached storage (NAS) administration and SAN configuration.

Prerequisite: The Student should have completed the Web-Based Training "Introduction to NetApp Products".

Performance Analysis on Data ONTAP 7-mode (PAD)

The course provides students with the knowledge and skills to perform data collection and analysis on NetApp storage systems. Students will learn how to interpret data and apply performance

Duration 3 days Price 23.700 SEK

changes based on their analysis. They will use analysis data for tuning and monitoring performance. **Prerequisite:** The Student should have attended D7ADM.

Clustered Data ONTAP 8.2 Administration (DCADM)

In this course, you will learn the evolution of clustered Data ONTAP, utilize new features such as flash pool and infinite volumes, understand the benefits of scalability, be able to explain the architecture and functionality of a Data ONTAP, and be able to configure and man-

Duration 5 days Price 39.500 SEK

age, a Data ONTAP cluster. **Prerequisite:** The Student should have done the following Web-Based Training: Introduction to Cluster-Mode for 7-Mode Administrators, Data ONTAP 8.2 Cluster-Mode: New Features, Data ONTAP Cluster-Mode Fundamentals and Data ONTAP 8 Cabling.

NETAPP PROTOCOLS

Data ONTAP CIFS 8.2 Administration (CIFS)

This course is intended for those who provide support and administration for a CIFS environment on NetApp storage systems running the Data ONTAP operating system. The course demonstrates how to

Duration 2 days Price 15.800 SEK

administer CIFS version 1.0, 2.0, and 2.1 in Data ONTAP operating in 7-Mode and CIFS version 1.0, 2.0, 2.1, and 3.0 in clustered Data ONTAP. **Prerequisite:** The Student should have attended D7ADM or DCADM.

Data ONTAP NFS 8.2 Administration (NFS)

This course is designed for those who provide support and administration for an NFS environment on NetApp storage systems running the Data ONTAP operating system. The course covers the NFS proto-

Duration 1 day Price 7.900 SEK

col and implementation criteria; configuration, administration, and monitoring options; and troubleshooting NFS problems. **Prerequisite:** The Student should have attended DOTF or D7ADM.

NETAPP SAN

SAN Implementation (SANIW)

The workshop shows how to connect Windows, vSphere, and Linux hosts using FC and iSCSI protocols into a NetApp storage area network (SAN). By the end of this course you should be able to: Define and describe storage area networks; Configure hosts for iSCSI & FC connectivity; Create and access a LUN by way of FCP and iSCSI from

Duration 3 days Price 23.700 SEK

hosts; Install and use SnapDrive to create, Snapshot, and restore LUNs from a Snapshot copy, and remove LUNs; Size, clone, back up and recover LUNs on hosts; and Troubleshoot SAN connectivity and performance issues. **Prerequisite:** The Student should have a NCDA and have done the SAN Fundamentals on Data ONTAP Web-Based training.

SAN Scaling and Architecting (SANSA)

Prepare for the NetApp Certified Implementation Engineer (NCIE) SAN 502 and 503 exams and for the implementation of Data ONTAP 8.1 Cluster-Mode SAN at the same time. Through lectures and labs, explore SAN by learning about the intricacies of Fibre Channel (FC), FC over Ethernet (FCoE), and iSCSI as you discover how to scale your SAN with Data ONTAP 8.1 Cluster-Mode SAN. **Prerequisite:** The Student should have a NCDA and have attended SANIW and DCADM.

Duration 2 days Price 15.800 SEK



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NETAPP E-SERIES

Configuring NetApp E-Series Storage Systems (ESERIESCONFIG)

Duration 3 days Price 23.700 SEK

In this course you learn how to configure a new E-Series storage system and establish connectivity with SAN. You use the SANtricity tool and E-Series code level commands to manage the E-Series controllers to improve I/O performance. You will also be using prominent premium

features to restore data. **Prerequisite:** The Student should have basic Windows or Linux administrative experience and have done the Web-Based Training NetApp E-Series Hardware Architecture and Configuration.

Maintaining NetApp E-Series Storage Systems (ESERIESMAIN)

Duration 2 days Price 15.800 SEK

In this course, you learn how to support and maintain E-Series storage systems. Building on the skills that you learned in the Configuring E-Series Storage Systems course, you learn how to perform various maintenance tasks, such as inserting faults, evaluating support data, and using the Recovery Guru. Your learning is reinforced through simulations, guided labs, and review questions. **Prerequisite:** The Student should have attended ESERIESCONFIG.



NETAPP PARTNER TRAINING

NetApp Hands on Installation Workshop (HOIW)

Duration 3 days Price 15.800 SEK

This course prepares you to deliver installation services – meeting NetApp quality standards and using NetApp best practices. Using your laptop, and the appropriate tools, you practice all installation tasks and set up NetApp equipment in a highavailability configuration. You learn how to set up customer NOW (NetApp on the Web) accounts, register equipment, test the AutoSupport Connection, and conduct a customer

briefing. Successful completion of the final practical exam will give you confidence to deliver quality installation services. **Prerequisite:** The Student should have done Introduction to NetApp Products. FAS3000 and FAS6000 Hardware Maintenance. NetApp Hardware and Software Installation Fundamentals. Data ONTAP Fundamentals. Additional courses listed in the APSP NCDA Training Path.

NetApp Hands On Labs - EXAM (HOIW EXAM)

Duration 1 day Price 4.950 SEK

This hands-on exam, NetApp Accredited Installation Professional (NSO-051-NAIP2) will document your working knowledge of the installation and hand-off of a new NetApp hardware deployment to a

customer. All partners seeking Professional Services Certification are required to complete this requirement within nine months of activation. **Prerequisite:** The Student should have attended HOIW and D7ADM.

