

The logo for Fast Lane, featuring the words "Fast Lane" in a bold, red, italicized sans-serif font. To the left of the text are three horizontal, slanted lines of varying lengths, suggesting speed or a lane on a road.

Fast Lane



Authorized Learning Partner



KURSKATALOG HÖSTEN 2011

A photograph of two men in a classroom or office setting. The man on the left is bald with a mustache, wearing a dark green polo shirt, and is sitting at a desk with his hand on his chin, looking thoughtful. The man on the right is wearing glasses and a dark blue polo shirt, leaning over a laptop and pointing at the screen. In the background, another person is visible at a desk with a laptop. The scene is brightly lit with large windows.

Nätverk på allvar?
Vi har Sveriges bästa kurser!

»The Cloud«

Just nu talar alla om »The Cloud« – molnet. Alla tillverkare och större aktörer på marknaden håller seminarier och konferenser där de tillsammans med sina samarbetspartners bjuder in sina kunder för att gemensamt informera om sina speciella lösningar och sin särskilda kompetens.

Fast Lane är ofta med på dessa events. Vi är med eftersom vi aktivt hjälper till att få visionen att bli verklighet! Varje dag utbildar vi kvalificerade tekniker i alla de olika delar som ingår i »molnet« så att de kan förverkliga visionen. Nätverksingenjörer på Ciscos nätverkslösningar, säkerhetsexperter så vi kan köra konfidentiella data i molnet och Back-up experter på NetApps och Symantecs lösningar för datalagring. Uppstår det problem så utbildar vi på felsökning och felhantering med hjälp av t.ex. Wiresharks produkter, så vi hjälper till – varje dag – med att göra visionen till verklighet.

Vårt namn – Fast Lane – har aldrig varit mer passande till situationen än det är just nu. Vi är verkligen i omkörningsfilen. Under året har vi planer på att öppna ytterligare ett kontor i Norden och fyrtio (40) kontor runt om i världen, och därmed stärker vi vår position som den enda CLSP, Cisco Learning Solutions Partner, och NetApp ALP, Authorised Learning Partner, som är representerad i alla delar av världen där våra leverantörer finns.

Det ökar också vår förmåga att attrahera, kontraktera och behålla de bästa instruktörerna för att ge våra kunder de bästa leveranserna.

