fast lane

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Learning Solutions

KURSKATALOG HÖSTEN 2010

Ann-Christine Raadsen Brander är vår AM på Fast Lane sedan 2008. Med en lång erfarenhet inom data- och telekommunikationsutbildning är hon lyhörd och lösningsorienterad inför våra kunders önskemål och kan alltid komma med en bra lösning på deras kompetensbehov. Privat gillar Ann-Christine att resa, gärna till Thailand. Med en bakgrund som simhopperska på elitnivå arbetar hon på sin fritid som ledare för Stockholmspolisens IF, sektion simhopp/barn/ungdom.

Nätverk på allvar?

Vi har Sveriges bästa kurser!

Hej,
Nu är det slut på vårterminen och det är sommarlov på Fast Lane. Det betyder tid för oss att färdigställa nya möjligheter för er att öka er kompetens i höst.

Vi publicerar mer än dubbelt så många kurser som sist både inom Cisco och inom NetApp. På Cisco är det främst Unified Communications som fått ett nytt stort kurssortiment men också Data Center, vårt nya favoritspår, där vi verkligen kan levererar ett komplett sortiment. Vi fördubblar våra labmöjligheterna på Nexus under sommaren för att kunna möta den ökande efterfrågan. Även UCS dubblerar vi labben på då vi ser detta område komma starkt. Vi går också med Cisco in i Borderless Networks. Det kan du läsa mer om i Fast Lane News [PRINT] No 1.0.

När vi pratar Data Center och virtualiserade servrar måste vi prata lite storage, NetApp MultiStore och Multi-Tenancy där vi kommer med kurser i hur du virtualiserar från serverlagret över nätverket och ner till datalagringen vilket är ytterst intressant i ett framtidperspektiv då man även här kan optimera utnyttjandet av lagringsmölighet. Jag vill också poängtera Routing och Switching som består av många nya bra kurser som är högaktuella då kraven på bandbred, hastigheter och protokoll fortsätter öka. Alla våra instruktörer är duktiga på Routing och Switching men en del är specialiserade på vissa protokoll och kan hjälpa er till vägs ände.

Branschen expanderar just nu starkt med fler och snabbare tjänster och applikationer inom alla områden från vårt vanliga internetutnyttjande genom en extrem ökning på video-överföring till videokonferens via TelePresence eller Cisco Tandberg till IP-telefoni där möjligheterna ökat enormt.

Vi har valt att inte publicera datum för kurserna i katalogen då de lite mer speciella kurserna ofta följer behovs- och säljcyklar. Därför ser vi gärna att våra kunder följer vår website, *www.fastlanenordic.com*, och söker aktuella kursdatum där. Under kommande läsår kommer vi inte heller att göra massutskick på katalogen denna utan skicka ut den på beställning och distribuera den på mässor. Men främst vill vi att den skall vara ett levande dokument du kan ladda ner på webben. Fast Lane vill ta vårt miljöansvar och hjälpa till så gott vi kan.

Anders Oxelcrantz

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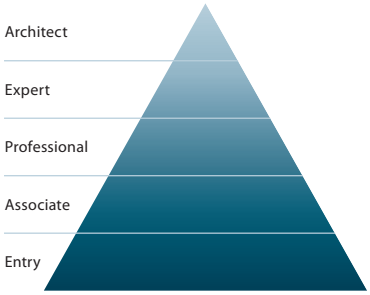
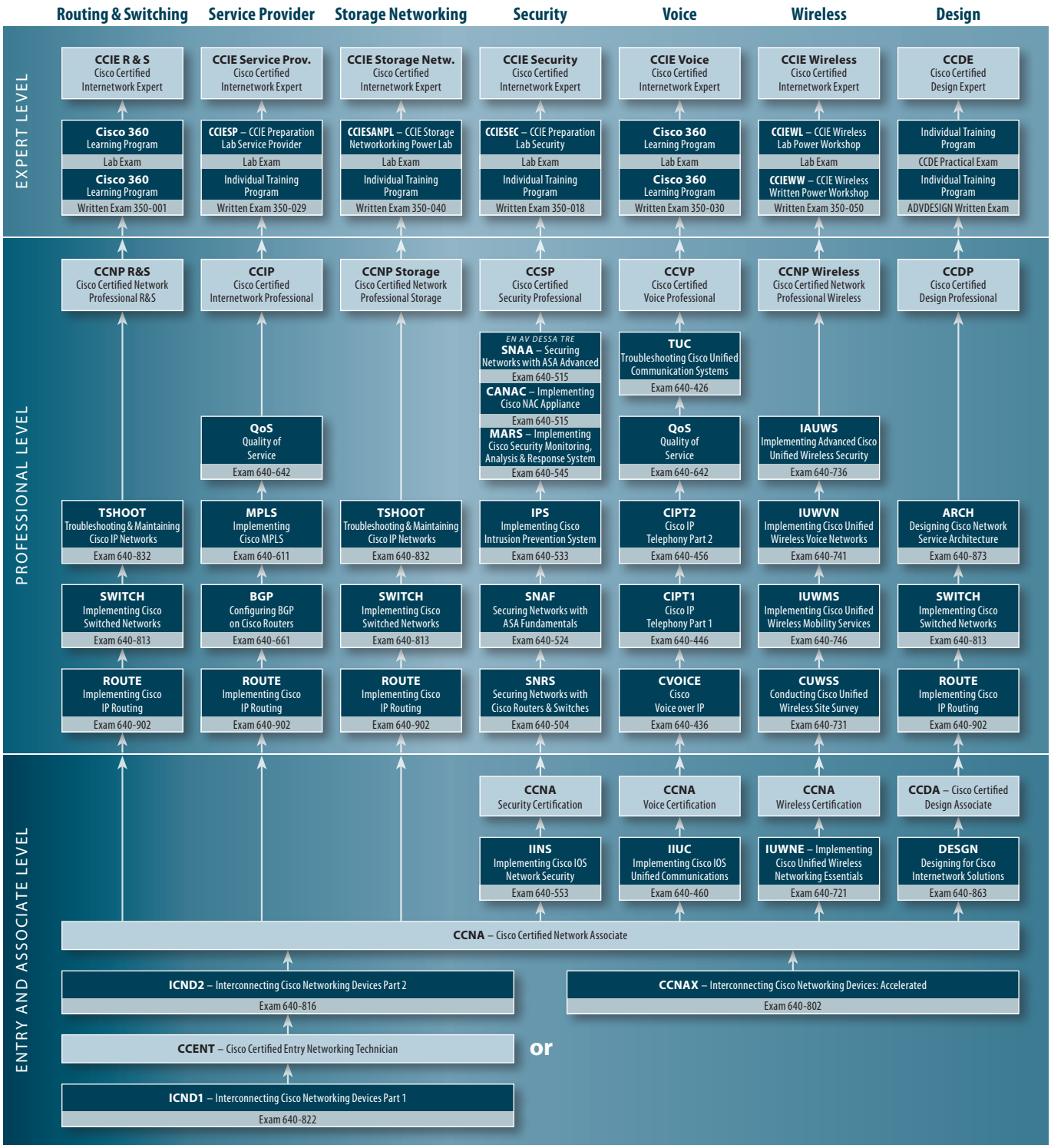
Cisco certifieringar

Ciscos certifieringar är internationellt erkända som dokumentation över kunskap och färdigheter. 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.

Ciscos certifieringar finns inom sju olika områden: Routing & Switching, Service Provider, Storage Networking, Security, Voice, Wireless och Design.

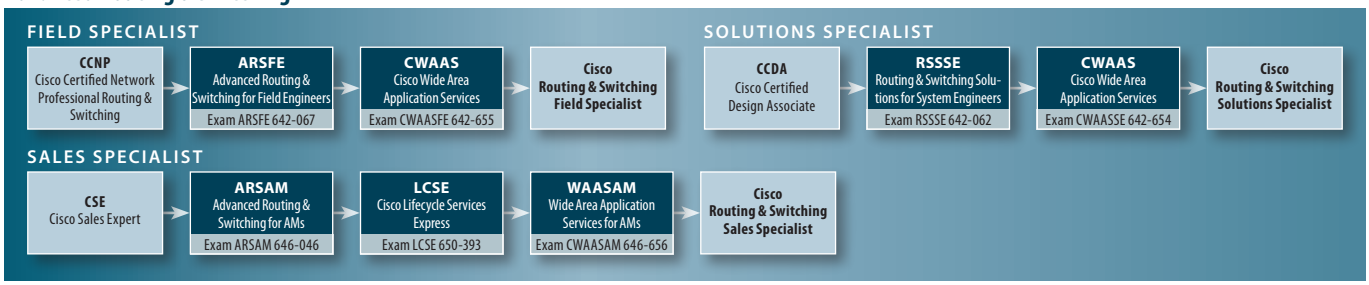




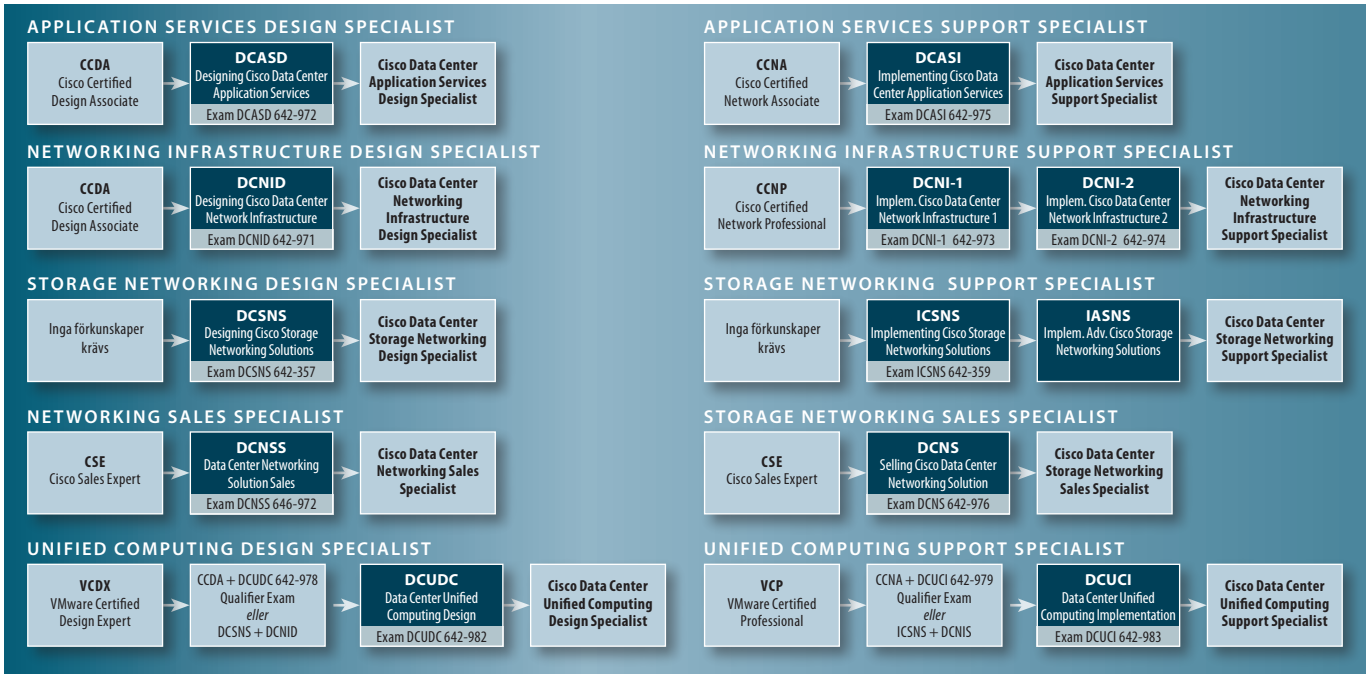
Cisco specialistcertifieringar

Förutom Ciscos generella certifieringar finns specialistcertifieringarna som visar kompetensnivån inom specifika områden, såsom Advanced Routing & Switching, Data Center, Foundation for Channel Partners, MeetingPlace, Security, Unified Communications & Video och Wireless.

Advanced Routing & Switching



Data Center



Foundation For Channel Partners

MeetingPlace

Security & VPN

ASA SPECIALIST

CCNA SECURITY – Cisco Certified Network Associate Security → SNAF – Securing Networks with ASA Fundamentals – Exam SNAF 642-524 → SNAA – Securing Networks with ASA Advanced – Exam SNAA 642-515 → Cisco ASA Specialist

IPS SPECIALIST

CCNA SECURITY – Cisco Certified Network Associate Security → IPS – Implementing Cisco Intrusion Prevention System – Exam IPS 642-533 → Cisco ASA Specialist

NETWORK ADMISSION CONTROL SPECIALIST

CCNA SECURITY – Cisco Certified Network Associate Security → CANAC – Implementing Cisco NAC Appliance – Exam CANAC 646-591 → Cisco Network Admission Control Specialist

SECURITY SOLUTIONS & DESIGN SPECIALIST

CCDA – Cisco Certified Design Associate → SSSE – Security Solutions for System Engineers – Exam SSSE 646-566 → Cisco Security Solutions & Design Specialist

SECURITY SALES SPECIALIST

CSE – Cisco Sales Expert → ASAM – Advanced Security for Account Managers – Exam ASAM 646-563 → Cisco Security Sales Specialist

Unified Communications & Video

IP COMMUNICATIONS EXPRESS SPECIALIST

CCNA – Cisco Certified Network Associate → IIUC – Implementing Cisco IOS Unified Communications → IIUC2 – Implementing Cisco IOS Unified Communications – Exam IIUC2 642-145 → LCSE – Cisco Lifecycle Services Express – Exam LCSE 650-393 → Cisco IP Communication Express Specialist

IP CONTACT CENTER EXPRESS SPECIALIST

Inga förkunskaper krävs → UCCXD – Unified Contact Center Express & unified IP IVR – Exam UCCX 642-164 → Cisco IP Contact Center Express Specialist

IP COMMUNICATIONS DESIGN SPECIALIST

CCDA – Cisco Certified Design Associate → UCAD – Cisco Unified Communications Architecture & Design – Exam UCAD 642-415 → QOS – Implementing Cisco QoS – Exam QOS 642-642 → LCSAUC – Cisco Lifecycle Services for Adv. Unified Communic. – Exam LCSAUC 650-251 → Cisco IP Communication Design Specialist

RICH MEDIA COMMUNICATION SPECIALIST

CCNA – Cisco Certified Network Associate → ICRMC – Implem. Cisco IP Video Conference Rich Media Com. – Exam CRMC 642-481 → CVOICE – Cisco Voice Over IP – Exam CVOICE 642-436 → Cisco Rich Media Communication Specialist

UNITY DESIGN SPECIALIST

CCDA – Cisco Certified Design Associate → IUM – Implementing Cisco Unified Messaging → CUDN – Cisco Unity Design & Networking – Exam CUDN 642-072 → Cisco Unity Design Specialist

UNITY SUPPORT SPECIALIST

Inga förkunskaper krävs → IUC – Implementing Cisco Unity Connection – Exam IUC 642-262 → Cisco Unity Support Specialist

UNIFIED PRESENCE SPECIALIST

Inga förkunskaper krävs → PRSDI – Cisco Unified Presence Design & Implementation – Exam PRSDI 642-181 → Cisco Unified Presence Specialist

TELEPRESENCE INSTALLATIONS SPECIALIST

Inga förkunskaper krävs → ITI – Implementing Cisco TelePresence Installations – Exam ITI 642-188 → Cisco TelePresence Installations Specialist

TELEPRESENCE SOLUTIONS SPECIALIST

CCNA – Cisco Certified Network Associate → ITS – Implementing Cisco TelePresence Solutions – Exam ITS 642-185 → PITS – Physical Installation of Cisco TelePresence Systems → Cisco TelePresence Solutions Specialist

ADVANCED IP COMMUNICATION SALES SPECIALIST

CSE – Cisco Sales Expert → AUCAM – Advanced Unified Communications AM – Exam AUCAM 646-230 → LCSE – Cisco Lifecycle Services Express – Exam LCSE 650-393 → Cisco Advanced IP Communication Sales Specialist

IP COMMUNICATION EXPRESS SALES SPECIALIST

CSE – Cisco Sales Expert → UCXAM – Unified Communications Express AM – Exam UCXAM 646-223 → LCSE – Cisco Lifecycle Services Express – Exam LCSE 650-393 → Cisco IP Communication Express Sales Specialist

Wireless LAN

ADVANCED WIRELESS LAN DESIGN SPECIALIST

CCDA – Cisco Certified Design Associate → CWLF – Cisco Wireless LAN Fundamentals → CWLAT – Cisco Wireless LAN Advanced Topics – Exam AWLANSE 642-681 → Cisco Advanced Wireless LAN Design Specialist