NETAPP DATA PROTECTION

NetApp Protection Software Administration (NPSA8)

This course will teach the Student how to become proficient with Data ONTAP Snapshot, SnapRestore, SnapMirror, SnapVault, Open Systems SnapVault technologies used to replicate and restore mission-critical data in the enterprise. Backup and restore operations are taught using the NetApp storage system command line, OnCommand System Manager, and the protection and provisioning

Duration 2 days Price 15.800 SEK

capabilities of the OnCommand Unified Manager. The course also provides an overview of the NetApp SnapProtect solution, the DataFabric Manager Server Plug-in for Symantec NetBackup, and NetApp Syncsort Integrated Backup (NSB). **Prerequisite:** The Student should have attended D7ADM.

SnapProtect Solution Administration (SPSA)

This course provides instruction, hands-on practice, and interactive demonstrations to help you to learn how to administer the NetApp SnapProtect solution. Learn how to configure backup and recovery for application server, database server, and virtualization server data, using NetApp FAS, the SnapProtect Open System SnapVault Plug-in,

Duration 3 days Price 23.700 SEK

and IBM N-Series storage systems to provide primary and secondary storage. You will also learn how to plan, install, upgrade, restore, and troubleshoot the SnapProtect and DataFabric Manager servers. **Prerequisite:** The Student should have attended D7ADM.

NetApp MultiStore Administration (NMA)

This highly focused course provides a detailed understanding of how to implement and administer NetApp MultiStore. Upon completion the student will understand product placement for NetApp MultiStore. Additionally, the student will understand the process for secure implementation of MultiStore and how various NetApp technologies

Duration 2 days Price 15.800 SEK

integrate with MultiStore to enhance data management. Practical lab exercises augment and reinforce the courseware to provide a unified curriculum. **Prerequisite:** The Student should possess an intermediate knowledge of NetApp storage and Data ONTAP.

MetroCluster & High Availability (METRO)

This course delivers the student with skills to successfully install, configure and administer a NetApp Fabric Attached MetroCluster. You will learn: Fibre Channel Fabric Basics, Analysis of existing Storage systems, Configuration of the components, Installation of a Cluster

Duration 2 days Price 15.800 SEK

& Cabling, SnapMirror Configuration & Administration, Failover scenarios, Disaster Recovery, Troubleshooting in MetroCluster environments. **Prerequisite:** The Student should have attended D7ADM and have basic skills in SAN and High Availability solutions.

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NETAPP MANAGEMENT SOFTWARE

NetApp OnCommand Unified Manager Administration (OCADM) Duration 4 days Price 31.600 SEK

Centralize your ability to deploy, automate, protect and monitor all your storage with NetApp OnCommand unified manager software. With its unique capability of monitoring and managing both physical and virtual storage infrastructures, it offers effective, cost-efficient management of your shared storage infrastructure. It enables you to optimize utilization, meet SLAs, minimize risk, and boost the

performance of your storage infrastructure. This course provides an overview of the features of OnCommand management software. You will learn to administer your storage infrastructure by using OnCommand management software. **Prerequisite:** The Student should have attended D7ADM.

NetApp OnCommand Insight Operation and Best Practices (OCIOBP) Duration 3 days Price 23.700 SEK

Learn how OnCommand Insight software manages and improves an organization's IT infrastructure and service management processes. This hands-on course explains the features and functions of the Insight suite of products and how they work together as a solution. You will learn how Insight helps you use service policies to manage storage, plan for change, and use resources and capacity more effectively.

You complete extensive exercises in which you use best practices and operational procedures to manage Insight. You also review and use data warehouse performance reporting features. **Prerequisite:** The Student should have watch the Get Started Videos: OnCommand Insight Installation and OnCommand Insight Configuration.

NETAPP APPLICATIONS

Impl. Microsoft Exchange on NetApp Storage Systems (MSEXC) Duration 3 days Price 23.700 SEK

In this course you will learn how to optimize Microsoft Exchange Server 2010 in a NetApp storage environment. Through lecture and hands-on labs you will learn architecture planning, data migration, backup and restore, disaster recovery, clustering and troubleshooting. By the end of

this course, you will be able to leverage the power of NetApp technology with Microsoft Exchange Server 2010. **Prerequisite:** The Student should have attended D7ADM and Microsoft Course 10135: Configuring, Managing and Troubleshooting Microsoft Exchange Server 2010.

Impl. Microsoft SQL Server 2012 on NetApp Storage Systems (MSSQL) Duration 3 days Price 23.700 SEK

This solution-based course focuses on Windows Server Failover Clustering, Microsoft SQL Server AlwaysOn Availability Groups, SnapDrive for Windows, and SnapManager for SQL Server. In this course, you will learn how to size and prepare clustered Data ONTAP storage virtual machines (also known as Vservers), install and configure SnapDrive for Windows, install and initialize SnapManager for SQL Server, move SQL databases to NetApp storage, backup and restore SQL databases, cre-

ate Availability Groups, and troubleshoot common misconfigurations. By the end of this course, you will be able to confidently implement SQL Server 2012 on clustered Data ONTAP storage. **Prerequisite:** The Student should have attended D7ADM, NPSA8 and SANIW. Furthermore the Student should have done Architecting Microsoft SQL Server on NetApp Storage Systems Web-Based training and have knowledge of SQL Server backup and restore concepts.

Implementing Oracle on NetApp Storage Systems (ORONSS) Duration 3 days Price 23.700 SEK

In this course you learn how to implement an Oracle Database solution in a NetApp storage environment. Through lecture and hands-on exercises, you practice discovering, planning, designing and provisioning an Oracle environment. In this class you install Oracle, configure an Oracle database; use several solutions to back up Oracle databases, and restore an Oracle database. The material of this class is not meant to provide an exhaustive study of Oracle. The purpose of

this class is to practice the specific steps of the deployment and administration of an Oracle database using NetApp clustered Data ONTAP and NetApp integrated data protection technology. **Prerequisite:** The Student should have done the Architecting Oracle on NetApp Storage and Data ONTAP Cluster-Mode Fundamentals Web-Based Training Courses as well as being familiar with Data ONTAP 7-Mode administration and Data ONTAP Cluster Mode Administration.