Med vänlig hälsning



Anders Oxelcrantz
VD Fast Lane Nordic

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FAST LANE

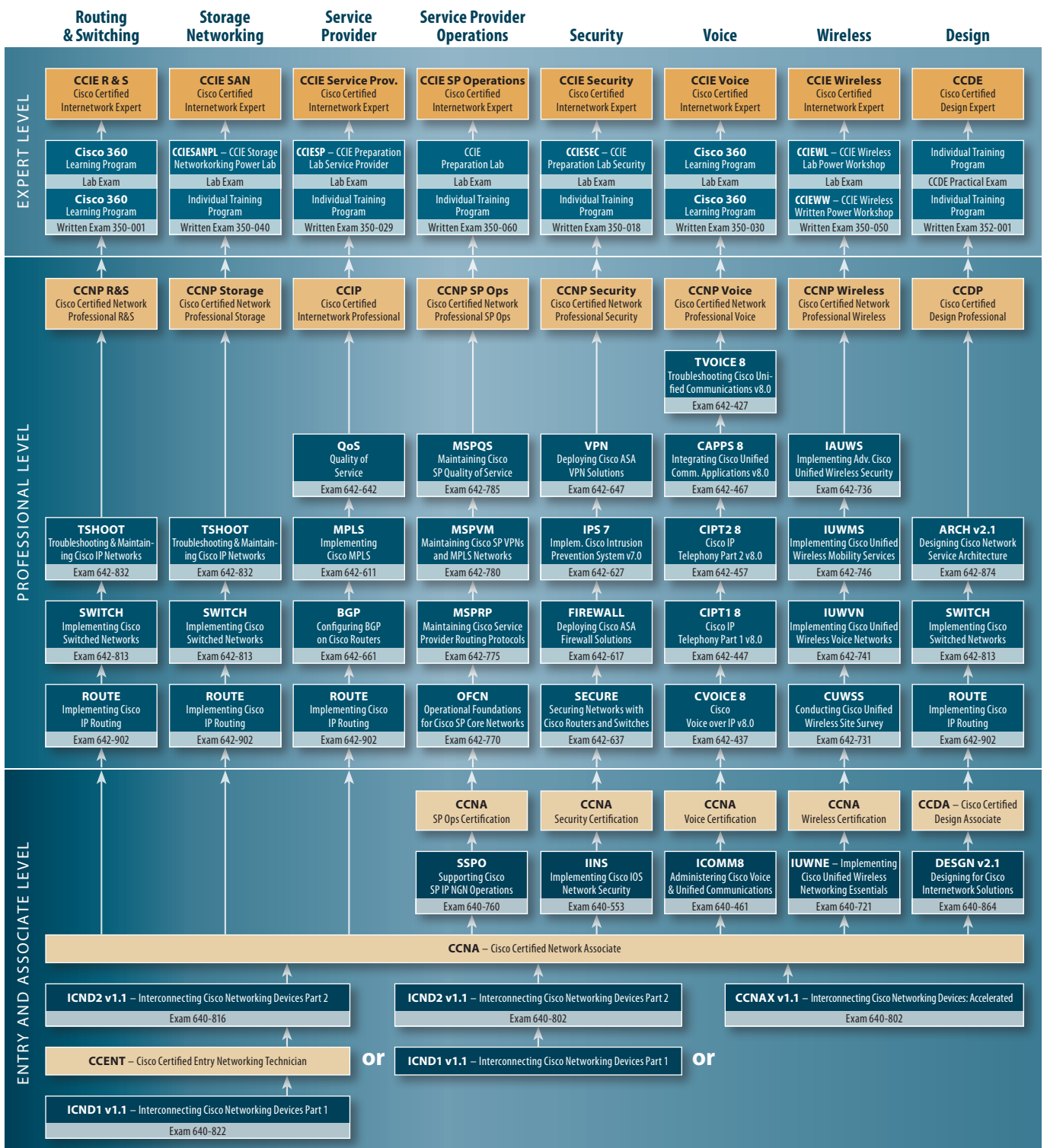
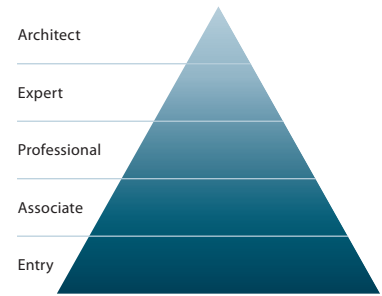
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Cisco certifieringar



Ciscos certifieringar leder till IT-världens bästa kvalitetssäkring. De används i producentledet, leverantör-/integratörsledet och som en karriärväg för den enskilde teknikerin. De räknas som de mest eftersökta kvalifikationerna för nätverks-specialister. Ciscos certifieringar finns i fem nivåer. Basnivåerna är Entry och Associate, mellannivån är Professional. De högsta nivåerna är Expert och Architect.

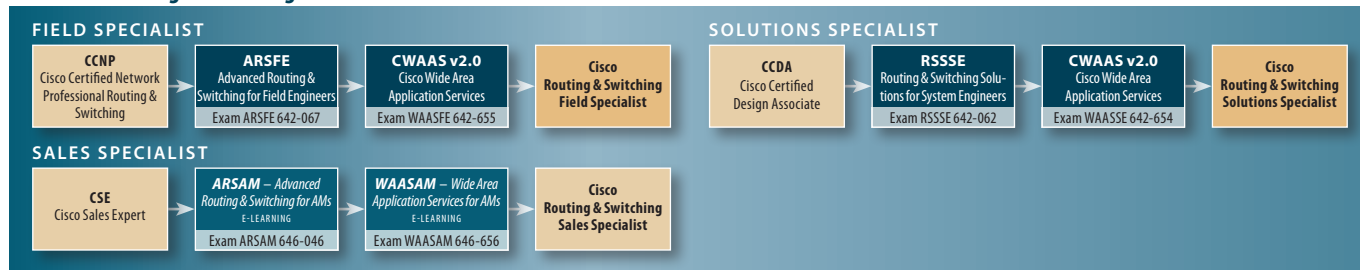
Ciscos certifieringar finns inom åtta olika områden: Routing & Switching, Storage Networking, Service Provider, Service Provider Operations, Security, Voice, Wireless och Design.