ADVANCED WIRELESS LAN FIELD SPECIALIST

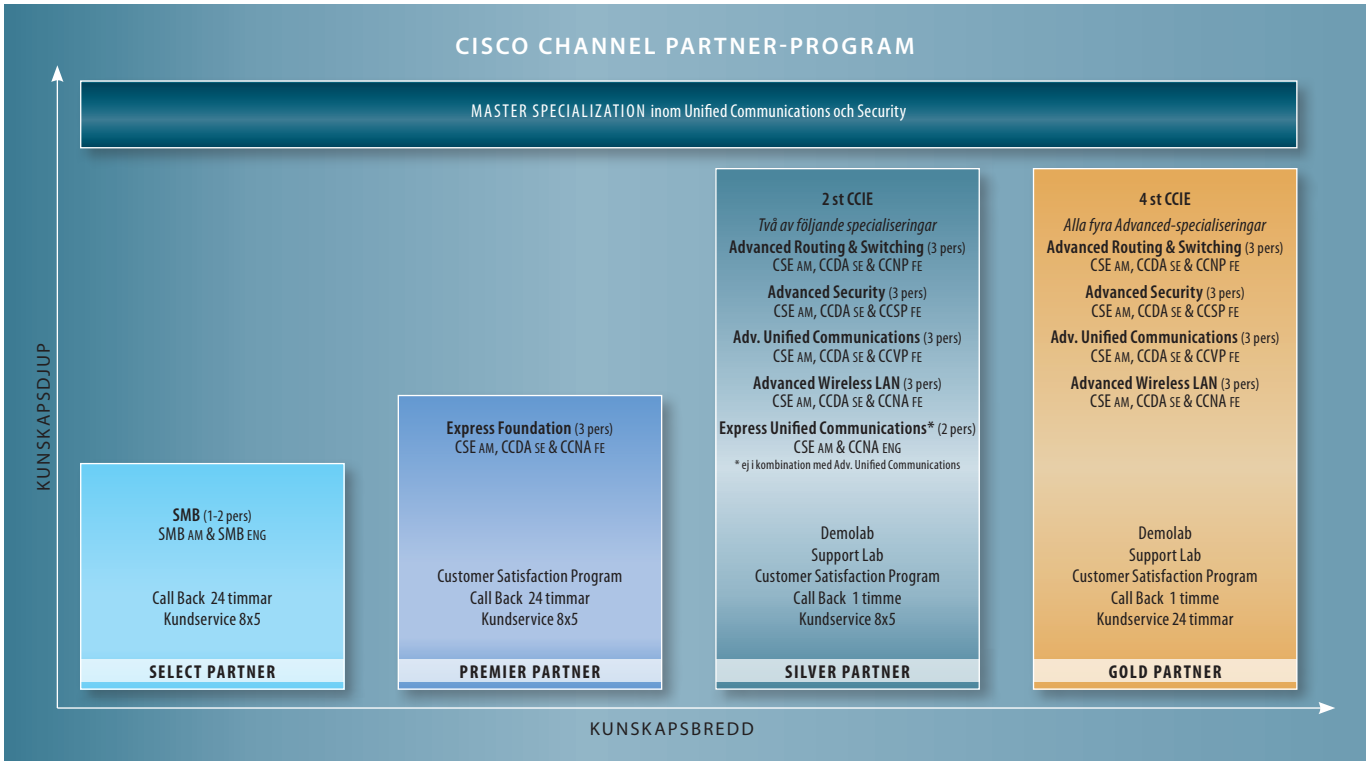
CCNA – Cisco Certified Network Associate → CWLF – Cisco Wireless LAN Fundamentals → CWLAT – Cisco Wireless LAN Advanced Topics – Exam AWLANFE 642-631 → Cisco Advanced Wireless LAN Support Specialist

ADVANCED WIRELESS LAN SALES SPECIALIST

CSE – Cisco Sales Expert → WLAS – Wireless LAN Advanced Sales – Exam AWLANAM 646-671 → Cisco Advanced Wireless LAN Sales Specialist

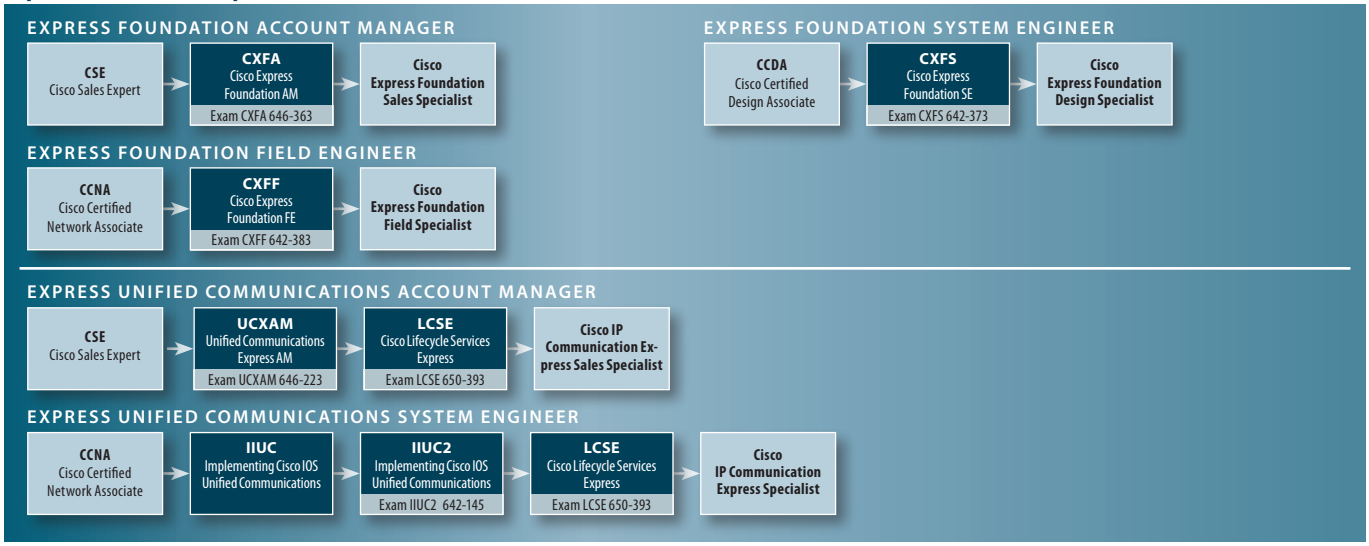
Cisco Channel Partner-program

Ciscos program och certifieringar ger deras Channel Partners unika möjligheter att differentiera sig och skapa en tydlig kundprofil. Det finns fyra certifieringsnivåer som visar kunskapsbredden hos respektive Channel Partner; Select Partner, Premier Partner, Silver Partner och Gold Partner. Channel Partner-programmet har dessutom fyra specialiseringsnivåer som visar kunskapsdjupet; Entry, Express, Advanced och Master. Förutom kunskapskravet för varje certifieringsnivå finns även andra krav på till exempel support, telefonservice, eget lab och utvecklingsprocesser. Modellen nedan visar hur de olika programmen skiljer sig åt.

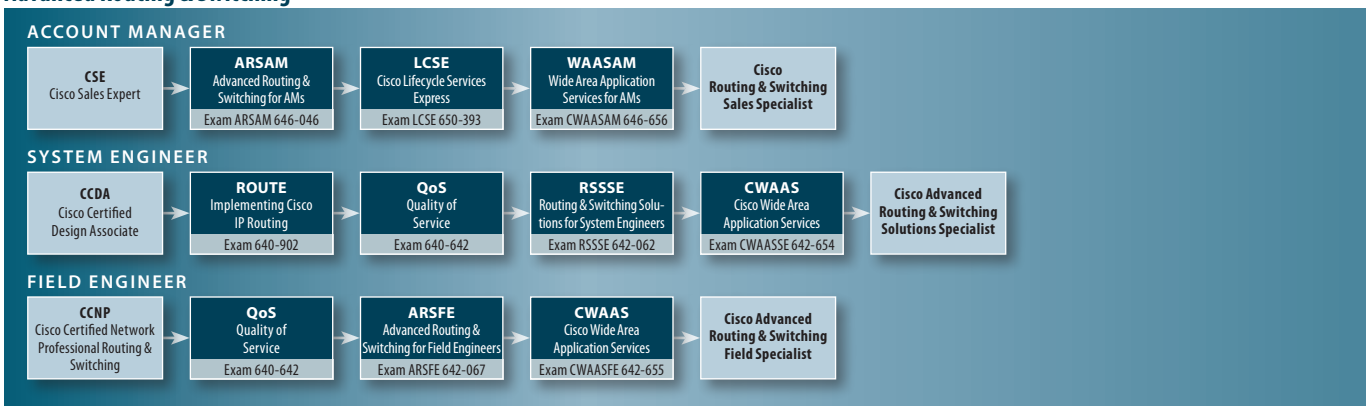


SMB

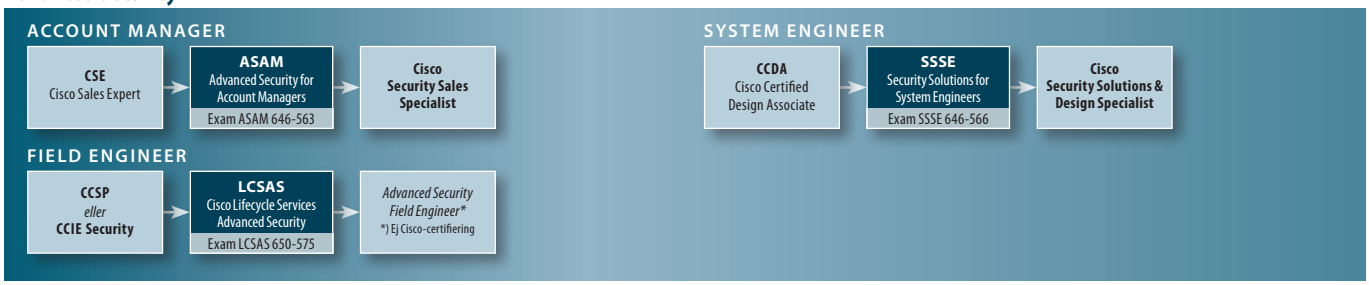
Express Foundation & Express Unified Communications



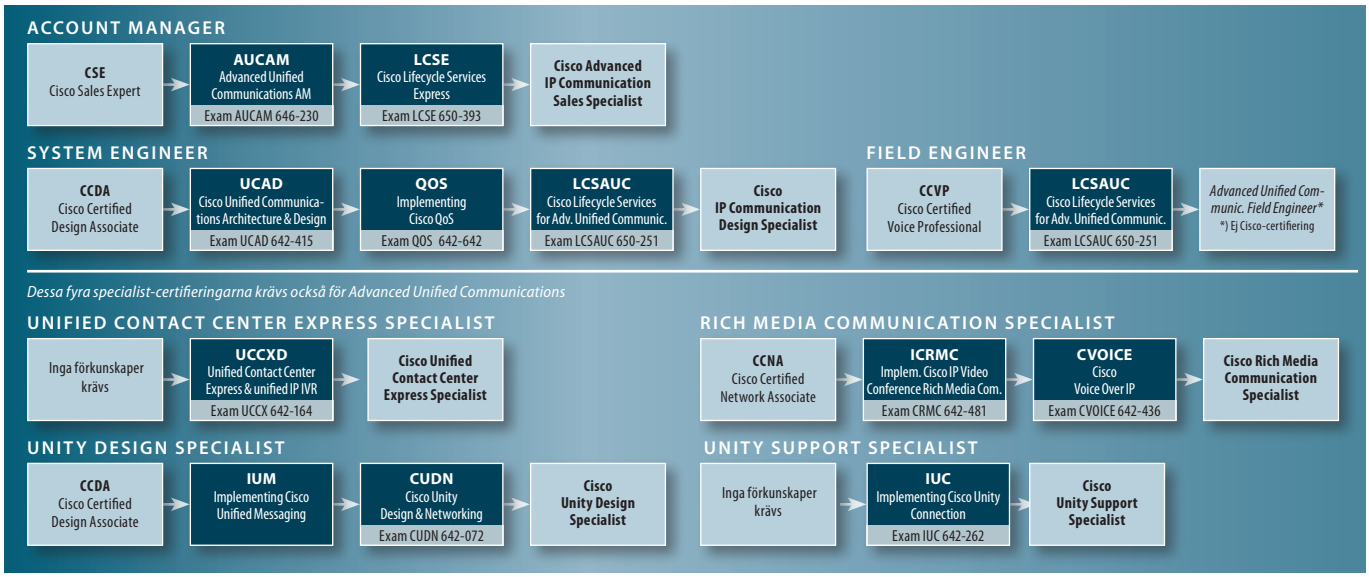
Advanced Routing & Switching



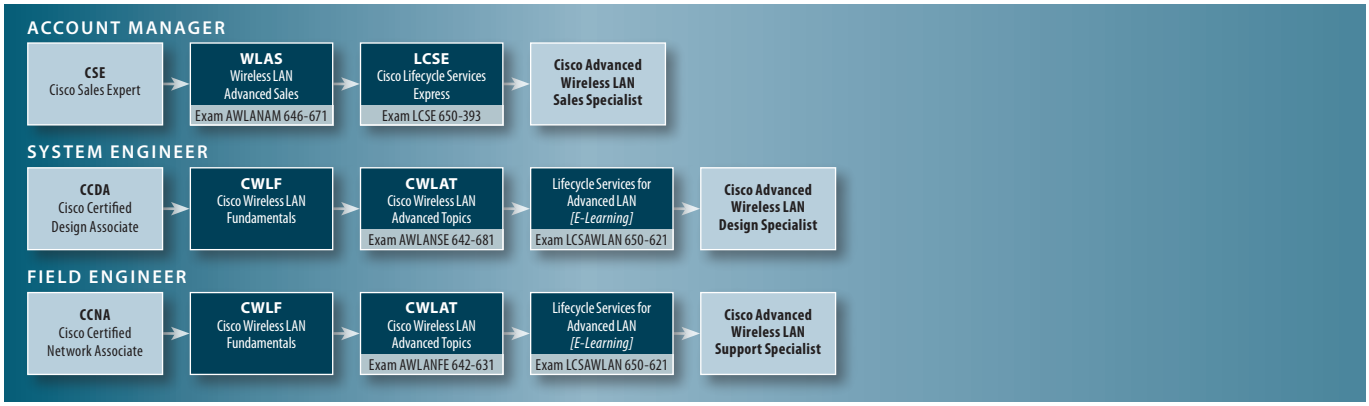
Advanced Security



Advanced Unified Communications



Advanced Wireless LAN



Cisco utbildningar

Fast Lanes Cisco-utbildningar är lika många och mångfacetterade som Ciscos teknologi. Vi ser till att ha den utbildning du behöver för ditt företag och dina anställda. Vi kan leverera den som fasta kurser eller som specialanpassade. I Sverige eller utomlands.

KOMPLETT UTBUD

Vi erbjuder ett komplett utbud av Ciscos utbildningar, allifrån grundnivå till de senaste specialist-utbildningarna. Med marknadens bästa lärare kan vi försäkra er om att vi är förberedda för de utmaningar som Ciscos utveckling innebär. Vi är också fullt införstådda med de krav som Cisco certifieringar ställer på oss som utbildare och på er som elever.

SKRÄDDARSYDDA KURSER

Som Cisco Learning Solutions Partner kan vi skräddarsy Cisco-utbildningar till våra kunder. Vi kan sätta samman den utbildning som bäst motsvarar ditt företags behov, oavsett om det handlar om grundutbildningar eller specialist-utbildningar. Med hjälp av våra mobila lab kan vi dessutom leverera kursen där du vill, hos er eller hos oss eller nästan var som helst. Allt vi behöver är en Internet-uppkoppling. Hör av er om era behov så återkommer vi med en genomarbetad offert.

SVERIGES BÄSTA INSTRUKTÖRER

Vi har Sveriges bästa instruktörer. De ser till att hålla oss på tårna vad gäller kursutbud och utveckling. De ser också till att vi kan leverera Sveriges bästa utbildningar. Vi är dessutom måna om att ständigt utveckla oss och våra lärare. Därför är det viktigt för oss att våra lärare befinner sig på marknaden och själva arbetar som tekniker när de inte är hos oss och utbildar våra elever. Det är viktigt att inte förlora fingertoppskänslan av vad som händer.

OCH VÄRLDENS BÄSTA

Genom våra systerföretag över hela världen kan vi dessutom lova att vi har tillgång till världens bästa lärare. 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 i alla regioner världen över.

AVANCERADE LAB

Vi vet att mycket av vår utbildning 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 utbildning ni söker.

LEARNING CREDITS

Självklart är vi en del av och hanterar Ciscos Learning Credits. Du kan betala för all Cisco-utbildning med Cisco Learning Credits.

ONLINE LEARNING CENTER

Vi har även ett Online Learning Center. På *fastlane-community.com* hittar du både fria utvärderingstester, forum och kunskapsbank. Du kan själva 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 ser till att du får korrekt information.

Routing & Switching

Unified Communications

TelePresence

MeetingPlace

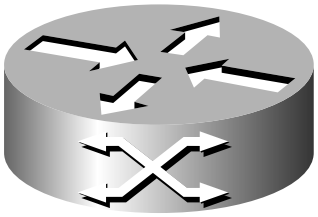
DMS

Data Center & Virtualization

Security & VPN

Wireless LAN

Routing- och switching-kurserna är basen för vår verksamhet sedan 15 år tillbaka. I en tid med fler och mer avancerade tjänster i nätet ökar kraven på bandbredd exponentiellt vilket leder till ökade krav på kvalitet och skalbarhet såväl som enkelhet i hanteringen av våra nät. De nya kurserna inom CCNP såväl som de övriga kurserna inom Routing och Switching ger dig den kompetens som behövs för att inte bara följa utvecklingen utan också ligga i framkant.



Interconnecting Cisco Network Devices Part 1 (ICND1)

Duration 5 days **Price** 19.900 SEK

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 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)

Duration 5 days **Price** 19.900 SEK

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.

Interconnecting Cisco Network Devices: Accelerated (CCNAX)

Duration 5 days **Price** 29.900 SEK

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 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)

Duration 5 days **Price** 24.900 SEK

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 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)

Duration 5 days **Price** 24.900 SEK

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 switching 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.

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)

Duration 5 days **Price** 24.900 SEK

This is a five-day course designed to help network professionals hone 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. The course is designed to 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. The course will 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. At the end of the course, the learners will have increased their skill level and developed as set of best practices based on their own and other learners' experiences that they can take back to their organizations. ***Prerequisite:*** The Student should have a CCNA or equivalent and the knowledge and skills from ROUTE and SWITCH.

CCNP Power Workshop (CCNPPW)

Duration 10 days **Price** 58.900 SEK

The CCNP Power Workshop provides accelerated preparation for Cisco certification in the shortest possible time. Training is intensive, with instruction ranging up to twelve hours daily on demand. The CCNP Power Workshop comprises the following courses: Implementing Cisco IP Routing (ROUTE), Implementing Cisco IP Switched Networks (SWITCH), Troubleshooting and Maintaining Cisco IP Networks (TSHOOT). ***Prerequisite:*** The Student should have a CCNA or equivalent.