NETAPP VIRTUALIZATION**VMware vSphere on NetApp (VVNA)****Duration 5 days Price 39.500 SEK**

This course covers the planning, installation, configuration, and administration of VMware ESXi 5 with vCenter Server 5 management interface in a NetApp storage environment. Comparison of NFS and VMFS datastore pros and cons are explained with configuration of related network settings. The NetApp plug-in, Virtual Storage Console for vCenter 4/5 with Monitoring and Host Configuration capability, Backup and Restore capability and Provisioning and Cloning capability is covered extensively with hands-on labs. Demonstration and

configuration of SnapMirror and VMware HA/DRS for High Availability and SnapVault, OSSV and SnapProtect for Backup and Restore in VMware environments are fully explained and demonstrated. The class provides practical scenarios and explanation of NetApp/VMware best practices, performance tuning and troubleshooting ESXi 5 Clusters on NetApp Data ONTAP 8.1 7-mode. **Prerequisite:** The Student should have attended D7ADM and VICM and have knowledge on NetApp storage systems, VMware Virtualization, Linux and Windows Servers.

Design and Implement Virtualization Solutions on NetApp Storage (DIVS) Duration 4 days Price 31.600 SEK

Learn how to design and implement virtualization solutions on NetApp storage systems. In this course, you learn how to deploy VMware virtual infrastructure on NetApp storage, how to integrate VMware and NetApp features, and how to deploy Microsoft Windows server

virtualization (Hyper-V) on NetApp storage. **Prerequisite:** The Student should have NetApp Core Technical Training and NetApp SAN Core Technical Training as well as basic knowledge of VMware and Microsoft virtualization or equivalent knowledge.

Implementing Hyper-V on Data ONTAP (IHVDO) COMING SOON**Duration 2 days Price 15.800 SEK**

Learn how to implement Microsoft Hyper-V virtualization solutions on NetApp Data ONTAP 7-Mode and clustered Data ONTAP. In this course, you learn how to deploy the Microsoft Windows Server 2012 virtual infrastructure on Data ONTAP storage. The exercises use

clustered Data ONTAP. **Prerequisite:** The Student should have NetApp Core Technical Training and NetApp SAN Core Technical Training as well as basic knowledge of VMware and Microsoft virtualization or equivalent knowledge.

Implementing VMware vSphere on Data ONTAP (IWVDO) COMING SOON Duration 2 days Price 15.800 SEK

Learn how to implement VMware vSphere virtualization solutions on NetApp Data ONTAP 7-Mode and clustered Data ONTAP. In this course, you learn how to deploy VMware virtual infrastructure on NetApp storage. The exercises use clustered Data ONTAP.

Prerequisite: The Student should have NetApp Core Technical Training and NetApp SAN Core Technical Training as well as basic knowledge of VMware and Microsoft virtualization or equivalent knowledge.

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NETAPP FLEXPOD TRAINING

FlexPod for Account Managers (FPAM)

Duration 1 day Price 8.900 SEK

This course teaches you how to articulate to your customer why a Flex/ExpressPod solution is an essential part of any customer's cloud compute strategy to deliver the rapid delivery and lower cost benefits

of Cloud delivered IT services. **Prerequisite:** The Student should have a background in networking and solution sales or equivalent knowledge.

Architecture and Design of FlexPod Datacenter (ADFPD)

Duration 2 days Price 15.800 SEK

This intense course provides a detailed understanding of FlexPod's architectural design and infrastructure. FlexPod provides a highly scalable reference architecture with predesigned, pretested, industry validated software and hardware configurations. Developed specifically to simplify and standardize data center deployments, FlexPod

is integral to delivering Infrastructure as a Service (IaaS) and next generation customer support. **Prerequisite:** The Student should have an intermediate knowledge of one or more of the following: NetApp storage technologies, VMware vSphere, Microsoft Hyper-V or/and Cisco UCS Computing and Nexus Switching.

FlexPod Implementation (FPI)

Duration 3 days Price 23.700 SEK

This course provides you with hands-on experience installing and configuring the base infrastructure components of FlexPod. This course, will give you a detailed understanding of FlexPod's architecture, the infrastructure components and base configuration. You will gain insight into the various hardware configurations supported

by FlexPod and how those components integrate. This course will explore key FlexPod architectural components, options, and tools. **Prerequisite:** The Student should have an intermediate knowledge of: NetApp storage, VMware vSphere, Cisco UCS Computing or Nexus Switching. *This course is an upgraded consolidation of FPVE and FPVI.*

FlexPod for VMware Essentials (FPVE)

Duration 2 days Price 15.800 SEK

This course teaches you how to prepare for and deploy FlexPod in a VMware environment with an emphasis on exploiting the key tech-

nologies in the Cisco Nexus series of switches. **Prerequisite:** The Student should have some background in Cisco routing and switching.

FlexPod for VMware Design and Implementation (FPVI)

Duration 3 days Price 23.700 SEK

This course is designed for those who need to become experienced with the planning, design, and implementation of a base FlexPod for VMware infrastructure. Using design examples to reinforce objectives,

this course delivers a structured approach to implementing FlexPod for VMware. **Prerequisite:** The Student should have attended FPVE or have equivalent knowledge.