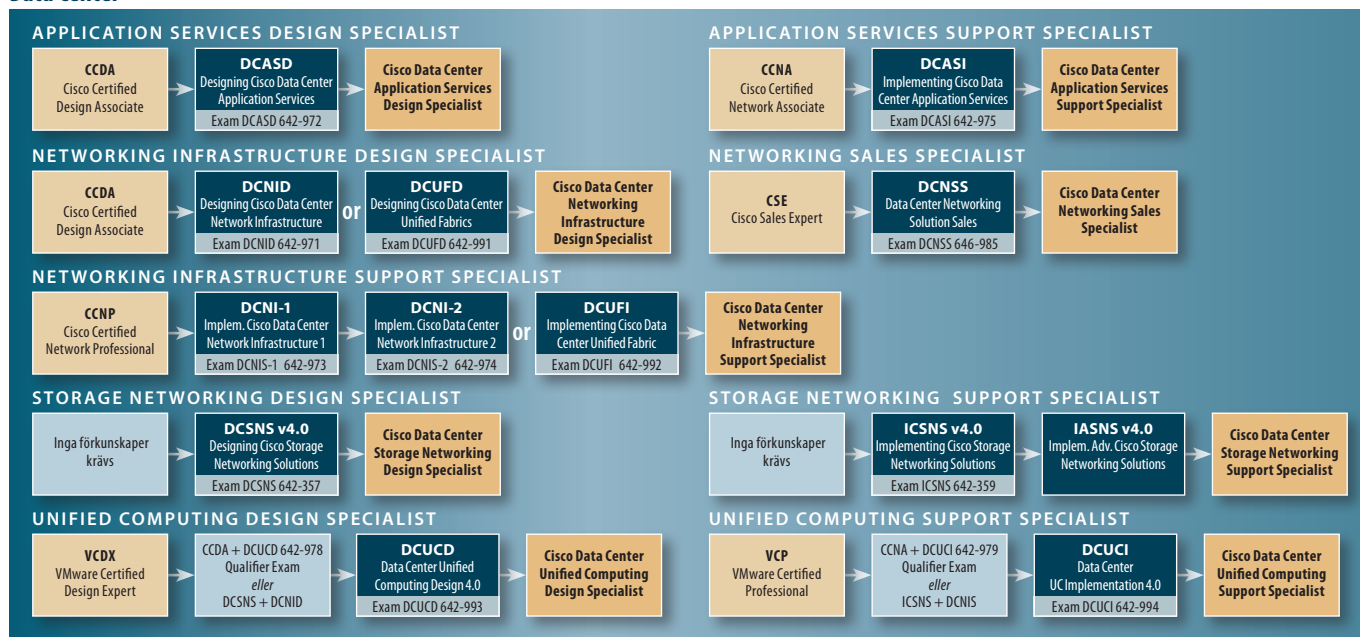
Cisco specialistcertifieringar

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

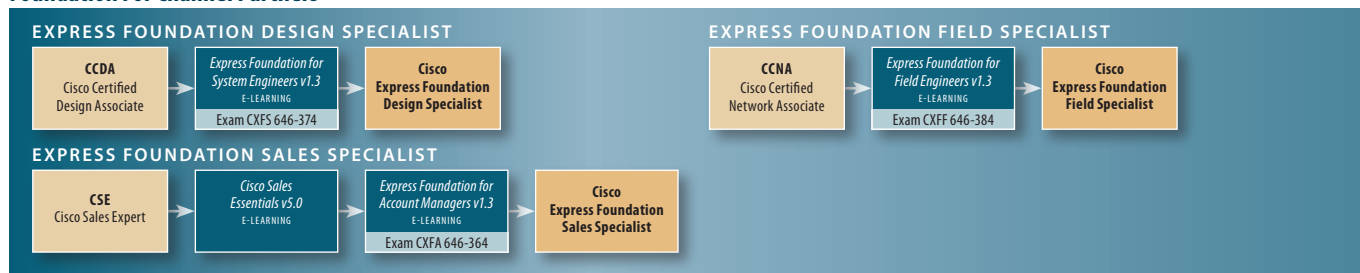
Advanced Routing & Switching