Cisco Professionals Troubleshooting (CPT)

Duration 5 days **Price** 24.900 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 the knowledge and skills equivalent to CCNP Routing & Switching.

Routing & Switching Solutions for System Engineers (RSSSE)

Duration 2 days **Price** 11.900 SEK

The Routing and Switching Solutions for Sytems Engineers course teaches learners how to plan activities that provide a technical description of solutions presented to customers and point out specific advantages of selecting Cisco solutions as part of a System Engineer and Field Engineer team effort. It will prepare the learner to develop a detailed network design for the customer`s advanced routing and switching needs, including Border Gateway Protocol (BGP), Multiprotocol Label Switching (MPLS), Quality of Service (QoS), High Availability (HA), and IP version 6 (IPv6). ***Prerequisite:*** The Student should have a CCDA or equivalent.

Advanced Routing & Switching for Field Engineers (ARSFE)

Duration 3 days **Price** 19.900 SEK

The course offers Field Engineers (Primarily in Channel Partners) a 2007 update on routing and switching products; helps develop FE abilities on network implementation and operational tasks; content includes applications for configuring and managing high availability features, MPLS, and VPN. The content consist of Advanced Capabilities of Cisco Routers and Switches, Network Management, Implement High Availability and MPLS Implementation. ***Prerequisite:*** The Student should have the knowledge and skills equivalent to CCNP.

CCIE Routing & Switching Theorie Workshop (CCIET)

Duration 5 days **Price** 24.900 SEK

Recertification of the CCIE-Status is needed after two years. This 5-day Workshop will refresh and enhance your knowledge focusing on the key areas required in preparation for the CCIE Routing and Switching Certification/Recertification. This course provides accelerated preparation for all relevant subjects in the shortest possible time. ***Prerequisite:*** The Student should have the knowledge and skills equivalent to CCIE.

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** 29.900 SEK

The following topics are covered in this workshop: Frame-Relay, Cisco Catalyst 3550/3560 Essentials, IGPs, 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)

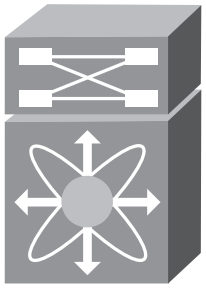
Duration 5 days **Price** 34.900 SEK

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.

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

Ciscos Data Center-satsning har varit otroligt framgångsrik. Nexus konceptet är ett framtidssäkert och skalbart koncept som hanterar högre hastigheter flera protokoll som FCoE, serverpark, virtualisering, datalagring och Multi-Tenancy. Med UCS blir konceptet ett av de starkaste på marknaden.
Läs mer om NetApp på sid 42.



Data Center Architectural Overview (DCAO)

Duration 1 day **Price** 5.900 SEK

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 of the features and benefits available in the Cisco Data Center. The course provides an overview of Cisco Nexus 1000v, 2000, 4000, 5000, 7000 and UCS for Network Architects and key decision makers that need to identify and position Cisco solutions within the Data Center. ***Prerequisite:*** An understanding of Data Center LAN and SAN will be an advantage.

Cisco Nexus Overview Workshop (CNOW)

Duration 1 day **Price** 5.900 SEK

This Workshop helps you in getting an understanding on how to successfully make the most of the new Cisco Nexus switch family technologies to optimize the scalability, performance and efficiency of your Data Center. ***Prerequisite:*** The Student should have a CCNA or equivalent.

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

Duration 2 days **Price** 14.900 SEK

This highly focused, 2-day course provides a detailed understanding of the emerging features and protocols supported by the Nexus 1000V product family. The Cisco Nexus 1000V Series Switches are virtual machine access switches that are an intelligent software switch implementation for VMware vSphere environments running the Cisco NX-OS operating system. Operating inside the VMware ESX hypervisor, the Cisco Nexus 1000V Series supports Cisco VN-Link server virtualization technology to provide: Policy-based virtual machine (VM) connectivity; Mobile VM security and network policy and Non-disruptive operational model for your server virtualization, and networking teams. ***Prerequisite:*** The Student should have intermediate knowledge of Routing, Switching, Data Center Architecture and Protocols, and Server Virtualization.

Implem. DCN using the Cisco Nexus 5000 Switch & 2000 Fabric Extender (IDCN5K)

Duration 3 days **Price** 19.900 SEK

This highly focused, 3-day course provides a detailed understanding of Cisco's converged SAN/LAN network architecture using Fibre Channel over Ethernet (FCoE) and Data Center Bridging (DCB) protocols on the Cisco Nexus 5000 and Nexus 2000 platform. You will learn about the hardware and software architecture of the Nexus 5000 and 2000 switches, and how this architecture deploys congestion management and other QoS characteristics in the FCoE/DCE networks. This course covers FCoE and DCB/DCE protol design guidelines and configuration details for Cisco's virtualized DCB network enviroment.You will learn how to deploy a highly available and scalable virtualized converged networking infrastructure using Nexus 5000 and Nexus 2000 series switches in switch mode or NPV/NPIV mode of operation using FC, Ethernet and virtual Port channeling, including RSTP and FSFP high availability implementation considerations. It discusses several design options for modern Data Center access layer architecture, integration of Server Virtualization (ESX), Blade Server and Rack Server into the DC network topology. In addition, QoS, Management, and Monitoring tools for these type of enviroments are discussed. ***Prerequisite:*** The Student should have intermediate knowledge of Routing, Switching, Data Center Architecture and Protocols, and Server Virtualization.

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

Duration 3 days **Price** 19.900 SEK

This three-day class focuses on the implementation, configuration and management of the Nexus 7000 switch and NX-OS software platforms. The courseware includes an effective mix of instructor-led presentations coupled with detailed lab exercises that are designed to build immediate awareness of the features and benefits of this high-availability product set. Upon completing this class, you will be able to install and troubleshoot the Cisco Nexus 7000 Data Center Switch and configure using the Nexus Operating System (NX-OS). ***Prerequisite:*** The Student should have intermediate knowledge of Routing, Switching, Data Center Architecture and Protocols, and Server Virtualization.

Fiber Channel over Ethernet Overview (FCOE)

Duration 2 days **Price** 14.900 SEK

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 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.

Advanced Catalyst 6500 Switching (CAT6KS)

Duration 5 days **Price** 26.900 SEK

The course enables customers to build scalable, reliable, and intelligent Data Center and Campus networks using Catalyst 6500 Series switches with updated content that aligns with the current Catalyst 6500 enterprise solutions. CAT6KS also provides advanced switching training to supplement the SWITCH CCNP Class and provides a design-concept module focused on the Catalyst 6500 features that differentiate the Catalyst 6500 as a solution for next-generation Data Center and Campus networks. ***Prerequisite:*** The Student should have the knowledge and skills equivalent to CCNP.

Catalyst 6500 & Cisco 7600 Ser. Routers Firewall Services Module Deploym. (FWSMD) Duration 1 day Price 5.900 SEK

In this course the Students will learn how to configure and initialize the 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; Experience of configuring Cisco IOS Software, CCNA Certification or similar knowledge, Basic knowledge of Windows Operating systems, and Familiarity with Network and Security Concepts.

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

Duration 5 days **Price** 28.900 SEK

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. 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 CCNA or CCIE Routing and Switching certification status or equivalent knowledge.

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

Duration 5 days **Price** 28.900 SEK

This is a five-day instructor-led course with lab exercises that are intended to prepare Students for the DCNI-2 certification exam. The course schedule consists of approximately 50 percent lecture and 50 percent lab exercises. The DCNI-2 Delivery Lab is accessed using a remote access procedure coupled with a GUI application that provides connectivity to all lab devices. The Student will learn to deploy, configure and troubleshoot data center networks using the Cisco Nexus Platform Family including the Cisco Nexus 7000, 5000 and 2000. The Stundent will also learn to; Understand the enhancements associated with the Nexus Operating System (NX-OS), Understand Product Placement for the Cisco Nexus Platform Family, and Describe the benefits of Unified I/O and Unified Fabric Architectures. ***Prerequisite:*** The Student should have a CCNA or CCIE Routing and Switching certification status or equivalent knowledge.

Data Center Network Infrastructure Design (DCNID)

Duration 5 days **Price** 28.900 SEK

This 5-Day course enables the Student to create a Data Center network designs that optimizes availability, scalability, performance, and security, using the NEXUS Products, Catalyst 6500, Catalyst 4948, Firewall Services Module, Intrusion Detection Services Module, and Network Analysis Module. ***Prerequisite:*** The Student should have a CCDA or equivalent knowledge.

Designing Data Center Application Services (DCASD)

Duration 5 days **Price** 28.900 SEK

This course will teach you how to 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 should have knowledge of Catalyst 6500 architecture and operations, Common web application protocols, Common file system protocols, and Traffic control and monitoring protocols.

Implementing Data Center Application Services (DCASI)

Duration 5 days **Price** 28.900 SEK

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 should have knowledge of Catalyst 6500 architecture and operations, Common web application protocols, Common file system protocols, and Traffic control and monitoring protocols.

Implementing Cisco Storage Networking Solutions (ICSNS)

Duration 5 days **Price** 27.900 SEK

This course enables the Student to describe and configure the hardware and software components of the Cisco MDS 9000 product family, focusing on key technologies and features that apply to departmental, mid-range, and enterprise SANs. The ICSNS course combines MDSCT and CMSE into a single course, updated for SAN-O 2.1, 3.0, and with basic networking content added. ***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 (IASNS)

Duration 5 days **Price** 28.900 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. The Course is part of CCIE Storage Networking Certification and Cisco Data Center Storage Networking support Specialist Certification. ***Prerequisite:*** The Student should have attended ICSNS.

Designing Cisco Storage Networking Solutions (DCSNS)

Duration 5 days **Price** 28.900 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.

Cisco MDS 9000 Technical Pre-Sales Training (CMDSPS)

Duration 2 days **Price** 11.900 SEK

This course gives a extensive overview of the present Cisco MDS technologies, Virtual SANs (VSANs), Switch Port Analyzer (SPAN) and iSCSI Solutions and installations. We focus in particular on the differencies between Cisco and their competitors in Architecture, Management and Implementation. ***Prerequisite:*** The Student should have basic understanding of data storage.

Cisco Mainframe Storage Solutions (CMSS)

Duration 2 days **Price** 14.900 SEK

This course is designed for storage networking professionals who need to implement FICON storage networks using the Cisco MDS 9000 switches. The course covers storage & channel terminology in a mainframe environment, along with detailed coverage of FICON protocols. Upon completion of the class, the Students will be able to fully configure a MDS 9000 switch for FICON support, including basic configuration steps, CUP configuration, cascaded directors, and Fibre Channel-over-IP (FCIP) support. ***Prerequisite:*** The Student should have attended ICSNS.

CCIE Storage Networking Power Workshop (CCIESAN)

Duration 10 days **Price** 67.900 SEK

This ten-day Power Workshop is an intensive training program for future Cisco MDS 9000 experts and teaches the Students a deep technical understanding for the implementation, the configuration and the management of the Cisco MDS 9000 series. The Workshop is the first step towards the CCIE Storage Networking certification. It contains the topics of the following courses in a comprehensive form: DCSNS, ICSNS, IASNS. ***Prerequisite:*** The Student should have knowledge in Storage concepts and components and at least two years of working experience in Storage environments.

CCIE Storage Networking Power Lab (CCIESANPL)

Duration 5 days **Price** 49.900 SEK

The CCIE Storage Networking Power Lab is an intensive, hands-on course which prepares the Students for the challenging CCIE Storage Networking Lab exam. ***Prerequisite:*** The Student should have attended CCIESAN and at least two years of working experience in Storage environments.

Data Center Unified Computing Design (DCUCD)

Duration 5 days **Price** 32.900 SEK

The goal of the course is to enable engineers to design scalable, reliable, and intelligent Data Center Unified Computing solutions based on Cisco Unified Computing System (UCS), Cisco Nexus family switches, Catalyst 6500 in Virtual Switching System (VSS), MDS family SAN switches with NX-OS, Data Center Network Manager (DCNM) and MDS Fabric Manager configuration and management applications, VMware server virtualization products, and Linux and Microsoft Windows. ***Prerequisite:*** The Student should have CCNA and VCP certifications, knowledge of MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level and attended DCSNS and DCNID.

Data Center Unified Computing Implementation (DCUCI)

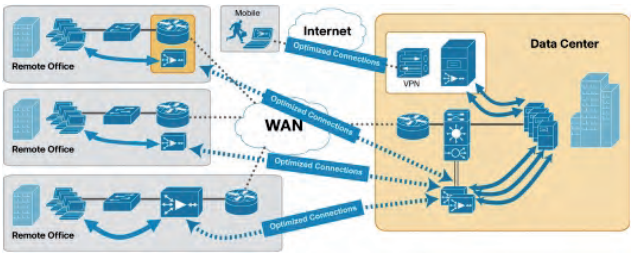
Duration 5 days **Price** 32.900 SEK

The Cisco Data Center Unified Computing Implementation course is designed to teach Students knowledge of the fundamentals of the Cisco Unified Compute System and the ability to implement a virtualized Data Center environment. In addition the Student also learns on how to implement the Cisco Unified Computing System (UCS) in an enterprise data center routing and switching infrastructure with the next-generation Cisco Nexus product family. ***Prerequisite:*** The Student should have CCNA and VCP certifications, knowledge of MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level and attended DCSNS and DCNID.

Cisco Wide Area Application Services (CWAAS)

Duration 5 days **Price** 28.900 SEK

This is a five-day course covering the WAAS v4.1 "Davis" product, especially for channel SEs and FEs. WAAS Mobile is also covered. This is a fundamentals course that can stand-alone for knowledge and skill content. It can also be foundational as a prerequisite for more advanced Design and Troubleshooting courses. ***Prerequisite:*** The Student should have CCNA with CCNP strongly recommended; SEs should have CCDA. Background in TCP and exposure to layer 7 protocols also recommended.



Implementing the ACE Service Module (ACESM)

Duration 4 days **Price** 23.900 SEK

This is a four-day, instructor-led, lecture / lab course that 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 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)

Duration 4 days **Price** 23.900 SEK

This is a four-day, instructor-led, lecture / lab course. You will learn how to deploy and configure intelligent network services using the Catalyst 6500 Application Control Engine (ACE), the next generation form factor of ACE, GSS and AVS. This course covers all of the key features of the ACE products, including resource virtualization and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features like application-layer inspection and fixups. The focus is on enabling the Student to properly position the ACE products in the network for optimizing 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)

Duration 4 days **Price** 24.900 SEK

This is a four-day, instructor-led, lecture / lab course teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Appliance. This course covers all of the key features of the ACE 2.0 software, including resource virtualization and management, server load balancing (Layer 2-4 and Layer 7), SSL termination and offload, and security features like application-layer inspection and fixups. ***Prerequisite:*** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, and Server load-balancing.

ACE XML Gateway Operations and Configuration (AXGOC)

Duration 2 days **Price** 12.900 SEK

In this course you will learn how to deploy and configure the Application Control Engine (ACE) XML Gateway appliance. It covers all of the key features of the ACE XML Gateway, including Application Security, Message Level Security and protocol transformation. ***Prerequisite:*** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, and N-tier application architecture.

Global Site Selector Operation & Configuration (GSSOC)

Duration 3 days **Price** 19.900 SEK

This is a three-day, instructor-led, lecture / lab course that teaches you how to design in and deploy the Cisco Global Services Switch (GSS) 4492R to load balance multiple Data Centers. Students will learn how to design, deploy, and configure advanced network load balancing services using the GSS with the Cisco GSS Version 1.3 software.

Prerequisite: The Student should have knowledge of TCP/IP protocol, DNS background, and Server load-balancing.

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

VMWARE VSPHERE & CISCO NEXUS 1000V INTEGRATION

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

Duration 4 days **Price** 23.900 SEK

This highly focused, four-day course provides a detailed understanding of the features and protocols supported by the Nexus 1000V product family and explores new features in VMware® vCenter Server and ESX™/ESXi, as well as how to upgrade an ESX 3.X environment. The Cisco Nexus™ 1000V Series Switches are virtual machine access switches that are an intelligent software switch implementation for VMware vSphere environments. Operating inside the VMware ESX hypervisor, the Cisco Nexus 1000V Series supports Cisco VN-Link server virtualization technology to provide: Policy-based virtual machine (VM) connectivity, Mobile VM security and network policy, and Non-disruptive operational model for your server virtualization and networking teams.

Prerequisite: The Student should have intermediate knowledge of switching, routing and data center architectures and protocols, as well as an understanding of server virtualization techniques. Recommended Completion of VMware Infrastructure 3: Install and Configure, or equivalent experience.

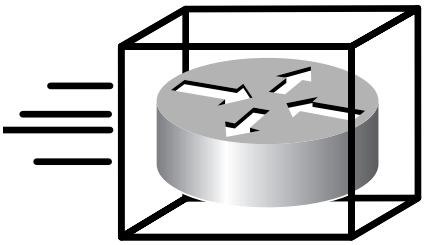
Install, Config & Manage vSphere 4 on Nexus 1000V DC Networks (ICMNDC)

Duration 2 days **Price** 29.900 SEK

This highly focused, five-day course provides a detailed understanding of the emerging features and protocols supported by the Nexus 1000V product family and installation configuration, and management of VMware® vSphere™. The Cisco Nexus™ 1000V Series Switches are virtual machine access switches that are an intelligent software switch implementation for VMware vSphere environments. Operating inside the VMware ESX hypervisor, the Cisco Nexus 1000V Series supports Cisco VN-Link server virtualization technology to provide:Policy-based virtual machine (VM) connectivity, Mobile VM security and network policy, and Non-disruptive operational model for your server virtualization and networking teams. ***Prerequisite:*** The Student should have administration experience on Microsoft Windows or Linux operating systems. Course attendees should possess an intermediate knowledge of switching, routing and data enter architectures and protocols. Students who have already attended 3.X VMware training should take the "What's New" class.