FlexPod for VMware Administration (FPVA)

Duration 3 days Price 23.700 SEK

This highly focused course provides a detailed understanding of administration tasks associated with administering FlexPod for VMware. This course focuses on post-implementation administration of NetApp MultiStore, Cisco Unified Computing Systems, Cisco Nexus 5000 switches, and VMware vSphere. This course outlines

core administrative tasks such as server and application deployment, network separation, application management, backup and disaster recovery. **Prerequisite:** The Student should have completed FPVE as well as possess an basic knowledge of Cisco UCS, NetApp Unified storage and Cisco Nexus switching.

Implementing Enhanced Secure Multi-Tenancy (IESMT)

Duration 3 days Price 23.700 SEK

This course provides a detailed understanding of how to integrate NetApp MultiStore, Cisco Unified Computing Systems (UCS), Cisco Nexus 1000v switches, and VMware vSphere to create a secure multi-tenant computing environment based on the Enhanced Secure Multi-tenancy guidelines. NetApp MultiStore serves as the storage foundation for multi-tenancy, Cisco UCS serves as the server hardware platform for VMware vSphere, and Cisco Nexus 1000v functions as a virtual intelligent switch. These individual products combine to

provide secure isolated multi-tenant computing environments with independent security models, assured quality of service for critical services and applications, highly available redundant architecture, and an administrative support model that defines access levels for tenant administrators. **Prerequisite:** The Student should have a CCNA and have attended FPVE and VMware (VICM) as well as possess an solid knowledge of networking protocols and a good understanding of virtualized environments.

FlexPod UCS Director Infrastructure Management (FPUCSDIM)

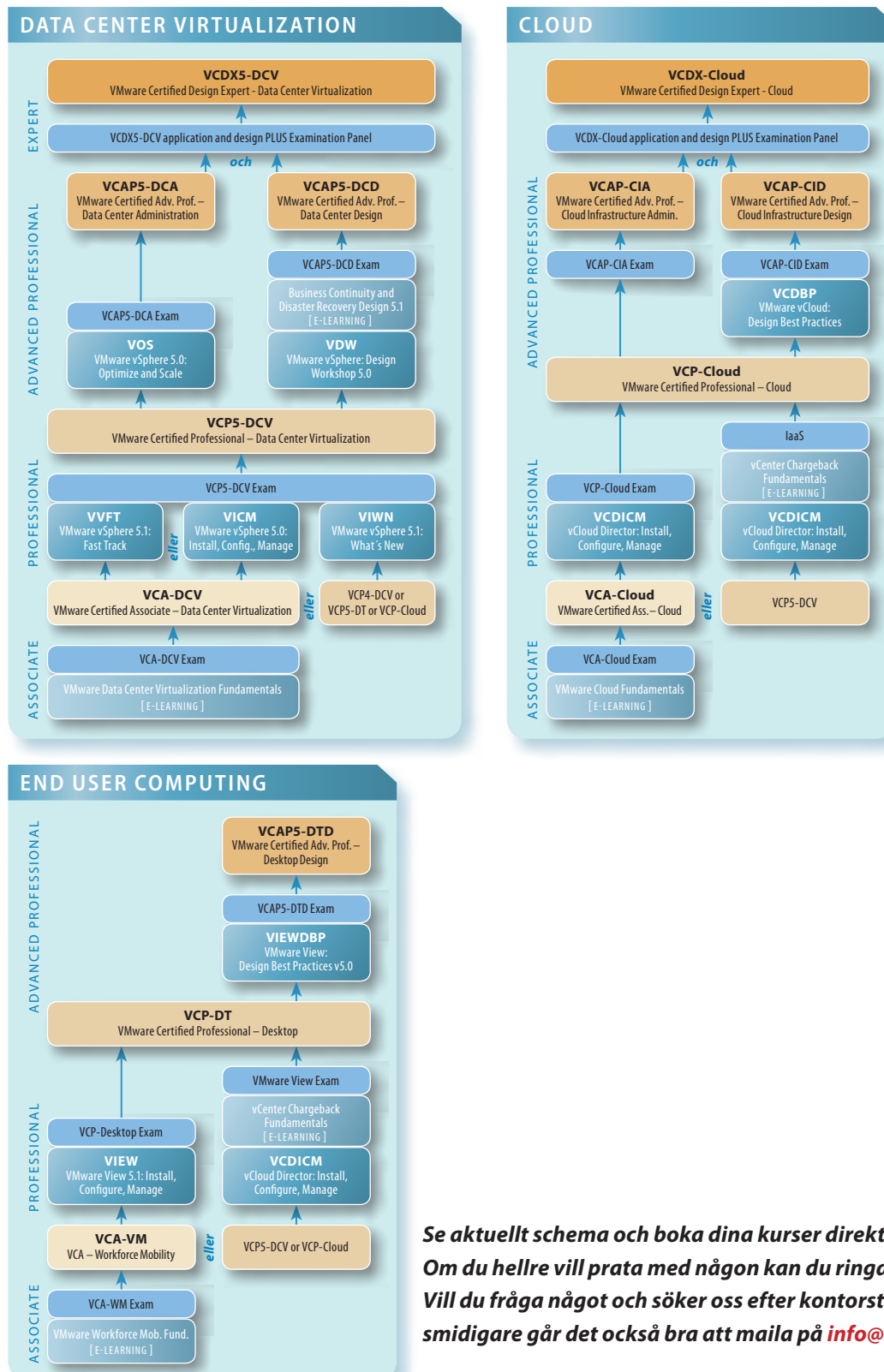
Duration 2 days Price 18.900 SEK

This workshop with hands-on labs immerses you into the operations of Cisco UCS Director Infrastructure Management 1.0 and its functional components based on FlexPod. You will get a hands-on experience setting up Cisco UCS Director infrastructure and learn how to monitor and manage physical and virtual server resources, manage storage

and manage network infrastructure. The deployment, maintenance and update capabilities that are supported by Cisco UCS Director are also covered. **Prerequisite:** The Student should have knowledge of data center operations, cloud computing concepts and cloud architecture and a basic understanding of data storage reference architectures.

VMware certifieringar

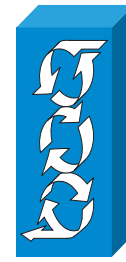
VMware utvecklar sin mjukvara och bygger ut sina certifieringar kontinuerligt. I takt med det har de blivit allt mer efterfrågade. De senaste tillskotten är Associate-nivån på alla certifieringsspår. Det som ligger i pipeline inom Cloud är VCAP-Cloud Governance. Inom End User Computing kommer VCAP-Desktop Administration och VCDX-Desktop. Network Virtualization kommer snart.



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VMWARE VSPHERE

VMware är en väsentlig del i Multi Tenancy- och Multi Storage-koncepten liksom i Ciscos Nexus- och UCS-lösningar. Därför bör en nätverkstekniker lära sig grunderna i VMware. Tillsammans med våra partners garanterar vi dig de bästa instruktörerna, många med mer än 10 års erfarenhet av fältarbete, konsulting och utbildning.



VMware vSphere 5.1: Install, Configure, Manage (VICM)

Duration 5 days Price 28.500 SEK

This hands-on training course explores installation, configuration, and management of VMware vSphere, which consists of VMware ESXi and VMware vCenter Server. The course is based on ESXi 5.1 and vCenter Server 5.1. Completion of this course satisfies the prerequisite

for taking the VCP5-DCV exam. **Prerequisite:** The Student should have system administration experience on Microsoft Windows or Linux operating systems.



VMware vSphere 5.1: Fast Track (VVFT)

Duration 5 days Price 35.900 SEK

This intensive, extended-hours training course focuses on installing, configuring, and managing VMware vSphere 5.1. This course combines the content of VICM with advanced tasks and skills for configuring a highly available and scalable virtual infrastructure. The course is based on VMware ESXi 5.1 and VMware vCenter Server 5.1. Comple-

tion of this course satisfies the prerequisite for taking the VCP5-DCV exam. **Prerequisite:** The Student should be comfortable with system administration using command-line interfaces and have a basic understanding of virtualization concepts. Willingness to participate in a demanding, high-intensity training experience is a must.

VMware vSphere 5.1: What's New (VIWN)

Duration 2 days Price 13.200 SEK

This hands-on training course explores new features in VMware vCenter Server 5.1 and VMware ESXi 5.1. Topics include VMware vSphere 5 installation and how to upgrade from vSphere 4.x to

vSphere 5.1. This version of vSphere includes only the ESXi hypervisor. **Prerequisite:** The Student should have completed VICM 4 or equivalent vSphere 4 administration experience.

VMware vSphere 5.1: Skills for Operators (VSO)

Duration 2 days Price 13.200 SEK

This is a technical classroom training course designed to help the operators and administrators to create and manage virtual machines. This lecture and lab course will help students gain the skills required

to work effectively with VMware virtual machines. **Prerequisite:** The Student should have system administration experience on Microsoft Windows or Linux operating systems.

VMware vSphere 5.1: Troubleshooting Workshop (VSTS)

Duration 5 days Price 28.500 SEK

This hands-on training workshop provides you with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere environment. It also increases your skill

and competence in using the command line to analyze problems. The workshop is based on VMware ESXi 5.1 and VMware vCenter Server 5.1. **Prerequisite:** The Student should have attended VICM or equivalent.

VMware vSphere 5.1: Optimize and Scale (VOS)

Duration 5 days Price 28.500 SEK

In this course you will learn how to: Configure and manage ESXi networking and storage for the large and sophisticated enterprise. Manage changes to the vSphere environment. Optimize the performance of vSphere components. Troubleshoot faults and identify their root

causes. Use a command-line interface and the vSphere Management Assistant to manage vSphere. Use vSphere Auto Deploy to provision ESXi hosts. **Prerequisite:** The Student should have attended VICM and have administration experience with ESXi and vCenter Server.

VMware vSphere 5: Design Workshop (VDW)

Duration 3 days Price 19.500 SEK

This course explores a design methodology, criteria, and approach for designing a VMware vSphere 5 virtual datacenter architecture consisting of VMware ESXi 5 and VMware vCenter Server 5. This course, by discussing the benefits and risks of available design alternatives, provides information which supports making sound design decisions.

This course also provides an opportunity to practice your design skills by working with peers on a design project. The course is 55 % lecture and 45 % lab exercises. **Prerequisite:** The Student should have knowledge of vSphere 5.0 installation, upgrade, configuration, and system administration.

VMWARE V CLOUD

VMware vCloud Director 5.1: Install, Configure, Manage (VCDICM) **Duration 3 days Price 19.500 SEK**

This course demonstrates to technical personnel how to deploy VMware vCloud Director for a small private cloud environment and manage the ongoing operation of the deployment. The course focuses on the private cloud in an engineering or quality assurance solution. The course covers all of the fundamentals needed to install, configure,

and manage any small private cloud with vCloud Director. This course is the prerequisite for other courses that cover more advanced vCloud Director configurations in enterprise deployments. **Prerequisite:** The Student should have completed VICM and the VMware vCloud Director: Essentials/Fundamentals Web-Based Training.

VMware vCloud: Design Best Practices (VCDBP) **Duration 3 days Price 19.500 SEK**

At the end of the course, you will have gained an understanding of the best practices for designing with VMware's vCloud solutions and be able to do the following: Evaluate and design a multi-tenant environment to address both private cloud and public cloud customer needs. Configure vCloud providers that can accommodate heterogeneous server, storage, and network resources. Design a network

infrastructure optimized for vCloud. Integrate vCloud Director security with existing LDAP systems and design appropriate security hierarchies with security roles. Design a vCenter Chargeback implementation. **Prerequisite:** The Student should have a VCP5-DCV or a VCP-Cloud and have had exposure to the features and functionality of vCloud Director, vSphere, vShield Edge, and vCenter Chargeback.