CISCO NETWORK DESIGN

I dagens komplexa nätverk som skall hantera många olika protokoll, tjänster och tekniska utmaningar krävs det kunskap om de möjligheter som finns att utnyttja. Ciscos nya designkurser täcker alla de områden man behöver ha kunskap om för att designa skalbara och framtidssäkra nätverk från de enklaste LAN till Bordeless Networks.



Designing for Cisco Internetwork Solutions (DESGN)

Duration 5 days **Price** 19.900 SEK

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.

Designing Cisco Network Service Architectures (ARCH)

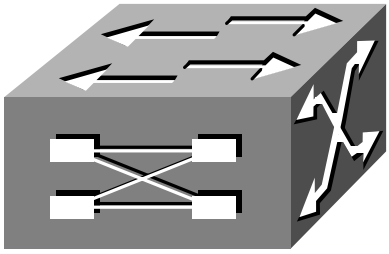
Duration 5 days **Price** 19.900 SEK

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 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.

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

Kraven på våra operatörers leveransmöjlighet ökar ständigt. Fler tjänster i nätet, ökad bandbredd, högre hastighet och bättre säkerhet. Med vårt kurssortiment, kompetenta instruktörer och ett nära samarbete med Cisco kan vi hjälpa till att öka kompetensen om nya teknikområden även i operatörsledet.



Implementing Cisco Quality of Service (QOS)

Duration 5 days **Price** 24.900 SEK

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 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.

Configuring BGP on Cisco Routers (BGP)

Duration 5 days **Price** 24.900 SEK

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 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.

Configuring Routers for IS-IS (CISIS)

Duration 3 days **Price** 17.900 SEK

The course moves from an overview of IS-IS technology, its structures and protocols as well as configuration examples to in-depth information on Integrated IS-IS. The content consists of; Overview of IS-IS Technologies, Structures and Protocols, In-Depth Details of Integrated IS-IS, IS-IS Deployment in Different WAN Environments, Intregrated IS-IS Routing Designs, and IS-IS Lab Exercises. ***Prerequisite:*** The Student should have experience in designing and deploying IS-IS based OSI solutions and Integrated IS-IS based solutions.

Implementing Cisco MPLS (MPLS)

Duration 5 days **Price** 24.900 SEK

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 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 MPLS Traffic Engineering & other Features (MPLST)

Duration 5 days **Price** 27.900 SEK

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 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.

MPLS Expert Workshop (MEWS)

Duration 5 days **Price** 29.900 SEK

The course is recommended training for Carrier Core Engineers and Enterprise Core Engineers. The course topics include; MPLS Traffic-engineering, MPLS QoS, MPLS Layer 2 VPN systems, Inter AS-MPLS VPNV4 peering, MPLS Multicast, MPLS Security, and MPLS IPV6 on Cisco 7200, 3600 and 2800.

Prerequisite: The Student should have attended MPLS and MPLST.

Implementing Cisco Multicast (MCAST)

Duration 5 days **Price** 27.900 SEK

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 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.

IPv6 Fundamentals, Design & Deployment (IP6FD)

Duration 5 days **Price** 27.900 SEK

This is a five-day, instructor led training course that 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. The goal of this course is to prepare the learner for transitioning to IPv6 based networks. IP6FD encompasses design considerations, security considerations, configuration principles, configuring IOS devices for IPv6 and IPv6 transition mechanisms. Throughout the course Students will be presented justification for the principles, concepts and practices contained in each lesson. This 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.

Designing Service Provider Cisco QoS (SPQOS)

Duration 4 days **Price** 22.900 SEK

This four-day leader-led class enables learners to use the technology principles of basic Quality of Service, and Quality of Service with Multi Protocol Label Switching (MPLS), to implement advanced features and functions. The focus of the course is on best practices for implementing QoS from the Service Providers perspective, and strategies for deploying some of those features and functions in an existing SP environment. ***Prerequisite:*** The Student should have a CCNA certification and have attended BSCI or ROUTE. It is also strongly recommended that the learner be familiar with MPLS and QoS concepts.

Cisco 12000 Series Technical Product Training (GSR)

Duration 3 days **Price** 22.900 SEK

This course teaches Test Engineers how to perform Network Operations, Design and deploy 12000 series routers. The Students will learn; Network Roles and System Overview, CLI Fundamentals, Line Card Hardware, Cisco Express Forwarding (CEF), Class of Service Features, Features and Applications, and Troubleshooting.
Prerequisite: The Student should have knowledge of Internetworking fundamentals, basic routing protocol concepts, Cisco IOS CLI software configuration, ICND experience, BSCI experience preferred and should have attended ICDN2.

CCIE Preparation Lab Service Provider (CCIESP)

Duration 10 days **Price** 59.900 SEK

Prerequisite: The Student should have completed the CCIE Service Provider written exam.

CISCO NETWORK MANAGEMENT

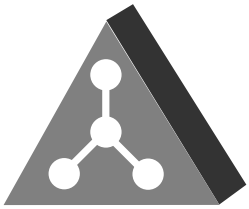
Implementing CiscoWorks LMS (CWLMS)

Duration 5 days **Price** 27.900 SEK

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, 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 IRONPORT SECURITY

Nu vet alla att Cisco IronPort är en succe. Marknadsledare på mail-tvätt och webbsäkerhet. Vi levererar IronPort training sedan tre år tillbaka med instruktörer med erfarenhet från de största och mest komplexa implementeringarna i Norden och Europa. Lär dig utnyttja din IronPort lösning maximalt.



Securing Your Email with IronPort C-Series (SYEPW)

Duration 3 days **Price** 20.900 SEK

This three-day training course provides a thorough foundation for how to successfully install, configure, and administer Cisco IronPort email security appliances. Attendees receive indepth instruction on the most commonly used product features. Extensive lab exercises provide attendees with critical hands-on experience working with advanced features of the IronPort email security appliance. Attendees gain working knowledge of how to use the IronPort appliance to successfully manage and troubleshoot email traffic entering and leaving the enterprise network.Attendees will also learn about advanced Internet email concepts and receive an overview of other product features that can be used for more customized configurations. ***Prerequisite:*** The Student should have solid knowledge of TCP/IP fundamentals, including IP adressing, static IP routing and DNS. Furthermore the Student hould have experience with Internet-based messaging, including SMTP and MIME and strong familiarity with AsyncOS CLI and GUI configuration.

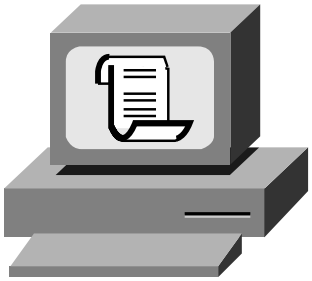
Securing Your Web with IronPort S-Series (SYW)

Duration 2 days **Price** 14.900 SEK

This comprehensive, two-day training course covers how to install, configure, operate and maintain the S-Series. The course consists of hands-on labs, demos and presentations to help students learn technical aspects of the S-Series Web Security Appliances. After successful completion of the course, the participant will be able to describe, configure, administer, and troubleshoot: Policy Framework, Decryption Policies, Routing Policies, Access Policies, IronPort Data Security Policies, Data Loss Prevention Policies, Authentication, URL filtering, Predefined URL Categories, Custom URL Categories, Time Based URL filters, Web reputation filtering, The DVS Anti-malware Engine, Webroot, McAfee, HTTPS inspection, Data Security and Data Loss Prevention, and Authentication.

Prerequisite: The Student should have knowledge of TCP/IP services, including DNS, SSH, FTP, SNMP, HTTP and HTTPS. Furthermore the Student should have familiarity with IP routing and Cisco IronPort S-Series Overview.

Med växande tjänsteutbud ökar säkerhetskraven på nätverket. Erfarna instruktörer med stor praktisk erfarenhet leder kurserna som behandlar brandväggar, perimetersäkerhet, VPN, SSLVPN, IPS, Mars, NAC, osv. Vi utbildar på hela Ciscos säkerhetskoncept. Gärna med din miljö som förlaga.



Implementing Cisco IOS Network Security (IINS)

Duration 5 days **Price** 24.900 SEK

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-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 (SNRS)

Duration 5 days **Price** 24.900 SEK

This five-day course is aimed at providing network specialists with the knowledge and skills needed to secure Cisco IOS Routers and Switches. Successful delegates will be able to secure the network environment using existing Cisco IOS and CatOS security features, configure the 3 Primary components of the Cisco IOS Firewall Feature set (Context-Based Access Control (CBAC), Intrusion Prevention, and Authentication Proxy), implement Secure Tunnels (VPNs) using IPSec Technology and implement basic Access Switch Security. In addition, the Student will complete a security audit using functions embedded in Cisco Security Device Manager. ***Prerequisite:*** The Student should have CCNA certification, familiarity with networking and security terms and experience in configuring Cisco IOS software.

Securing Networks with ASA Fundamentals (SNAF)

Duration 5 days **Price** 24.900 SEK

This is a five-day, leader-led, lab-intensive course. The course takes a task-oriented approach to teaching the skills to configure, operate, and manage Cisco Adaptive Security Appliance product family. The course outlines are: Cisco Security Appliances, Getting Started, Controlling Network Access, Service Policy Rules, and Virtual Private Networks. ***Prerequisite:*** The Student should have CCNA certification, basic knowledge of Windows, familiarity with networking and security terms and experience in configuring Cisco IOS software.

Securing Networks with ASA Advanced (SNAA)

Duration 5 days **Price** 24.900 SEK

The course focuses on the following: configuring the ASA 5505 dual-ISP support, configuring ASA 5505 VLANs, configuring policy NAT, installing and configuring the Cisco Secure Desktop, configuring the security appliance to pass multicast traffic, configuring Layer 7 class maps and policy maps, and initializing the AIP-SSM and CSC-SSM. SNAA also utilizes the graphical user interface instead of the command line interface for explanation and discussions of configuring the ASA. The course takes a task-oriented approach to teaching the skills to deploy, configure, and administer the Cisco ASA using a fictional company's deployment of an ASA which is based on real world scenarios. ***Prerequisite:*** The Student should have attended SNAF.

Cisco ASA Specialist Power Workshop (CASPW)

Duration 5 days **Price** 35.900 SEK

This Power Workshop combines SNAF and SNAA. The five-day course is an intensive course made for Students who have previous knowledge of the content. ***Prerequisite:*** The Student should have CCNA Security certification or equivalent.

Implementing Cisco Intrusion Prevention System (IPS)

Duration 4 days **Price** 19.900 SEK

This course is focused on protection of network systems from intrusions and security threats. The course outlines: Intrusion Prevention Overview, Getting Started with the IPS Command Line Interface, Using the IPS Device Manager, Basic Sensor Configuration, Cisco Intrusion Prevention System Signatures and Alarms Lesson, Signature Engines, Signature Configuration, Tuning the Sensor Using IDM, Alarm Monitoring and Management, Configuring Blocking, Cisco Intrusion Detection System Module, Capturing Network Traffic, Maintaining Sensors, Verifying System Configuration, and Configuring Anomoly Detection, Passive OS fingerprinting, and CSA Collaboration. ***Prerequisite:*** The Student should have CCNA certification, basic knowledge of Windows, familiarity with networking and security terms and experience in configuring Cisco IOS software.

CCSP Power Workshop (CCSPPW)

Duration 15 days **Price** 99.900 SEK

The CCSP Power Workshop provides accelerated preparation for Cisco certification in the shortest possible time. Training is intensive, with instruction ranging up to eleven hours daily on demand. The course consists of SNRS, SNAF, IPS, and MARS. ***Prerequisite:*** The Student should have CCNA Security or equivalent knowledge.

CCIE Preparation Lab Security (CCIESEC)

Duration 10 days **Price** 59.900 SEK

The CCIE Preparation Lab Security is an intensive, hands-on course which prepares the students for the challenging CCIE Security Lab exam. ***Prerequisite:*** The Student should have completed the CCIE Security written exam.

Implementing Cisco NAC Appliance (CANAC)

Duration 3 days **Price** 15.900 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.

Implementing Cisco Security Monitoring, Analysis & Response System (MARS)

Duration 4 days **Price** 23.900 SEK

Cisco Systems offers the Mitigation and Response System (MARS) family of high performance, scalable appliances for threat management, monitoring and mitigation, enabling customers to make more effective use of network and security devices by combining network intelligence, context correlation, vector analysis, anomaly detection, hotspot identification and automated mitigation capabilities. CS MARS solutions empower customers to readily and accurately identify, manage and eliminate network attacks and maintain network compliance. ***Prerequisite:*** The Student should have fundamental knowledge of implementing network security / CCSP or Security CQS and working knowledge of routing and switching / CCNA routing and switching / CCNA.

Implementing Cisco Network Admission Control (NAC)

Duration 3 days **Price** 15.900 SEK

The course focuses on the Network Admission Control The Student will learn how to: Implement Cisco NAC, Understand Cisco NAC, Configure Cisco Secure ACS for Cisco NAC, Configure Cisco Routers for Cisco NAC, Configure Cisco Switches for Cisco NAC, Configure Cisco NAC Agents, and Configure Wireless Access Points for Cisco NAC. ***Prerequisite:*** The Student should have CCSP, basic knowledge of Windows and familiarity with networking and security terminology and concepts.

Mitigating DDoS Using Cisco Guard & Traffic Anomaly Detector (DDOS)

Duration 2 days **Price** 13.900 SEK

This is an introductory end-user course focused on basic deployment and configuration of the Cisco Guard and Cisco Traffic Anomaly Detector distributed denial of service (DDoS) mitigation solutions. Upon completion of the course, learners will be able to recognize threats posed by DDoS attacks, select the appropriate mitigation strategies, and successfully deploy Cisco DDoS mitigation solutions. The course includes hands-on lab practice in setting up and configuring Guard and Detector devices, creating zones and protection policies, and analyzing Guard attack reports for various DDoS attack scenarios.. ***Prerequisite:*** The Student should have attended ICND1, basic understanding of BGP and foundation level knowledge of Cisco security devices and principals.

Advanced IPSec (AIPSEC)

Duration 5 days **Price** 29.900 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 or equivalent and attended IINS.

Designing Perimeter Security (DPS)

Duration 3 days **Price** 14.900 SEK

This course teaches the knowledge and skills needed to design secure network perimeters. The focus is on providing connectivity and access control enforcement solutions on network boundaries. The course identifies, compares and explains NAT technologies (both basic and advanced) and advanced NAT design. It also describes the function, features and limitations of firewalls, and details best practice firewall design guidelines and architectures based on a defined security policy. Guidelines are provided on how to integrate an application with a particular firewall technology and how to design high availability and high performance firewall systems. Advanced ASA features are covered along with the advanced security features of Cisco IOS software when using it in a firewall system design. ***Prerequisite:*** The Student should have attended BSCI or ROUTE, BCMSN or SWITCH, and SNAF.

Security Solutions for System Engineers (SSSE)

Duration 5 days **Price** 24.900 SEK

This course covers claims and evidence identified for the new Advanced Security SE Specialisation. The Security Solutions for Systems Engineers training is part of the Channel SE program. The SSSE course will form the basis for the Security Cisco Qualified Specialist certification. The course will contain: Advanced Security Introduction, Cisco Firewalling, Virtual Private Network, Intrusion Detection / Prevention Systems, Network Admission Control, and Security Management.

Prerequisite: The Student should have CCDA certification or equivalent.

RADIUS & TACACS+ with the Cisco Access Control Server (ACS)

Duration 3 days **Price** 21.200 SEK

This course teaches you how to provide secure access to your network using the Cisco Secure Access Control Server (ACS) 5.0, interoperating with security features in Cisco IOS Software. You will gain a thorough understanding of the operation of the Cisco Secure ACS to control access to network services and devices. Course 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 activities 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 to provide personal experience in configuring Cisco ACS and Cisco network devices. ***Prerequisite:*** The Student should have CCNA certification or equivalent.

Implementing Security Manager for Cisco Networks (SMN)

Duration 3 days **Price** 15.900 SEK

Cisco Security Manager is a powerful but easy to use solution to centrally provision all aspects of security policies for Cisco firewalls and VPN's. Cisco Security Manager can also cross launch to software, which is provided to manage Intrusion Prevention Systems (IPS). Management of IPS will be further integrated into Cisco Security Manager in a following release. Cisco Security Manager is suitable for managing small networks consisting of a handful of devices, but also scales to efficiently manage large scale networks consisting of thousands of devices. Scalability is achieved through intelligent policy-based management techniques that can simplify administration. ***Prerequisite:*** The Student should have knowledge of the following Security Technologies; NAT, PAT, firewall appliances, VPN, IPS, CSA, ACS, integrated router and switch security, and security management software. Furthermore the Student should be familiar with the following protocols: AAA, IPSec, IKE, and various tunneling protocols, HTTP, HTTPS, ICMP, SSH, SSL, NTP, FTP, TFTP, DNS.

Lär dig mer!

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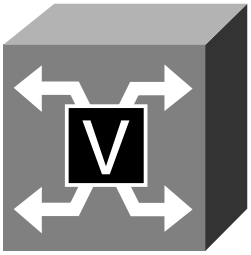
Ciscos Voice-koncept är komplett man kan få all funktionalitet som man tidigare haft i analoga och digitala PABXs men också mycket, mycket mer. Med Cisco Unified Communications tar ni ett nytt grepp om er totala kommunikationsplattform och vi kan hjälpa er hela vägen.



Implementing Cisco IOS Unified Communications (IIUC)

Duration 5 days **Price** 24.900 SEK

This five-day course provides the student with Unified Communications concepts, component definition and high level designs. This is also the core technology course in the certification path to achieve the CCNA Voice designation. Students will be able implement and configure small to medium sized IP Telephony solutions. UC products covered during labs include the Cisco Unified Communicatons Manager Express / Cisco Unity Express and the UC500 Smart Business Communications System. ***Prerequisite:*** The Student should have CCNA.

Implementing Cisco IOS Unified Communications Part 2 (IIUC2)

Duration 5 days **Price** 24.900 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 additon 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 IIUC.