VMware vCloud Automation Center 5.2: Install, Configure, Manage (VCACICM) **Duration 3 days Price 19.500 SEK**

This training course focuses on installing, configuring, and managing VMware vCloud Automation Center. This course covers the configuration and use of vCloud Automation Center as a platform for self-service provisioning of virtual, cloud, and physical machines to

create and manage on-demand multivendor cloud infrastructures. **Prerequisite:** The Student should have attended VICM and VCDICM or have equivalent knowledge.

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VMware vCenter Configuration Manager: Introduction (VCM I) Duration 3 days Price 19.500 SEK

In this hands-on training course, you will build your skills with VMware vCenter Configuration Manager (VCM). You will gain the knowledge and skills to configure VCM, navigate the user interface, manage compliance and patch levels, and perform administration

tasks. **Prerequisite:** The Student should have System administration experience in Microsoft, Linux, Solaris, or Novell environments. Experience performing basic administration tasks on virtual machines and VMware ESX hosts in a VMware vCenter Server system.

VMware vCenter Operations Manager: Analyze and Predict (VCOPS) Duration 2 days Price 13.200 SEK

By the end of the course, you will be able to: Understand major and minor badges and their underlying metrics. Use these badges to find root causes of common operational issues in a vSphere environment. Perform capacity management and what-if analyses. Use the Operations tab, the Planning tab, the Alerts tab, the Analysis tab, and the Reports tab. Navigate the vCenter Operations Manager 5.0 user interface. Use heat maps and create a custom heat map. Use smart alerts to detect system issues. Articulate the use case for the new policy

structure in vCenter Operations Manager and how it can be used to define configuration settings for objects in a vSphere environment. Work with groups to classify virtual objects in logical and business-related structures and how to apply them to policies. Define new use cases based on the optimized integration with VMware vCenter Operations Management Suite products. **Prerequisite:** The Student should have completed VICM and have hands-on experience administering vSphere 5 deployments.

VMware vCenter Site Recovery Manager: Install, Configure, Manage (VSRM) Duration 2 days Price 13.200 SEK

This hands-on training course equips experienced VMware vSphere administrators with the knowledge to install, configure, and manage VMware vCenter Site Recovery Manager 5.1. This course them with the knowledge to assist in writing and testing disaster recovery plans

that use SRM. The content of the course is a subset of the knowledge tested in the VCDX5-DCV exam. **Prerequisite:** The Student should have attended VICM and have basic knowledge of disaster recovery concepts and basic knowledge of storage array technology.

VMware vCenter Config. Manager for Virtual Infrastructure Management (VCMIM) Duration 3 days Price 19.500 SEK

This hands-on training course builds your skills with VMware vCenter Configuration Manager (VCM). It will provide you with the knowledge and skills to install and configure VCM, navigate the user interface, manage compliance, and perform administrative and configuration tasks against your virtual infrastructure.

Prerequisite: The Student should have experience in basic administration tasks on VMware vSphere ESXi hosts, VMware vCenter Server, VMware vCloud Director, VMware vShield, and virtual machines as well as system administration experience in a Windows, Linux, or Solaris environment.

VMware vCenter Orchestrator: Developing Custom Workflows (VCODW) Duration 3 days Price 19.500 SEK

For the VMware Cloud infrastructure, vCenter Orchestrator is the most important tool to master in order to design and manage intelligent workflows supporting IT Process Automation. This hands-on training course explores the use of VMware vCenter Orchestrator for

the automation of IT processes, both physical and virtual. **Prerequisite:** The Student should have knowledge of VMware vSphere and ability to script or program in JavaScript, Powershell, Perl, Java, Python, or similar languages.

VMWARE VIEW

VMware Horizon View 5.2: Install, Configure, Manage (VHVICM)

Duration 4 days Price 24.900 SEK

This hands-on training course builds your skills in the VMware Horizon View suite of products: VMware View Manager, VMware View Composer, and VMware ThinApp. This course is based on the Horizon

View 5.2 and ThinApp 4.7 releases. **Prerequisite:** The Student should have completed VICM and have experience in Microsoft Windows Active Directory administration as well as with VMware vSphere.

VMware View 5.1: Install, Configure, Manage (VIEW)

Duration 4 days Price 24.900 SEK

This hands-on training course builds your skills in the VMware View suite of products: VMware View Manager, View Composer, and VMware ThinApp. This course is based on the View 5.1 and ThinApp 4.7

releases. **Prerequisite:** The Student should have completed VICM and have experience in Microsoft Windows Active Directory administration as well as with VMware vSphere.

Application Virtualization Using VMware ThinApp (THIN)

Duration 1 day Price 7.900 SEK

This course will provide applications-oriented administrators with the knowledge and skills to virtualize Windows applications with VMware ThinApp, modify the Package.ini parameters to handle special

circumstances, and choose the best deployment and updating processes for their environment. **Prerequisite:** The Student should have attended VICM and the VMware ThinApp Fundamentals WBT Course.

VMware View 5.1: Desktop Fast Track (VIEWFT)

Duration 5 days Price 34.900 SEK

This fast-paced, extended-hour training course includes the content of the following courses: VMware View: Install, Configure, Manage (VIEW) and Application Virtualization with VMware ThinApp (THIN).

Prerequisite: The Student should have completed VICM and the VMware ThinApp Fundamentals WBT Course as well as experience in Windows Active Directory administration as well as with VMware vSphere.