Implementing Cisco Quality of Service (QOS)

Duration 5 days **Price** 24.900 SEK

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 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 CCNA or equivalent knowledge.

Cisco Voice over IP (CVOICE)

Duration 5 days **Price** 24.900 SEK

The course provides an understanding of converged voice and data networks and also the challenges faced by the various network technologies. The course also provides network administrators and network engineers with the knowledge and skills required to integrate gateways and gatekeepers into an enterprise VoIP network. This course is one of several courses in the Cisco CCVP track that addresses design, planning, and deployment practices and provides comprehensive hands-on experience in configuration and deployment of VoIP networks. ***Prerequisite:*** The Student should have CCNA and successful completion Cisco Voice Fundamentals or prior experience and knowledge of traditional PSTN operations, requirements of Voice over IP, and a basic understanding of VoIP benefits. In addition, a working knowledge of LANs, WANs, and IP switching and routing is essential to fully comprehend the concepts and technologies.

Implementing Cisco Unified Communications IP Telephony (CIPT1) Duration 5 days Price 24.900 SEK

The course prepares you for installing and configuring, a Cisco Unified Communications Manager solution in a single site. This course focuses primarily on Cisco Unified Communications Manager Release 6.0, the call routing and signaling component for the Cisco Unified Communications solution. This course includes lab activities in which you will perform postinstallation tasks, configure Cisco Unified Communications Manager and switches, implement Media Gateway Control Protocol (MGCP) gateways; and build dial plans to place on-net and off-net phone calls. You will also implement media resources, Lightweight Directory Access Protocol (LDAP) and voice mail integration as well as numerous user telephone features. ***Prerequisite:*** The Student should have knowledge of Computer networking, to include LANs, WANs, and IP switching and routing, Enable VLANs and DHCP, and working knowledge of the MGCP and its implementation.

Implementing Cisco Unified Communications IP Telephony 2 (CIPT2) Duration 5 days Price 24.900 SEK

The course prepares you for installing and configuring, a Cisco Unified Communications Manager solution in a multisite environment. This course focuses on Cisco Unified CallManager Release 6.0, the call routing and signaling component for the Cisco Unified Communications solution. It also includes H.323 and Media Gateway Control Protocol (MCGP) gateway implementation, the use of a Cisco Unified Border Element, and configuration of Survivable Remote Site Telephony (SRST), different mobility features, and voice security. This course includes lab activities in which you will apply a dialplan for a multisite environment, configure survivability for remote sites during WAN failure and implement solutions to reduce bandwidth requirements in the IP WAN. You will also enable Call Admission Control (CAC) and automated alternate routing (AAR), a feature that allows rerouting of calls over the public switched telephone network (PSTN) in case of no available bandwidth. There are labs for implementing device mobility, extension mobility, Cisco Unified Mobility, and voice security. ***Prerequisite:*** The Student should have attended CIPT1 or have equivalent knowledge.

CIPT 1+2 Power Workshop (CIPTPW) Duration 8 days Price 49.900 SEK

This eight-day Power Workshop is an efficient possibility to be prepared for the professional Cisco CallManager usage. Our specialists provide you with all essential knowledge of the courses "Implementing Cisco Unified CallManager" Part 1 and 2 (CIPT1, CIPT2). ***Prerequisite:*** The Student should have CCNA Voice certification or equivalent knowledge.

Troubleshooting Cisco Unified Communications Systems (TUC) Duration 5 days Price 24.900 SEK

The course equips network professionals with the knowledge and skills required to troubleshoot Unified Communications Systems / solutions in Enterprise, Mid-Market, and Commercial deployments. TUC teaches troubleshooting methodology, triage, resources, tools and fixes at the integrated System / Solution level, and for components (such as Cisco Unified Call Manager, Cisco Unity, videoconferencing, and infrastructure). ***Prerequisite:*** The Student should have CCNA certification, CIPT1 & 2, QoS and GWGK or equivalent knowledge.

CCVP Power Workshop (CCVPPW) Duration 15 days Price 99.900 SEK

The fifteen-day CCVP Power Workshop provides accelerated preparation for the qualification to become an IP Communications specialist. Our specialists offer an intensive training up to 11 hours daily about all essential content concerning IP Telephony. The purpose of this workshop is to prepare for the CCVP (Cisco Certified Voice Professional) certification. The CCVP Power Workshop includes the content of following courses: QOS, CVOICE, CIPT1, CIPT2, and TUC. ***Prerequisite:*** The Student should have CCNA certification or equivalent knowledge.

Cisco Unified Communications Advanced Troubleshooting (CUCAT) Duration 3 days Price 16.900 SEK

This course was developed to demonstrate a logical and efficient approach to solve problems in Cisco Unified Communications Networks with emphasis on call processing, functions and features. Using real life problems and experience the FL-CUCAT is based on CUCM 7.1 and focuses on signalling in VOIP environment and interaction with traditional TDM and analog technologies. The use of appropriate IOS debug /show commands and CUCM tools is a major part of this course. The course consists of more than 80% lab time to provide a realistic and complex environment. Students will face various problems caused either by failures or incorrect configurations. Especially connections between VOIP and non- VOIP (PSTN, PB) are challenging. The course is not suitable to gain knowledge of CUCM, Cisco IOS voice related subjects or generic VOIP understanding, and it is not a replacement of the TUC but rather an enhancement which addresses subjects not covered in the TUC course. ***Prerequisite:*** The Student should have prior knowledge of VOIP concepts and components, CUCM, Cisco IOS gateways and media resources, IP infrastructure, as well as an understanding of traditional telephony.

Cisco Unified Communications Presales & Design (CUCPD)

Duration 5 days **Price** 17.900 SEK

This course provides the knowledge and experience necessary to sell and design Cisco Unified Communications solutions for small, medium and large companies. The course content argues about selling points for a Cisco Unified Communications solution and shows in an overview about the products and features for different Cisco Unified Communications scenarios. Starting with the Cisco Unified Communications Manager Express and Cisco Unity Express the Unified Communications portfolio is introduced for small and remote offices. Cisco Unified Communications Manager and Cisco Unity will be presented for large enterprise customers. New features like Cisco Unified Mobility, Call Recording & Monitoring or the database functionality for redundant IP phone services are presented. ***Prerequisite:*** The Student should have good understanding of LAN/WAN, Voice over IP Fundamentals, and Cisco Unified Communications basics.

Cisco Unified Presence (PRSDI)

Duration 3 days **Price** 17.900 SEK

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

Cisco Unified Communications Architecture & Design (UCAD)

Duration 5 days **Price** 24.900 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.

Implem. Cisco Unified Communications Manager 7.0 Features (UCM70)

Duration 3 days **Price** 17.900 SEK

This course is designed to provide Students with necessary knowledge and skills to install and upgrade Cisco Unified Communications Manager version 7 and to implement the new features introduced with this new release in large, multisite Cisco Unified Communications Manager deployments.

Prerequisite: The Student should have attended CIPT1 & 2 or have equivalent knowledge.

Administering Cisco Unified Communications Manager 7.0 (ACUCM)

Duration 3 days **Price** 18.900 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.

Administering Cisco Unified Messaging (AUM)

Duration 2 days **Price** 11.900 SEK

The aim of the course is to produce competent administrators of the Cisco Unity product v5.0 and later. By the end of this course, learners will be able to perform system setup and customization; add, delete, and modify subscribers; and monitor and maintain the Cisco Unity system. The class partially prepares a learner to take the Unified Communication for System Engineers exam. ***Prerequisite:*** The Student should have a sound understanding of Microsoft Windows Server and Microsoft Exchange.

Implementing Cisco Unified Messaging (IUM)

Duration 5 days **Price** 25.900 SEK

The course provides students with best practice information on how to administer, install, configure, operate, and maintain a Cisco Unity system in either a stand-alone voice mail or unified messaging environment, as well lessons on Cisco Unity Connection.

Prerequisite: The Student should have a sound understanding of Windows Server and Exchange or IBM Lotus Domino and the ability to competently program at least one telephone switching equipment (i.e., Cisco CallManager, NEC NEAX 2000 or 2400, Avaya Definity series, etc.)

Implementing Cisco Unity Connection (IUC)

Duration 4 days **Price** 24.900 SEK

This course is designed to provide the learner with the knowledge to implement, integrate, and administer and manage Cisco Unity Connection release 7.0. This course prepares the learners for these tasks by meeting the following objectives: Review Cisco Unity Connection Basics; Install Cisco Unity Connection; Integrate, Troubleshoot, and Monitor Cisco Unity Connection; Migration from Cisco Unity to Cisco Unity Connection; Configure Cisco Unity Connection Global System Operating Parameters; and Configure Cisco Unity Connection User and Group Operation. ***Prerequisite:*** The Student should have knowledge of basic networking, voice and unified messaging skills.

Cisco Unity Design & Networking (CUDN)

Duration 4 days **Price** 23.900 SEK

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 meet the criteria of being sustainable and reducing post-deployment support requirements. ***Prerequisite:*** The Student should have completed the Unified Communications System Engineer (Unity) and Cisco IP Telephony (CallManager) courses and understand the product installation and configuration procedures. Microsoft skills in Active Directory, SQL, Exchange and Windows are also recommended.

Implementing Unified Communications Security (IUCS)

Duration 5 days **Price** 25.900 SEK

This five-day course prepares you for installing, configuring, and maintaining security on a Cisco Unified Communication solution. This course focuses primarily on enabling security on Cisco Unified CallManager 5.0 and its components and applications. ***Prerequisite:*** The Student should have CCNA certification, attended CVOICE and Foundation of Call Agent on gateway (IPTX) or equivalent knowledge.

High-density Media Gateway Configuration & Operations (HMGCO)

Duration 3 days **Price** 17.900 SEK

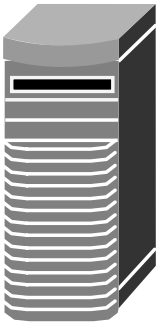
This is a lecture-lab course focusing on the implementation of the MGX 8880 and MGX 8850-PXM45 Media Gateways (MGX-MG), based upon the Voice Switch Service Module (VXSM) in both switched VoIP and VoAAL2 trunking applications. ***Prerequisite:*** The Student should have completed the WAN Quick Start guide, have knowledge of basic networking concepts, and PSTN technology.

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

CISCO UNIFIED CONTACT CENTER

Ciscos applikationer för Call Center är väldigt välutvecklade. Sveriges ledande Call Center använder Cisco för att effektivisera sin kundbearbetning. Vi har kurserna och instruktörerna som ger möjligheterna till att konfigurera ett Call Center för maximal effektivitet.



Cisco Unified Contact Center Power Workshop (CUCCPW)

Duration 10 days **Price** 56.500 SEK

This Power Workshop is intended for personnel who will implement, configure and support the Cisco IPCC Product. After completing this Power Workshop, students will be able to: Accurately explain the IPCC solution concept, Identify solution models and their issues, Build a "clean order" for an IPCC solution, Design an IPCC solution using all applicable components, Install, configure, test and maintain IPCC components for the Single-Site environment, Formulate and implement IPCC call flows and routing, Use Cisco's standard IPCC deployment tools, and Troubleshoot the IPCC solution set. ***Prerequisite:*** The Student should have basic knowledge of MS Windows-NT Server and familiarity with your call center operations (ACD, Network, and any IVR implementations).

Unified Contact Center Express & IP IVR Deployment (UCCXD)

Duration 5 days **Price** 28.900 SEK

After completing this course, learners will be able to design and plan a Unified Contact Center Express and a Unified IP IVR implementation, install or discuss all CCX components, configure all CCX components, build workflow applications to exploit Unified IP IVR features and capabilities, build contact center workflows to exploit Unified Contact Center Express features and capabilities, deploy and use agent and Supervisor Desktop software, and troubleshoot installations and workflows. ***Prerequisite:*** The Student should understand Internetworking Fundamentals, Basic IP telephony concepts, Cisco Unified Communications Manager deployments, Cisco IP Phones, Cisco IP Communicator, Contact Center Operations, Microsoft Windows 2000, 2003, XP, MS SQL 200, and MSDE Databases.

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** 23.900 SEK

Cisco Interaction Manager provides the capability for agents to selectively handle E-Mail, chat, web collaboration, and voice requests using an integrated platform for task assignment using workflow conditions, routing scripts, and socket communication involving Cisco Unified Contact Center Enterprise 7.5 (Unified CCE), with accessibility and interoperability of both within the Cisco Agent Desktop (Cisco AD) Embedded Browser. This five day instructor-led 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. ***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 coniguration of a Call Manager.

Workforce Management Express (WFMX)

Duration 3 days **Price** 15.900 SEK

This course teaches the Student implementation, configuration and support of the Workforce Managemant Options Cisco Unified Workforce Optimization Software.

Prerequisite: The Student should have experience of the Unified Contact Center Express architecture and configuration.

Customer Voice Portal Implementation (CVPI)

Duration 5 days **Price** 29.900 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.

Lär dig mer!

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CISCO BUSINESS VIDEO

TelePresence Installation & Configuration Training (TPICT)

Duration 5 days **Price** 28.900 SEK

The course, has been revised into a five-day, instructor-led course that teaches the Cisco TelePresence architecture, components, functionalities, and features. The newly revised course covers the recent addition of the CTS 500 and CTS 3200 TelePresence systems.New TelePresence features are also introduced and there is an increased amount of lab time. The course describes the latest techniques used to perform a Room Readiness Assessment, the latest advice on room remediation, Network Path Assessment and the TelePresence deployment process from the ordering, staging the deployment, assembly, camera tuning, CTS certification and maintenance and support of CTS systems. In addition, the course covers the Cisco TelePresence Manager, the TelePresence Multi-Point Switch and introduces Inter-Company Communications models. ***Prerequisite:*** The Student should have CCNA and attended CIPT1 or equivalent knowledge.

Digital Media Suite (DMS)

Duration 3 days **Price** 17.900 SEK

The course is a flexible, comprehensive and complete solution for digital signage and desktop video that makes it easy to create, manage, publish and access high-quality digital media for compelling communications. This course enables users to install, configure and troubleshoot DMS through Instructor led delivery and lab reinforcement. ***Prerequisite:*** The Student should have an understanding of basic routing and switching including multicasting.

Cisco Academy of Digital Signage (ADS)

Duration 2 days **Price** 19.900 SEK

This is a two-day innovative education initiative that teaches media professionals how to create and optimize media content for digital signage. Cisco ADS provides an instructor-led course to help develop the skills needed to produce digital signage for every market and customer. ***Prerequisite:*** The Student should be skilled in rich media content creation and video production and have working knowledge in Adobe Photoshop, Adobe Illustrator, Adobe Flash, Adobe Premier, and Adobe Dreamweaver.

CISCO UNIFIED MEETING PLACE

Designing Cisco Unified MeetingPlace Solutions (DMPS)

Duration 3 days **Price** 17.900 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** 29.900 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.

Lär dig mer!

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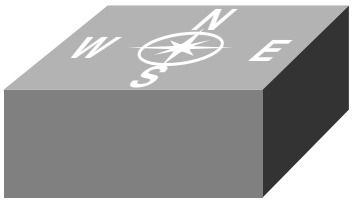
CISCO WIRELESS / MOBILITY

Trådlös uppkoppling har blivit en hygienfaktor och ett konkurrensmedel för effektivitet såväl som trivsel. I takt med att de stationera datorerna byts ut mot bärbara blir vårt sätt att arbeta annorlunda och kraven på mobilitet ökar. Vi har experterna på trådlösa nät och allting börjar med en optimal Site Survey.



Implementing Cisco Unified Wireless Networking Essentials (IUWNE) **Duration** 5 days **Price** 24.900 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 Fundamentals, 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** 24.900 SEK

This is a five-day day instructor-led course, 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** 24.900 SEK

This is a five-day day instructor-led course, 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** 24.900 SEK

This is a five-day day instructor-led course, 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** 24.900 SEK

This is a five-day day instructor-led course, 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.

Cisco Wireless LAN Fundamentals (CWLF)

Duration 4 days **Price** 21.900 SEK

This course examines the fundamentals of Cisco's wireless LAN technology. Topics will include the concepts of autonomous and lightweight access points and controllers, network management solutions and security. After completing this course, delegates will be able to discuss configuration, management of both autonomous and lightweight wireless networks. ***Prerequisite:*** The Student should have basic Computer Literacy, Knowledge of fundamental networking components and terminology, Knowledge of the Open Systems Interconnection (OSI) reference model, and Knowledge of basic LAN components and functions.

Cisco Wireless LAN Advanced Topics (CWLAT)

Duration 4 days **Price** 21.900 SEK

The course focuses on advanced WLAN design, integrating Cisco wireless components into a wired infrastructure. Deployment topics include managing the WLAN by using the Cisco Wireless Control System (WCS) to manage the advanced feature set and using the CiscoWorks Wireless LAN Solutions Engine (WLSE) to manage the core feature set. Security topics focus on integrating WLAN security using the WLAN controllers and lightweight access points as well as the autonomous access points in conjunction with the Cisco Secure ACS, and Network Access Controller (NAC). Security also includes Cisco WCS and CiscoWorks WLSE Intrusion Detection Systems. Troubleshooting the WLAN is also included. ***Prerequisite:*** The Student should have attended CWLF.

Cisco Wireless LAN Power Workshop (CWLPW)

Duration 5 days **Price** 29.900 SEK

This is a highly focused, intense course which combines CWLF and CWLAT. There will be many hours per day in this Power Workshop. ***Prerequisite:*** The Student should have basic Computer Literacy, Knowledge of fundamental networking components and terminology, Knowledge of the Open Systems Interconnection (OSI) reference model, and Knowledge of basic LAN components and functions.

Cisco Unified Wireless Networking (CUWN)

Duration 4 days **Price** 23.900 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 principles, TCP/IP, bridging, routing protocol, and VLAN operation. Basic Microsoft Windows and Internet Browser navigation skills.

Cisco CCIE Wireless Written Power Workshop (CCIEWW)

Duration 5 days **Price** 24.900 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 Lab Power Workshop (CCIEWL)

Duration 5 days **Price** 29.900 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.

Lär dig mer!

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CISCO WIRELESS / MOBILITY FORTS

Cisco Wireless Mesh Networks (CWMN)

Duration 3 days **Price** 18.900 SEK

This is an instructor-led course, training partners to their end-user customers. This three-day course focuses on using Cisco Unified Wireless solution, to design, install and maintain a wireless mesh network both as an add-on to an existing wireless LAN and as a new installation. Upon completion of this training course, you will be able to select, connect, configure, and troubleshoot the different components of the Cisco Wireless Mesh Network.

Prerequisite: The Student should have attended CUWN or CWLF and CWLAT and have a basic knowledge of PC hardware configurations and a basic understanding of networking business drivers.

Designing Cisco RF Networks (DRFN)

Duration 3 days **Price** 19.900 SEK

To effectively design a wireless mesh network, it is necessary to understand RF concepts, antenna systems capabilities, and link design measurements. Several options exist that could make the wireless mesh design a success or a failure. In this three-day course, you will learn about the design, installation, and standards of a wireless mesh network both as an add-on to an existing WLAN and as a new installation. ***Prerequisite:*** The Student should have a basic understanding of RF engineering tools.

Cisco Wireless Mesh & RF Design Bundle (WMRFPW)

Duration 5 days **Price** 29.900 SEK

This five-day Course combines the two courses CWMN and DRFN. In one week of training, students will learn how to design, install, and maintain a wireless mesh network as well as select, connect, configure, and troubleshoot Cisco components of their wireless mesh network. In an in-class case study, they will gain experience designing the RF network for a sample mesh-served community, engineering the client access layer, the mesh layer, and the backhaul layer. ***Prerequisite:*** The Student should have a basic understanding of PC hardware configurations and networking business drivers are both required.

CISCO CONTENT SWITCHING

Content Services Switch Operation & Configuration (CSSOC)

Duration 4 days **Price** 27.900 SEK

The course provides customers with essential knowledge required for deploying content switching networks and layer 4-7 switching applications. The four-day operation and configuration class provides customers with intensive hands-on training using Cisco 11500 Series Content Services Switch and Content Switching Module for Cisco Catalyst 6500 Series Switch. This course is intended for a technical audience involved in the installation, configuration and maintenance of content switching products. Customized training is available to emphasize the specific requirements of the customer's network and business demands. The course is delivered in a balance of lectures, hands-on labs, and white board discussions. ***Prerequisite:*** The Student should have a basic understanding of TCP/IP, HTTP, IP Routing, DNS and network design/configuration.

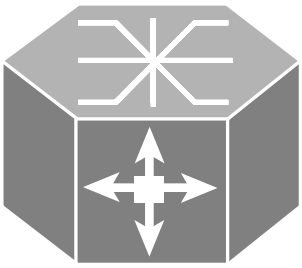
Application & Content Networking System Operation & Configuration (ACNS)

Duration 3 days **Price** 17.900 SEK

This four-day technical course provides an intensive lecture and hands-on training experience with Cisco's Application and Content Networking System 5.1 products. This course is intended for technical audiences involved in the installation, configuration and maintenance of Cisco's ACNS products. The class format will alternate between lectures, whiteboard discussions, and hands-on lab exercises. ***Prerequisite:*** The Student should have a basic understanding of TCP/IP, HTTP, and IP routing.

CISCO OPTICAL

Optical Training behandlar transmission via fiber. Våra medarbetare håller världsklass inom detta område och är vana att undervisa på såväl kundanläggningar som Ciscos lab i Monza och Texas.



Optical Technology Fundamentals (OTF)

Duration 3 days **Price** 16.900 SEK

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 services, 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 Transport Manager Operation & Maintenance (OCTMO)

Duration 2 days **Price** 16.900 SEK

The course enables the student to use the CTM network management system to manage a variety of Cisco optical networking products from the Cisco 15000 family. Working in small groups of up to three people per node, students complete a wide range of tasks covering many features and functions. They start with the installation procedures, followed by the user administration. The focus of the course is on the element management, covering the inventory, configuration, performance, security and fault management, including reporting. The course concludes with system administration and troubleshooting discussion. ***Prerequisite:*** The Student should have experience in the provisioning and operation of DWDM or optical transport

equipment, including the following basic SONET or SDH knowledge: Payload and overhead, Topologies, and Protection. It is also recommended that the Student have attended OSTPO.

Cisco ONS 15454 SDH Turn Up, Test, Provisioning & Operation (OSTPO)

Duration 3 days **Price** 26.900 SEK

The course provides instructor-led training that enables the student to learn how to operate the ONS 15454 SDH through classroom instruction and hands-on training on an ONS 15454 SDH system. Working in small groups of up to three people per node, students complete a wide range of tasks covering many system features and functions. Lab exercises rely on the ONS 15454 SDH user documentation for references to specific procedures. Each student has the opportunity to participate in every lab. Open lab periods provide students with opportunities to work with the ONS 15454 SDH system in an unstructured environment. Activities in the open lab are self-directed, but the instructor is available to answer questions and offer guidance. ***Prerequisite:*** The Student should have experience of SONET/SDH including SONET/SDH payload and overhead, recommended basic digital telephony prerequisites, architecture and framing, SONET/SDH architecture, concatenation of basic Ethernet concepts and basic dense wavelength division multiplexing.

Cisco ONS 15454 Multiservice Transport Platform Basic (MSTP BASIC)

Duration 4 days **Price** 21.900 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. The Cisco ONS 15454 MSTP Test, Turn Up and Operations bootcamp provides the skills to test and turn up the ONS 15454 MSTP. ***Prerequisite:*** The Student should have a basic knowledge of the DWDM theory, Fibre installation and Test and turn up of optical network nodes.

Cisco ONS 15454 MSTP Implementing Data over DWDM (ONS Data) (MSTP DATA)

Duration 4 days **Price** 21.900 SEK

This lab-intensive course introduces you to the Cisco ONS 15454 Multiservice Transport Platform (MSTP) dense wavelength-division multiplexing (DWDM) Release 8 data features and functions. You will learn the important theoretical concepts that underlie data encapsulation and how they are put to use in the Cisco ONS 15454 MSTP system. You will gain practical knowledge and skills to successfully deploy data over DWDM in your network. You will be able to determine the right MSTP cards to use based on the requirements of your network. In hands-on labs, you will learn to configure Cisco Transport Controller, the 2.5-Gigabit transponders, the 2.5-Gigabit and 10-Gigabit data cards, the Gigabit Ethernet and 10 Gigabit Ethernet crossponders, and the 10 Gigabit Add-Drop Multiplexer (ADM-10G). There is also a review of G.709 encapsulation, G.7041 Generic Framing Protocol (GFP), forward error correction, and Ethernet. This course combines lecture materials and hands-on labs throughout to make sure that you are able to successfully deploy a Cisco ONS 15454 MSTP data over DWDM network. ***Prerequisite:*** The Student should have attended OCTPO.

Cisco ONS 15454 Multiservice Transport Platform Advanced (MSTP ADVANCED)

Duration 4 days **Price** 25.900 SEK

This course will teach the Student how to: Install internal connections and provisionable patchcords, Install optical channel client connections and optical trail circuits, Provision the 10 Gigabit muxponder and 10 Gigabit transponders and connect with circuits, Provision the ADM-10G subnetwork, Provision optical protection in the ADM-10G subnetwork, Install protected circuits in the ADM-10G subnetwork, Provision the mesh node, which consists of the WXC, 40-MUX, and 40-DMX cards, Provision the mesh network, and Install protected circuits in the mesh network. ***Prerequisite:*** The Student should have attended ICND and MSTP BASIC. Furthermore the Student should have knowledge of Routing fundamentals and IP addressing, Cisco Transport Controller operation, Installing and provisioning the Cisco ONS 15454 shelf, Dense wavelength-division multiplexing (DWDM) basics, and Experience using optical test equipment

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

Under året som gått har vi utbildat ett 50-tal säljare på Ciscos generella säljutbildning CSE med mycket gott resultat. Vi har också effektiva säljutbildningar inom Unified Communications och Data Center.

Cisco Sales Essentials (CSE)

Duration 2 days **Price** 9.900 SEK

The course provides both Cisco and partner Account Managers and System Engineers with the introductory information they need to resell Cisco core products and solutions. It is designed for both Account Managers and System Engineers wishing to pass the Cisco Sales Essentials exam.

Prerequisite: None.

Cisco Sales Expert – Data Center (CSDC)

Duration 2 days **Price** 11.900 SEK

The course teaches the following: Cisco Data Center Architecture (SONA), LAN-Connectivity/FCoE; Security (Catalyst 4500/6500/Nexus 5000/7000/ASA), Server Switching/Load Balancing/Application Networking (ACE/CSM), Storage Switching/SAN/VSANs/Virtualization by the Network (MDS 9000 Series), Grid Computing/Infiniband (SFS 3000/7000), Long Distance Options, Replication Support by Cisco, Disaster Recovery (ONS 15000 Series), and WAN Optimization/Application Acceleration (WAE, WAAS).

Prerequisite: None.

Cisco Sales Expert – Unified Communications (CSEUC)

Duration 2 days **Price** 11.900 SEK

The course teaches the following: Introduction into Cisco IPC, Traditional Telephony Market, The Design and Development of Telephony Solutions, Cisco IP Telephony Overview, and Introduction to Cisco IP Telephony Products; Positioning Cisco IPC, Contrasting VoIP with IP Communications, A Sample Cisco IP Communications Solution, and Unterstanding Cisco IPC Selling Points; Design for IP Telephony; and Cisco IPC Challenges and Solutions, Infrastructure Challenges and Solutions, Feature Requirement Challenges & Solutions, Migration Challenges and Solutions, and Stake Holders Challenges and Solutions.

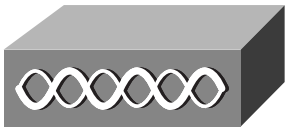
Prerequisite: None.

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

CISCO ADVANCED SERVICES

Vi har förmånen att sälja och leverera kurser från Cisco Advanced Services Education både i egen regi och i samarbete med Cisco. Dessa kurser är komplexa och labben är stora och dyra. Vårt exklusiva samarbete med Cisco ASe ger oss möjligheter att leverera alla kurser från Cisco Systems Inc.



DATACENTER
Building Enterprise Data Center Architectures (EDCA)
Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2)
Implementing Enterprise Data Center Infrastructure Security (IEDIS)

METRO ETHERNET
Deploying & Maintaining Carrier Ethernet Services (DMCE)

NETWORK MANAGEMENT
Cisco Active Network Abstraction (CANA)
Cisco Secure Access Control Server (CS-ACS)
Cisco Unified Operations Manager & Service Monitor (CUOM-SM)
Cisco Unified Provisioning Manager (CUPM)

ROUTING & SWITHING
Cisco IOS XR Software Fundamentals for Network Operations (XRFUND)
Cisco IOS XR IPV4 Routing (XIPV4R)
Cisco XR 12000 Series Essentials (XR12K)
Deploy, Maintain, and Troubleshoot Cisco IOS XR Software (IOSXR)
Cisco CRS-1 Essentials (CRS1)
Cisco 10000 Series Essentials (C10K)
Implementing Broadband Aggregation on Cisco Routers (BBAGG)
ASR 1000 Essentials (ASR1K)
Cisco ASR 9000 Aggregation Services Router Series Essentials (ASR9K)
Cisco 7600 Series Essentials (ASISR)
Building Core Networks with OSPF, IS-IS, BGP, and MPLS (BCN)
Advanced Implementing and Troubleshooting MPLS VPN Networks (AMPLS)

SECURITY
Building Enhanced Cisco Security Networks (BECSN)

SERVICE EXCHANGE FRAMEWORK
Service Control Application for Broadband Training (SCA-BB)
Service Control Application Solution Deployment (SCA-D)

UNIFIED COMMUNICATIONS
Cisco Unified Communications Manager 7.0 (CMBC7)
Cisco Unified Application Environment Developer Essentials (CUAE)

UNIFIED CONTACT CENTER
Cisco IPCC Enterprise PPDIOO Workshop (PPDIOO)
Customized Reporting for ICM and IPCC (IPCAR)
Cisco IPCC Advanced Scripting (IPCAS)

SERVICE PROVIDER VOICE
Cisco BTS 10200 Essentials (BTSE1, BTSE2)
Cisco IP Transfer Point (ITP)

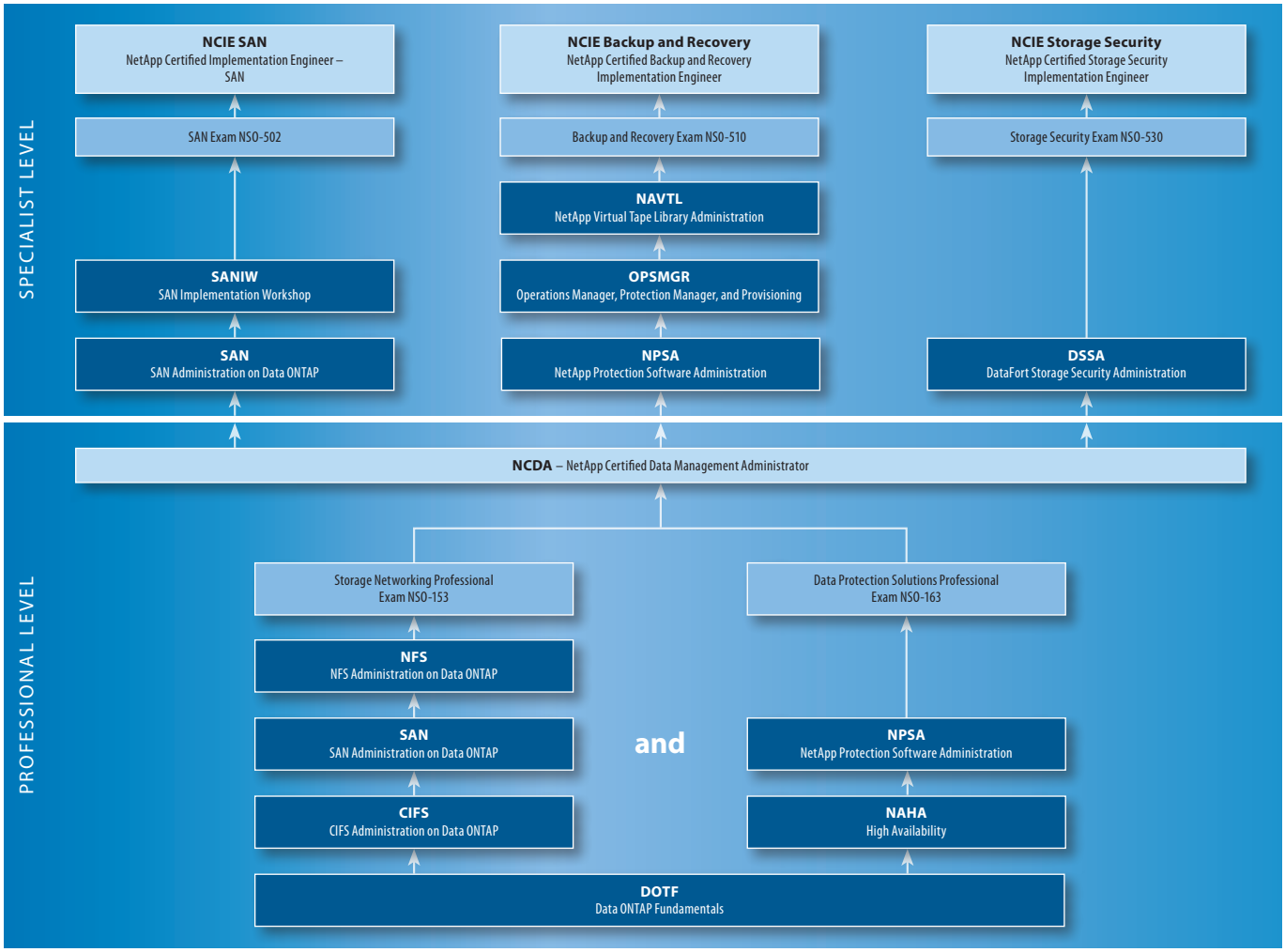
WIRELESS LAN
Cisco Unified Wireless Network for Data and Voice (CUWN-DVW)

NetApp certifieringar

NetApp Authorized Learning Partner

NetApps certifieringar ger en dokumentation över de kunskaper och färdigheter som krävs för att implementera och underhålla NetApp-lösningar.

NetApps certifieringar är strukturerade så att de kan påvisa både en bred bas och djup specialistkunskap. De är under ständig utveckling eftersom NetApps teknologier ständigt utvecklas. Fler NCIE certifieringar är under uppbyggnad. Gå in på vår hemsida på *www.fastlanenordic.com* för att se de senaste uppdateringarna.

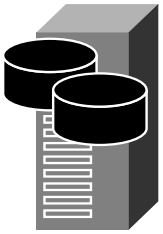


fast lane

NetApp
Authorized Learning Partner

NETAPP PROFESSIONAL

NetApp är nu en av marknadens ledande aktörer på storage. Med sina kostnadseffektiva och kundanpassade lösningar följer man marknadens trend med snabbare lagring och bättre utnyttjat lagringsutrymme. Våra originalkurser som leder till certifiering och de bootcamps vi ständigt levererar ger våra kunder den nödvändiga kunskapen att hantera sin NetApp-lösning. Vårt starka samarbete med Cisco och VMware ger utrymme för kundanpassade kurser.



Data ONTAP Fundamentals (DOTF)

Duration 5 days **Price** 44.900 SEK

This is an instructor-led course designed for those who provide support and administration on NetApp storage systems running the Data ONTAP operating system. The course covers Write Anywhere File Layout (WAFL) file system, volumes, aggregates, qtrees, and quotas. Hands-on labs for the course focus on the basic administrative use of Data ONTAP in NAS and IP-SAN environments. ***Prerequisite:*** The Student should have completed the Web Based Training "Introduction

to NetApp Products", have basic knowledge of client/server and networking terminology and management including TCP/IP and background in either UNIX, Windows, or SAN system.