VMware View 5.x: Design Best Practices (VVD)

Duration 2 days Price 13.200 SEK

This course presents a methodology for designing a VMware View solution for the VMware vSphere infrastructure. The design methodology includes recommendations for the type of information and data that must be gathered and analyzed to make sound design decisions for client systems, desktop options, the vSphere infrastructure, and

View components. VMware best practices are presented during each phase of the design process. You will work with other participants to design a View solution for a real-world project. **Prerequisite:** The Student should have completed VICM and VIEW or have the equivalent knowledge.

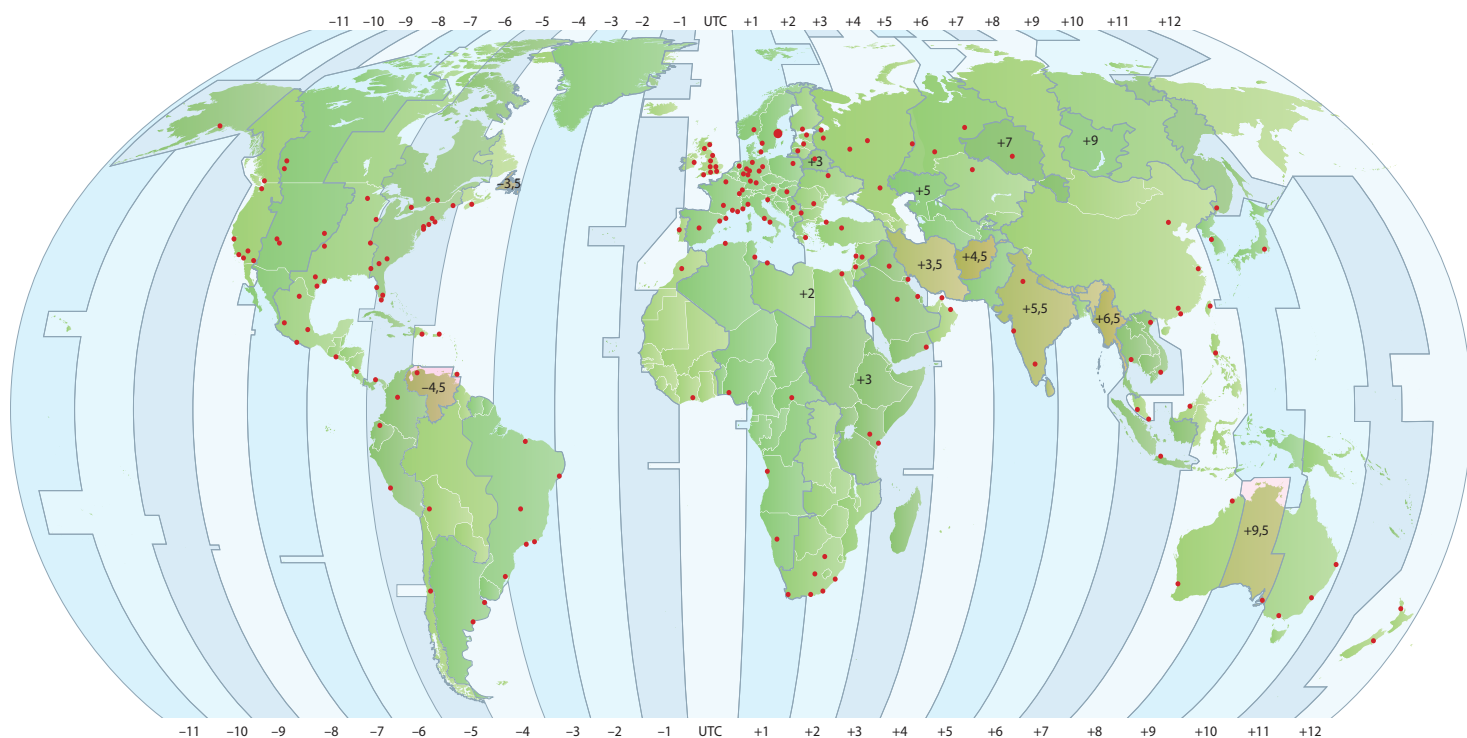
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Fast Lane Training Centers

Vi har Training Centers i mer än 50 länder runt hela världen. Här nedan ser du några av dem. Du kan välja att gå din utbildning var du vill och faktureras från vårt svenska kontor.



Praktiska upplysningar och allmänna villkor

Anmälan

Anmälan sker enklast på www.fastlanenordic.com, eller via e-post: info@fastlanenordic.com.

Vi bekräftar din anmälan med detaljerad information om kursen du anmält dig till (tid, plats och datum) senast 14 dagar innan kursstart via e-post.

Vi reserverar oss för rätten att ställa in en kurs senast 14 dagar innan kursstart om deltagarantalet är för litet.

Kursavgifter

Alla priser är nettopriser. Moms eller andra nationella skatter tillkommer. Kursavgiften inkluderar dokumentation, lunch samt för- och eftermiddagskaffe.

Ändringsanmälan

Vi accepterar ändring av kursdatum fram till 14 dagar innan kursstart. Kursdatum kan bara ändras en gång.

Avbokning

Avbokning måste skickas skriftligt via post eller e-post. Enligt branschens standardregler för avbokning debiteras 50% av kursavgiften vid avbokning 4-2 veckor före kursstart och 100% av kursavgiften vid avbokning 2-0 veckor före kursstart. Ni kan ersätta anmäld deltagare med annan fram till kursstart.

Om vi måste ställa in en kurs på grund av Force Majeure eller annan oförutsägbar anledning (t.ex. lärares olycka eller sjukdom) är Fast Lanes ansvar begränsat till återbetalning av kursavgiften. Företaget är inte ansvarigt för återbetalning av rese- och logistikostnader.

Om en kursdeltagare ej kan inställa sig till kursstart på grund av sjukdom erbjuds nytt datum vid uppvisande av läkarintyg. Ingen avbokningsavgift utgår i sådana fall.