Data ONTAP 8.0 7-Mode Administration (DOT87M)

Duration 5 days **Price** 44.900 SEK

Learn about Data ONTAP 8.0, the next generation data storage operating system from NetApp that combines the stability of Data ONTAP 7G with the cutting-edge scalable clustering of Data ONTAP GX. Explore basic administration of a storage system running Data ONTAP 8.0 7-mode, the successor of Data ONTAP 7G. By diving deeper into administrative techniques, you will acquire the knowledge to become a successful storage administrator. ***Prerequisite:*** The Student should have completed the Web Based Training "Introduction to NetApp Products".

Data ONTAP CIFS Administration (CIFS)

Duration 2 days **Price** 17.900 SEK

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

Data ONTAP NFS Administration (NFS)

Duration 1 day **Price** 8.900 SEK

This course is an instructor-led course 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 protocol and implementation criteria; configuration, administration, and monitoring options; and troubleshooting NFS problems. ***Prerequisite:*** The Student should have attended DOTF.

Data ONTAP SAN Administration (SAN)

Duration 3 days **Price** 26.900 SEK

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

High Availability (NAHA)

Duration 2 days **Price** 17.900 SEK

The course will teach the Student to implement Clustered Failover, SyncMirror and MetroCluster to ensure continuous data availability in the enterprise and rapid recovery of data in the event of a disaster. The course focuses on Licensing, Cabling, Configuration, and Testing each of the Techniques. Finally there will be an important section on Data Recovery. ***Prerequisite:*** The Student should have attended DOTF.

NetApp Protection Software Administration (NPSA)

Duration 3 days **Price** 26.900 SEK

This instructor-led course is for administrators and support personnel who will use SnapMirror, SnapRestore, SnapVault, Open Systems SnapVault, SnapLock, and LockVault to manage mission-critical data in the enterprise. Basic information on ReplicatorX and Protection Manager and Provisioning Manager are presented. A mixture of lecture and hands-on activities teach concepts and techniques needed to effectively use these solutions. ***Prerequisite:*** The Student should have attended DOTF.

Performance Analysis on Data ONTAP (PAD)

Duration 3 days **Price** 26.900 SEK

The Performance Analysis on Data ONTAP 7.3 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 changes based on their analysis. They will use analysis data for tuning and monitoring performance. ***Prerequisite:*** The Student should have attended DOTF.

NCDA Boot Camp (NCDABC)

Duration 10 days **Price** 89.000 SEK

This ten-day boot camp will prepare you to pass all the NetApp exams required to achieve the NetApp Certified Data Management Administrator (NCDA) certification.

The hands-on course covers the required knowledge from the following courses: DOTF, CIFS, NFS, NPSA, SAN, and NAHA.

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

Accelerated NCDA Boot Camp Data ONTAP 8.0 7-Mode (ANCDABC87)

Duration 5 days **Price** 58.000 SEK

This course is to prepare for success when taking the NetApp Certified Data Management 7-Mode Administrator 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.

Advanced NCDA Boot Camp (ANCDABC)

Duration 5 days **Price** 44.900 SEK

This five day intensive, advanced boot camp will prepare you to pass all the NetApp exams required to achieve the NetApp Certified Data Management Administrator (NCDA) certification. The hands-on course covers the required knowledge from the following courses: CIFS, NFS, NPSA, SAN, and NAHA. ***Prerequisite:*** The Student should have attended the instructor-led DOTF.

NCDA Recertification Workshop (RNCDA)

Duration 2 days **Price** 17.900 SEK

This two-day Workshop is prepares the Student for the necessary recertification test. The compressed schedule is just for refreshing the knowledge and update the skills to the latest technology. ***Prerequisite:*** The Student should have a NCDA.

SAN Implementation Workshop (SANIW)

Duration 3 days **Price** 26.900 SEK

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 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.

Operations Manager, Protection Manager, & Provisioning Manager Admin (OPSMGR)

Duration 5 days **Price** 44.900 SEK

Discover how to simplify your storage management tasks. Through lectures and labs, you will learn how to install, configure, and administer NetApp Operations Manager 4.0, Protection Manager 4.0, Provisioning Manager 4.0, as well as Performance Advisor 4.0. By the end of this course, you will be able to successfully install, configure, and troubleshoot Operations Manager 4.0, Protection Manager 4.0, Provisioning Manager 4.0, and Performance Advisor 4.0.
Prerequisite: The Student should have attended DOTF.

NetApp VTL Administration (NAVTL)

Duration 3 days **Price** 26.900 SEK

Learn the most effective methods for NetApp VTL configuration, installation, and troubleshooting. Explore how NetApp VTL works with the most popular storage backup solutions, including Symantec Veritas NetBackup, EMC NetWorker, and IBM Tivoli Storage Manager. Learn how to plan and execute an upgrade that will enable you to use the deduplication feature. An innovative, realworld installation case study will tie together the knowledge and hands-on experience gained in this course. Bring your knowledge and your company's NetApp VTL to the next level. ***Prerequisite:*** The Student should have knowledge of networking terminology and management, background in UNIX or Windows server administration, and knowledge of SAN administration.

DataFort Storage Security Administration (DSSA)

Duration 5 days **Price** 44.900 SEK

This instructor-led course is designed for anyone who performs basic support, and administration functions on a Decru DataFort Storage Security appliance or Lifetime Key Management appliance. Through a combination of discussion and hands-on activities, this course describes the features and functions of the DataFort E-Series (NAS & iSCSI), FC-Series (SAN Disk & SAN Tape), S-Series (SCSI Tape), Lifetime Key Management appliances and the Data Decryption Software.

Prerequisite: The Student should have knowledge of networking terminology and management, background in UNIX or Windows server administration, and knowledge of SAN administration.

Oracle on NetApp Storage Systems (NAOR)

Duration 5 days **Price** 44.900 SEK

This course covers the alternatives of running Oracle databases in a NetApp storage infrastructure. The course focuses on the relevant features of NetApp Filers, like Snapshots. The content focuses on Fundamentals, Backup & recovery, and High Availability.

Prerequisite: The Student should have proficiency in Oracle database administration, NetApp Filer administration and knowledge in UNIX/Linux and/or Windows.

VMware ESX on NetApp Storage Systems (NAVMW)

Duration 5 days **Price** 44.900 SEK

This course covers the installation, configuration and administration of an ESX Servers and focuses on optimal connectivity to NetApp storage systems using FCP, iSCSI, CIFS and NFS. Backup and restore of VMware ESX Server storage LUNs with ESX and NetApp means are also covered, as is the planning and operation of VMware ESX Server and NetApp storage systems in a high availability scenario.
Prerequisite: The Student should have knowledge on NetApp storage systems, VMware ESX, Linux and Windows servers.

NETAPP SPECIALIST FORTS

SANscreen Fundamentals (SANSF)

Duration 2 days **Price** 17.900 SEK

Learn the features and functions of the SANscreen suite of products. This hands-on course will show you how SANscreen manages storage through service policies and change-planning capabilities to provide improved resource and capacity utilization. Product demonstrations will enable you to become proficient with many aspects of SANscreen. By the end of this course, you will be able to explain how SANscreen can extend data center automation to a networked storage environment for more efficient operations. ***Prerequisite:*** The Student should have knowledge of SANscreen Deployment (WBT), and basic working knowledge of Fibre Channel and storage networking.

Data ONTAP 7.3 Tuning & Troubleshooting (NATT)

Duration 5 days **Price** 44.900 SEK

This course covers the new concepts and features of ONTAP version 7. The delegates practice migrations to the new ONTAP version. This course also focuses on the internal architecture and the tuning abilities. Elaborate checklists to the technical prerequisites help to make smooth transitions to a new environment. ***Prerequisite:*** The Student should have attended DOTF.

NetApp Storage Systems & Cisco MDS Switch Administration (NACSA)

Duration 5 days **Price** 44.900 SEK

This course covers the theory and the practical side of configuring and administering an efficient and secure Storage Area Network (SAN) using Cisco MDS switches and NetApp storage systems. Further topics are high availability aspects and analysis, correction and avoidance of malfunctions and performance issues in a SAN. ***Prerequisite:*** The Student should have profound Solaris and/or Windows know-how; and basic storage knowledge.

NetApp Storage Systems & Brocade Switch Administration (NABSA)

Duration 5 days **Price** 44.900 SEK

This course covers the theory and the practical side of configuring and administering an efficient and secure Storage Area Network (SAN) using Brocade switches. Further topics are security aspects and analysis, correction and avoidance of malfunctions and performance issues in a SAN. ***Prerequisite:*** The Student should have profound Solaris and/or Windows know-how; and basic storage knowledge.

MICROSOFT ON NETAPP STORAGE SYSTEMS

Microsoft Exchange on NetApp Storage Systems (MSEXC)

Duration 4 days **Price** 35.900 SEK

This solution-based course focuses on the optimization of Microsoft Exchange in a NetApp storage environment. This course takes students through the entire systems integration process of architecture planning, data migration, backup and restore, disaster recovery, and troubleshooting. ***Prerequisite:*** The Student should have attended Microsoft course 2400: Implementing and Managing Microsoft Exchange Server 2003 and course 2011: Troubleshooting Microsoft Exchange Server 2003 , and knowledge of Data Protection Retention (DPR).

Microsoft SQL Server on NetApp Storage Systems (MSSQL)

Duration 5 days **Price** 44.900 SEK

Learn to design and implement a high-performance, highly available, consolidated Microsoft SQL Server solution on a NetApp storage system. This solution-based course focuses on the optimization of Microsoft SQL Server 2005 in a NetApp storage environment. This course takes you through the entire systems integration process of architecture planning, data migration, backup and restore, disaster recovery, and troubleshooting. By the end of this course, you will be able to confidently deploy Microsoft SQL Server on NetApp storage systems. ***Prerequisite:*** The Student should have attended DOTF, NPSA and SAN. Furthermore the Student should have at least one of the following: Microsoft Course 2072A: Administering a Microsoft SQL Server 2000 Database, Microsoft Exam 70-228: System Administration for Microsoft SQL Server 2000, or one year of Microsoft SQL Server 2005 experience.

ARCHITECTING VIRTUALIZATION SOLUTIONS ON NETAPP STORAGE

Implementing Secure Multi-Tenancy (ISMT)

Duration 5 days **Price** 44.900 SEK

This highly focused five-day course provides a detailed understanding of how to integrate NetApp MultiStore, Cisco Unified Computing Systems, Cisco Nexus 1000v switches, and VMware vSphere to create a secure multi-tenant computing environment. NetApp MultiStore serves as the storage foundation for multi-tenancy, Cisco UCS serves as the hardware platform for VMware vSphere, and Cisco Nexus 1000v serving 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. Upon completion of the course, the student will understand how integrating the individual product components create a virtual, secure multi-tenant architecture. ***Prerequisite:*** The Student should possess an intermediate knowledge in: Switching, Routing, Datacenter architecture and protocols, VMware ESX server virtualization and vSphere, NetApp storage, and Backup and Disaster recovery technologies.

Design and Implement Virtualization Solutions on NetApp Storage (DIVS)

Duration 4 days **Price** 35.900 SEK

This course shows how to design and implement virtualization solutions on NetApp storage systems. The course first reviews the NetApp virtualization service delivery process: students learn how to use NetApp virtualization service products to engage with customers to design and implement virtualization solutions. Next, the course shows how to deploy VMware Virtual Infrastructure on NetApp storage systems and how to achieve maximum value with VMware and NetApp integrated features. Next, this course shows how to deploy Citrix XenServer on NetApp storage systems and how to achieve maximum value with Citrix XenServer and NetApp integrated features. Finally, the course shows how to deploy Microsoft Windows Server Virtualization (Hyper-V) on NetApp storage systems and how to achieve maximum value with Hyper-V and NetApp integrated features. Hands on lab exercises consolidate the knowledge acquired in the course. ***Prerequisite:*** The Student should have NetApp Core Technical Training and NetApp SAN Core Technical Training or equivalent knowledge. Furthermore it is recommended that the Student have VMware Virtual Infrastructure 3 Fast Track, Citrix XenServer Enterprise Edition 4.1: Administration and Microsoft Hyper-V technical training or equivalent knowledge.

Architecting VMware Solutions on NetApp Storage (AVS)

Duration 2 days **Price** 17.900 SEK

This course will cover the basics of a VMware environment and the NetApp value proposition within that environment. The course will include discussions and activities on architecting and design specifics for ESXi, Vsphere, and Desktop Management. It will also describe the NetApp best practices in these environments. There will be training and activities focused on the areas of Backup and Recovery, Deduplication, Cloning, and Sizing. ***Prerequisite:*** The Student should have a basic understanding of SAN, NAS, NetApp, and VMware technologies. Suggested courses: FastTrack 102 (ASAP) Part Number: CP-ED-ILT-ASAP3, VMware ESX on NetApp Storage, ESXi overview webinar, and Virtual Desktop Management overview Webinar available from VMware.

Architecting Citrix Solutions on NetApp Storage (ACS)

Duration 2 days **Price** 17.900 SEK

Learn how NetApp technologies can be integrated with Citrix to provide compelling virtualization solutions. In this course, you will learn architecture, design specifics, and best practices for XenServer and XenDesktop. Through hands-on activities, you will practice creating virtual machines in a Citrix environment. By the end of this course, you will be able to demonstrate to customers that value of Citrix solutions on NetApp. ***Prerequisite:*** The Student should have a basic understanding of SAN, NAS, NetApp, and Citrix technologies. Suggested courses: XenServer and XenDesktop Overview Webinar, available from Citrix.

Architecting Hyper-V Solutions on NetApp Storage (AHS)

Duration 2 days **Price** 17.900 SEK

In this course you will learn the basics of a Hyper-V environment along with the value proposition of NetApp within that environment. The course will include discussions and activities on architecting and design specifics for Hyper-V, along with the NetApp best practices in these environments. There will also be training and activities focused on the areas of Backup and Recovery, Deduplication, Cloning, and Sizing. ***Prerequisite:*** The Student should have a basic understanding of SAN, NAS, NetApp, and Hyper-V technologies. Suggested courses: FastTrack 102 (ASAP) Part Number: CP-ED-ILT-ASAP3 and ABCs of Hyper-V on NetApp Storage.

ARCHITECTING VIRTUALIZATION SOLUTIONS ON NETAPP STORAGE FORTS

Design and Implement VMware Solutions on NetApp Storage (DIVMW) Duration 2 days Price 17.900 SEK

Learn how to use NetApp Virtualization Service products to create virtualization solutions. This course will teach you how to deploy a VMware virtual infrastructure on NetApp storage systems and how to achieve maximum value with VMware and NetApp integrated features. A mixture of lecture and hands-on activities teach the concepts and techniques that are needed to effectively deploy these solutions. A case study consolidates the knowledge gained in this course, enabling you to design and implement customized virtualization solutions for your customers.

Prerequisite: The Student should have NetApp Core Technical Training, NetApp SAN Core Technical Training, VMware Virtual Infrastructure 3 Fast Track, Citrix XenServer Enterprise Edition 4.1: Administration, and Microsoft Hyper-V technical training or equivalent knowledge.

MULTI-VENDOR TRAINING

Virtual Dynamic Data Center (VDDC) Duration 1 day Price 8.900 SEK

In this compact one day course the participants gain understanding for the typical competition of a Data Center. Participants get to know different solution statements and consolidation strategies and learn how to use them effectively. Among the Topics discussed are: Data Center of the Future, Data Center Strategy, Customer requirements, Unified Fabric Concept, Dynamic Data Center, Virtualisation and Market Trends.

Prerequisite: None.

Lär dig mer!

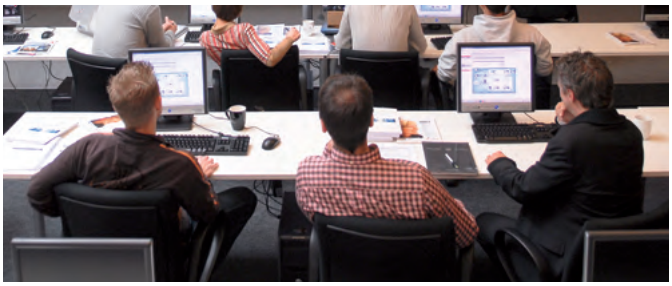
Du kan boka dina kurser direkt på www.fastlanenordic.com. Om du hellre vill prata med någon kan du ringa oss på 08-410 246 80. Vill du fråga något men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

IBM BASIC & INTERMEDIATE

IBM samarbetar med NetApp genom att leverera produktfamiljen N Series. Vi utbildar på N Series på samma sätt och med nästan samma kurser som i NetApps sortimentet. Våra instruktörer har erfarenhet av båda produktfamiljerna och våra lab är anpassade efter vilken leverantör vi företräder.

IBM N Series Data ONTAP Fundamentals (DOTFN)

Duration 5 days **Price** 44.900 SEK



This is an instructor-led course designed for those who provide support and administration on IBM N series storage systems running the Data ONTAP operating system. The course covers Write Anywhere File Layout (WAFL) file system, volumes, aggregates, qtrees, and quotas. Hands-on labs for the course focus on the basic administrative use of Data ONTAP in NAS and IP-SAN environments. ***Prerequisite:*** The Student should have completed the Web Based Training "Introduction to N series Products", have basic knowledge of client/server and networking terminology and management including TCP/IP.

IBM N Series Data ONTAP CIFS Administration (CIFSN)

Duration 2 days **Price** 17.900 SEK

This is an instructor-led course designed for those who provide support and administration for a CIFS environment on IBM N series storage systems running the Data ONTAP operating system. The course is delivered using a Windows host. The course covers the different server environments where a storage system can support Windows client users, the licensing and setting up of CIFS on the storage system, configuring files and options, administering a storage system including creating and managing shares, users, and groups, and troubleshooting CIFS problems. ***Prerequisite:*** The Student should have attended DOTFN.

IBM N Series Data ONTAP NFS Administration (NFSN)

Duration 1 day **Price** 8.900 SEK

This course is an instructor-led course designed for those who provide support and administration for an NFS environment on IBM N series storage systems running the Data ONTAP operating system. The course covers the NFS protocol and implementation criteria; configuration, administration, and monitoring options; and troubleshooting NFS problems. ***Prerequisite:*** The Student should have attended DOTFN have working knowledge of UNIX or equivalent experience and familiarity with networking concepts.

IBM N Series Data ONTAP SAN Administration (SANN)

Duration 3 days **Price** 26.900 SEK

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

IBM N Series NetApp Protection Software Administration (NPSAN)

Duration 3 days **Price** 26.900 SEK

Learn how to protect your mission-critical data using IBM N series data protection software. A mixture of lecture and hands-on activities will show you how to implement SnapVault, SnapMirror, and SnapRestore to protect your enterprise data from corruption and outages. Learn how to integrate Protection Manager and Provisioning Manager to enhance the manageability of your IBM N series data protection solution.

Prerequisite: The Student should have attended DOTFN.

Vårt starka samarbete med HP med flera ger oss möjlighet att leverera en komplett VMware utbildning på den svenska marknaden. VMware är en del av det koncept som via nätverket leder vidare till MultiStorage och Multi-Tenancy.

VMware vSphere 4: What's New (VIWN)

Duration 2 days **Price** 12.550 SEK

This hands-on training course explores new features in future versions of VMware vCenter Server and ESX/ESXi, as well as how to upgrade. Among the topics are: The Next Generation of VI, Infrastructure Administration, Networking, Storage, Resource Management, and Business Continuity. ***Prerequisite:*** The Student should have completed VMware Infrastructure 3: Install and Configure V3.5 (VIIC) or equivalent experience with VMware ESX and vCenter Server.

VMware vSphere 4: Install, Configure, Manage (VICM)

Duration 4 days **Price** 27.900 SEK

This hands-on training course explores installation, configuration, and management of VMware vSphere, which consists of VMware ESXi/ESX, and VMware vCenter Server. Upon completion of this course, you can take the examination to become a VMware Certified Professional. The course is based on ESXi 4.0, ESX 4.0, vCenter Server 4.0.

Prerequisite: The Student should have system administration experience on Microsoft Windows or Linux operating systems.

VMware vSphere 4: Fast Track (VVFT)

Duration 5 days **Price** 36.500 SEK

This intensive, extended-hours training course focuses on installing, configuring, managing, and troubleshooting VMware vSphere. It combines the content of the VMware vSphere 4: Install, Configure, Manage course with advanced tasks and skills for configuring a highly available and scalable virtual infrastructure. Upon completing this course, you can take the examination to qualify as a VMware Certified Professional. ***Prerequisite:*** The Student should have a willingness to participate in a demanding, high-intensity training experience, and comfort with system administration using command-line interfaces.

VMware vSphere 4: Manage Availability (VMA)

Duration 1 day **Price** 6.275 SEK

This hands-on training course equips system administrators with the knowledge, skills, and abilities to achieve competence in building and running a highly available VMware vSphere 4 virtual infrastructure. ***Prerequisite:*** The Student should have attended VICM, VIWN, or have prior experience using VMware ESX/ESXi and vCenter products. Furthermore the Student should be able to: List the components of Business Continuity, Describe Microsoft Windows 2003 and 2008 cluster configurations, Configure a VMware High Availability cluster using non-default options, Deploy fault-tolerant virtual machines using VMware Fault Tolerance (FT), and Deploy VMware vCenter Server Heartbeat.

VMware vSphere 4: Troubleshooting (VSTS)

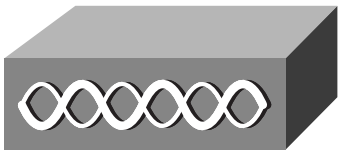
Duration 4 days **Price** 22.900 SEK

This lab-intensive course focuses on providing system administrators with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere virtual infrastructure. In this course, you will spend most of the time diagnosing and rectifying configuration problems created on VMware ESX/ESXi hosts and VMware vCenter Server systems. Upon completion of this course, you can take the examination to become a VMware Certified Professional. ***Prerequisite:*** The Student should have attended VICM, VMA, and VVFT and have administration experience with ESX/ESXi and vCenter Server.

Förutom våra leverantörsberoende kurser har vi ett stort utbud av så kallade generiska kurser utan leverantörsavsändare. En av orsakerna kan vara att täcka ett teknikområde där de levereantörsspecifika kurserna inte täcker upp. Kurserna är uppbyggda enligt samma pedagogik med en blandning av teori och praktik men de är tillämpbara i alla miljöer då de behandlar tekniken och inte produkterna.

FAST LANE DATAKOM

Vi börjar med TCP/IP som är grundkurserna vad du än skall göra i nätverksvärlden. De är en bra början innan man ger sig in på Cisco-spåret men även en stabil och pålitlig grund om man skall arbeta med IP generellt. Alla våra instruktörer har arbetat länge med IP och lär dig mer.



Networking & TCP/IP Fundamentals (NWF)

Duration 3 days **Price** 12.900 SEK

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

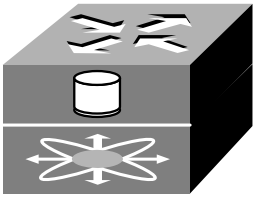
Troubleshooting TCP/IP Fundamentals (TTCP)

Duration 2 days **Price** 9.900 SEK

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

FAST LANE STORAGE

SAN-kursen är en mycket bra påbyggnadskurs efter TCP/IP kurserna om du skall börja med Storage. Vi har utvecklat denna kurs som en snabb och effektiv start inom Storage som gör det lättare att gå in på de olika Storage-leverantörernas kurser. Samma instruktörer som kör NetApp-, Cisco- och Brocade-kurserna levererar SAN och det gör att vi lär dig mer.



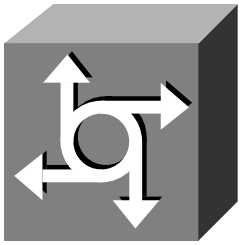
Storage Foundation (FL-SAN)

Duration 5 days **Price** 29.900 SEK

This course gives an overview of the design and concepts of storage technology as well as covering vendor specific features and protocols. Among the topics are, Basic overview, Protocols, Components, NAS and SAN features, Design and Implementation, and Storage Market Overview. ***Prerequisite:*** The Student should have attended NWF and TTCP.

FAST LANE NÄTVERKSANALYS MED WIRESHARK

Snifferutbildning gör nytta. Våra utbildningar på WireShark ger en ingående genomgång av själva analysverktyget men det viktigaste är ändå tankesättet. Våra kurser fokuserar mer på metod och teknik för nätverksanalys och sniffern i sig själv är själva labbet. Du kan delta i WireShark-kurserna vilken sniffer du än arbetar på. Nytt inför hösten är att vi kompletterar kurserna i analys av IP-baserade nät med en efterfrågad kurs i analys av nätverk med Microsoft-baserade servers och klienter . Våra Instruktörer arbetar bara med olika sniffers och har gjort så i mer än 15 år. Vi garanterar att vi lär dig mer.



Packet Analysis with Wireshark Analyzer (PAW)

Duration 2 days **Price** 9.900 SEK

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. Among the topics are; Features, functions and basic operation of Wireshark Analyzer, Advanced features of Wireshark Analyzer, Methodology and techniques of network analysis, Statistics and Baselining, and Analysing networks and applications. ***Prerequisite:*** The Student should have system a basic understanding of Network Fundamentals and TCP/IP operation.

Advanced Packet Analysis with Wireshark Analyzer (APAW)

Duration 3 days **Price** 14.900 SEK

Participants will acquire knowledge and experience about detailed analysis and troubleshooting of typical network protocols and applications with specific focus on switched Ethernet, TCP/IP networks and TCP/IP based applications. Among the topics are; Switched Ethernet analysis, TCP/IP analysis of the network layer and the transport layer, Analyzing TCP/IP with Wireshark, and TCP/IP applications. ***Prerequisite:*** The Student should have attended PAW.

Packet Analysis Power Workshop (PAPW)

Duration 5 days **Price** 23.900 SEK

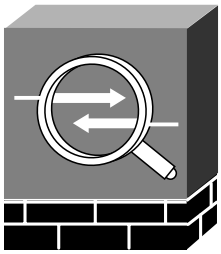
Participants will receive a comprehensive introduction into the features, functions and the usage of the Wireshark Analyzer and will learn methods and techniques about monitoring and analysis of their networks from the packet level. This course will also focus on the detailed analysis and troubleshooting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

Analysing MS-Windows Networking (AWN)

Duration 3 days **Price** 14.900 SEK

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. 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.

Här har vi på allmän begäran valt att presentera en anti-hacking-kurs för att få våra kunder att förstå hur en hacker tänker. Vi kommer att presentera fler kurser under året inom samma område. Den andra kursen är om Radius och Tacacs+ och hur det fungerar med Ciscos Access Controll Server (ACS). Många kunder har frågat om vi kan bygga en kurs inom detta område och här är den. Våra instruktörer kan detta och lär dig mer.



ANTI-HACKING Workshop (HACK)

Duration 5 days **Price** 19.900 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 particulars 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.

RADIUS and TACACS+ with the Cisco Access Control Server (FL-ACS)

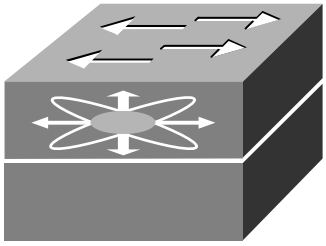
Duration 3 days **Price** 21.200 SEK

This course teaches you how to provide secure access to your network using the Cisco Secure Access Control Server (ACS) 5.0, interoperating with security features in Cisco IOS Software. You will gain a thorough understanding of the operation of the Cisco Secure ACS to control access to network services and devices. Course 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 activities 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 to provide personal experience in configuring Cisco ACS and Cisco network devices. ***Prerequisite:*** The Student should have a CCNA certification or equivalent.

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

SNIA står för Storage Networking Industry Association. SNIA har funnits sedan början på 90-talet och verksamheten går ut på att leda Storage-industrins arbete i att utveckla och förorda standards, utveckla teknikområden och att utveckla utbildning som kan levereras World Wide. Nethous/Exello har den ende nordiske läraren bland sina Storage Experter, han är också expertkommentator i CS. Vårt samarbete ger oss möjligheten att leverera SNIAs leverantörsoberoende kurser i Sverige.



Storage Networking Foundation (SNF)

Duration 5 days **Price** 28.500 SEK

The course provides an introduction to storage networking concepts ,technologies and solutions. Attendees will explore fundamental storage concepts, disk technology, storage architectures, storage management and storage networking protocols such as SCSI, Fibre Channel, iSCSI, FCIP and iFCP. Key solutions will be presented, which addresses data sharing, Networked Attached Storage (NAS), disaster recovery preparation, extended SANs, business continuity, backup and recovery, and storage consolidation. After completing this course, attendees will be well-prepared to attend more advanced courses on storage networking solutions and implementation, as well as courses which address specific technologies. ***Prerequisite:*** The Student should have fundamental knowledge of traditional or networked storage technologies and LAN/WAN solutions.

Storage Networking Management & Administration (SNMA)

Duration 5 days **Price** 28.500 SEK

This course will give you the knowledge needed to manage and administer a SAN using Fibre Channel technology. It covers Fibre Channel specific topics for the day to day management of a storage networking environment and data center. This course will not cover basic concepts and technologies or detailed developer topics. This course focuses on the objectives defined for the SNIA Storage Networking Management/Administration exam. This exam has been carefully constructed to certify that the successful candidate has the knowledge necessary to fulfill their responsibilities as a FC Storage Administrator. The exam objectives were derived from a SNIA sanctioned Job Task Analysis. The JTA was structured to determine the skills needed by a Storage Administrator. ***Prerequisite:*** The Student should have attended SNF and have a understanding of traditional Networking Technology and SCSI/Disk Technology.

Lär dig mer!

Du kan 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 men har telefonskräck eller söker oss efter kontorstid eller helt enkelt tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.

CARIN RECORDING

Carin Recording har utvecklat utrustning för samtalsinspelning inom IP-världen. Banker, börser, finansbolag, larmcentraler och säkerhetsföretag använder produkterna. Genom stöd från bl.a. Cisco har utvecklingen och lanseringen påskyndats och Carin är idag ett konkurrenskraftigt alternativ. Genom vårt samarbete har Carin tagit ytterligare ett steg och vi arbetar nu med två teknikutbildningar. En kortare kurs för dig som ska sälja och en lite djupare för dig som skall konfigurera och installera produkterna. Utvecklarna av produkten utbildar och därför lär vi dig mer.

Voice Recording Consultant (CA-VRC)

Duration 1 day **Price** 4.900 SEK

The course provides knowledge of market segments using call recording for business documentation, quality assurance, threat management and other applications. Participant will get a good understanding of information security and privacy concerns of call recording, allowing them to solve real life customer cases either in a paid pre study or in a sales situation. The documentation from the course includes of check lists for sales qualification, legal whitepaper, prestudy draft and more, ready to be used on real life consulting assignments. ***Prerequisite:*** The Student should have general IT pre-sales and consulting experience.

Carin Systems Engineering (CA-CSE)

Duration 1 day **Price** 7.900 SEK

The course provides a detailed technical understanding of Carin solutions, from detailed technical requirements, through capacity planning, to deployment and operations. This knowledge will allow CSEs to offer their customers properly designed call recording solutions and to implement a Carin design including installation, configuration and solution testing. The course will also provide end-user and user administration skills allowing you to work with Carin first line support or educate end-users. ***Prerequisite:*** The Student should have experience with Cisco or general SIP IP telephony solutions, industry standard servers, and at least Cisco CCNA or similar knowledge.

Praktiska upplysningar och allmänna villkor

Anmälan
Anmälan sker enklast på www.fastlanenordic.com, via e-post: info@fastlanenordic.com eller fax på +46 8 600 05 70.

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 logikostnader.

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.

B

SVERIGE

PORTO BETALT

Vi har kompletta personliga paket med rabatt …

CCNA – Cisco Certified Network Associate
ICND1 & ICND2 och 2 tester.
34.900 kr *(Du sparar ca 9.000 kr)*

CCNA – Concentration
ICND1 & ICND2 samt en av IUWNE, IIUC eller IINS och 3 tester.
54.900 kr *(Du sparar ca 14.000 kr)*

CCDA – Cisco Certified Design Associate
ICND1, ICND2 & DESGN och 3 tester.
50.900 kr *(Du sparar ca 13.000 kr)*

CCNP – Cisco Certified Network Professional
ROUTE, SWITCH & TSHOOT och 3 tester.
62.900 kr *(Du sparar ca 16.000 kr)*

CCDP – Cisco Certified Design Professional
ROUTE, SWITCH & ARCH och 3 tester.
58.900 kr *(Du sparar ca 15.000 kr)*

CCNP Wireless – Cisco Certified Network Professional Wireless
CUWSS, IUWMS, IAUWS & IUWVN och 4 tester.
82.900 kr *(Du sparar ca 21.000 kr)*

CCIP – Cisco Certified Internetwork Professional
ROUTE, BGP, MPLS & QoS och 4 tester.
82.900 kr *(Du sparar ca 21.000 kr)*

CCVP – Cisco Certified Voice Professional
CVOICE, QoS, CIPT1, CIPT2 & TUC och 5 tester.
102.900 kr *(Du sparar ca 26.000 kr)*

CCSP – Cisco Certified Security Professional
IINS, SNRS, SNAF & IPS samt en av SNAA, CANAC eller MARS och 5 tester.
82.900 kr *(Du sparar ca 18.000 kr)*

Villkor
- Dessa paket säljs exklusivt och kan inte kombineras med andra erbjudanden.
- Kurserna skall genomföras inom 12 månader från inköp.
- Samma deltagare skall gå samtliga kurser i ett kurspaket.
- Kurspaket får ej överlåtas.

Är du intresserad av att köpa något av våra kompletta certifieringspaket kontakta oss på info@fastlanenordic.com eller 08-410 246 80.

… och Utbildningskort som ger rabatt till hela företaget.

Vi har gjort om vårt mängdrabattsystem. Från att ha varit ett system med olika regler för olika kurser och företag har vi bestämt oss för att ett rakt system med tre rabattkort.

Våra tre utbildningskort heter 25, 50 och 100. De ger motsvarande antal poäng. NetApp-kurserna kostar två poäng medan övriga kurser kostar en poäng vilket blir enkelt och rättvist. Dessutom ger det massor med chanser för hela företaget att träffa våra fantastiska lärare.

Är du intresserad av att köpa Utbildningskort kontakta oss på *info@fastlanenordic.com* eller *08-410 246 80.*

Fast Lane Utbildningskort 25
Kortet ger ditt företag 25 poäng att spendera på våra kurser. Du väljer själv hur du och dina anställda ska spendera poängen.
104.500 kr
Rabatten blir ca 15%, du sparar ca 20.000 kr.

Fast Lane Utbildningskort 50
Kortet ger ditt företag 50 poäng att spendera på våra kurser. Du väljer själv hur du och dina anställda ska spendera poängen.
199.500 kr
Rabatten blir ca 20%, du sparar ca 50.000 kr.

Fast Lane Utbildningskort 100
Kortet ger ditt företag 100 poäng att spendera på våra kurser. Du väljer själv hur du och dina anställda ska spendera poängen.
373.500 kr
Rabatten blir ca 25%, du sparar ca 125.000 kr.

Villkor
Utbildningskorten säljs exklusivt och kan inte kombineras med andra erbjudanden. Kurserna skall genomföras inom 12 månader från inköp. Utbildningskorten får ej överlåtas på annat företag.

fast lane
Lär dig mer

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Telefon 08-410 246 80. *Fax* 08-600 05 70. www.fastlanenordic.com *E-mail* info@fastlanenordic.com