Betalningsvillkor

Fakturering sker efter anmälan, dock tidigast 6 veckor före kursstart. Betalningsvillkor är tjugo (20) dagar.

Betalning för kurs skall vara erlagd före kursstart.

Garanti

Fast Lane erbjuder utbildning av högsta kvalitet inom High-End Networking, Storage och Telekommunikation.

Om du inte är nöjd efter första kursdagen måste du meddela detta till din säljansvarige och returnera dokumentationen. Då återbetalas hela kursavgiften alternativt bokas din kursplats om till ett annat kurstillfälle.

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Köp nu så ingår Fast Lane Blended Learning med mentorskap, e-böcker, för- och eftertester, vue test samt en läsplatta.

CCNAX v2.0

5 dagar

CCNAX 2.0 kombinerar grundläggande nätverksskunkap, IOS, CLI, konfiguration och belyser såväl felsökning som VLSM, Scaling med NAT och PAT, trafikhantering med ACLs, VLANs & IPv6.

FÖLJANDE INGÅR I CCNAX:

ICND1 v2.0
Interconnecting Cisco Network
Devices Part 1

ICND2 v2.0
Interconnecting Cisco Network
Devices Part 2

Exam
200-120

PRIS: **29.900** SEK inkl. Fast Lane Blended Learning

CCNP Security BootCamp

15 dagar

CCNP Security Boot Camp förbereder för Security-certifieringen på kortast möjliga tid. Var beredd på en intensiv kurs.

FÖLJANDE INGÅR I CCNPSBC:

SECURE
Securing Networks with
Cisco Routers and Switches

Exam
642-637

FIREWALL
Deploying Cisco ASA
Firewall Solutions

Exam
642-618

IPS 7
Implementing Cisco Intrusion
Prevention System v7.0

Exam
642-627

VPN
Deploying Cisco ASA
VPN Solutions

Exam
642-648

PRIS: **79.900** SEK inkl. Fast Lane Blended Learning

CCNP Wireless BootCamp

15 dagar

CCNP Wireless Boot Camp ger dig möjligheten att bredda och fördjupa kunskapen om trådlösa nät.

FÖLJANDE INGÅR I CCNPWBC:

CUWSS
Conducting Cisco Unified
Wireless Site Survey

Exam
642-732

IUWVN
Implementing Cisco Unified
Wireless Voice Networks

Exam
642-742

IUWMS
Implementing Cisco Unified
Wireless Mobility Services

Exam
642-747

IAUWS
Implementing Advanced Cisco
Unified Wireless Security

Exam
642-737

PRIS: **79.900** SEK inkl. Fast Lane Blended Learning

UCS BootCamp

5 dagar

UCS BootCamp lär dig att designa, implementera och hantera Unified Access Layer uppbyggt av Cisco UCS, Unified Computing System. Kursen beskriver plattformen med alla dess komponenter.

FÖLJANDE INGÅR I UCS BOOTCAMP:

DCUCI
Implementing Cisco Data Center
Unified Computing v5.0

Exam
642-999

DCUCD
Designing Cisco Data Center
Unified Computing v5.0

Exam
642-998

PRIS: **34.900** SEK inkl. Fast Lane Blended Learning

CCNA Data Center Bootcamp

5 dagar

Har du en ICND1 eller en CCNA och skall växla in på Data Center? Då kan du gå CCNA DCBC. Lär dig designa, installera och underhålla ett Data Center på 5 dagar på en arbetsfokuserad kurs.

FÖLJANDE INGÅR I CCNA DATA CENTER BOOTCAMP:

DCICN
Introducing Cisco Data Center
Networking

Exam
640-911

DCICT
Introducing Cisco Data Center
Technologies

Exam
640-916

PRIS: **33.900** SEK inkl. Fast Lane Blended Learning

CCNP Data Center Design

15 dagar

Ska du planera, designa och hantera ett Data Center nätverk och certifiera dig behöver du detta paket.

FÖLJANDE INGÅR I CCNP DC DESIGN:

DCUCI
Implementing Cisco Data Center
Unified Computing v5.0

Exam
642-999

DCUCI
Implementing Cisco Data Center
Unified Fabric v5.0

Exam
642-997

DCUCD
Designing Cisco Data Center
Unified Computing v5.0

Exam
642-998

DCUCF
Designing Cisco Data Center
Unified Fabric v5.0

Exam
642-996

PRIS: **79.900** SEK inkl. Fast Lane Blended Learning

CCNP Data Center Troubleshooting 15 dagar

Ska du installera, implementera och administrera ett Data Center nätverk och certifiera dig behöver du detta paketet.

FÖLJANDE INGÅR I CCNP DC TROUBLESHOOTING:

DCUCI
Implementing Cisco Data Center
Unified Computing v5.0

Exam
642-999

DCUCI
Implementing Cisco Data Center
Unified Fabric v5.0

Exam
642-997

DCUCT
Troubleshooting Cisco DC
Unified Computing v5.0

Exam
642-035

DCUFT
Troubleshooting Cisco Data
Center Unified Fabric v5.0

Exam
642-980

PRIS: **79.900** SEK inkl. Fast Lane Blended Learning

Kompetenskort för hela företaget

Använd kortet för hela företagets utbildningar och spara pengar på kursavgifterna.

PRIS 25 DAGAR: **117.500** SEK

PRIS 50 DAGAR: **225.000** SEK

PRIS 100 DAGAR: **429.000** SEK

Kompetenskorten kan inte kombineras med andra avtal eller rabatter. Outnyttjade kursdagar återbetalas ej. Kortet börjar gälla vid betald faktura och är giltigt i 12 månader. Kompetenskort kan inte användas för att betala NetApp kurser, Boot Camps eller Seminarier.