Data Center



Foundation For Channel Partners



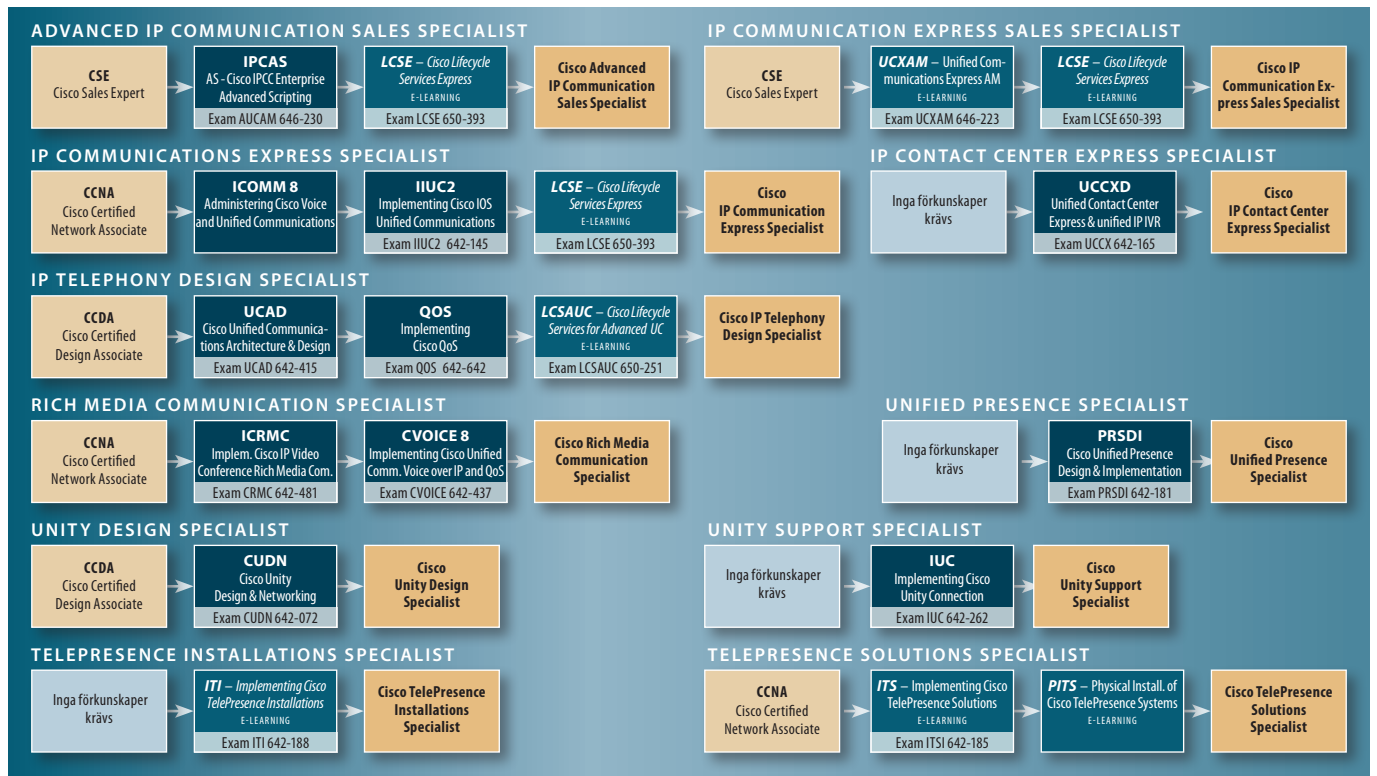
MeetingPlace



Sales



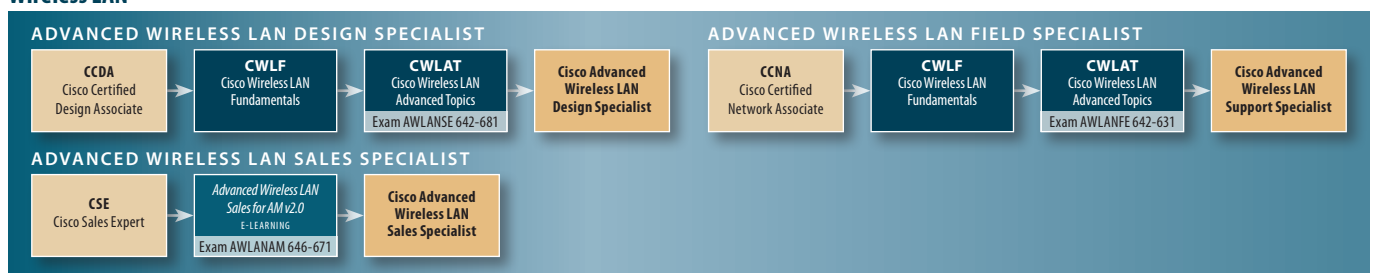
Collaborations



VPN & Security



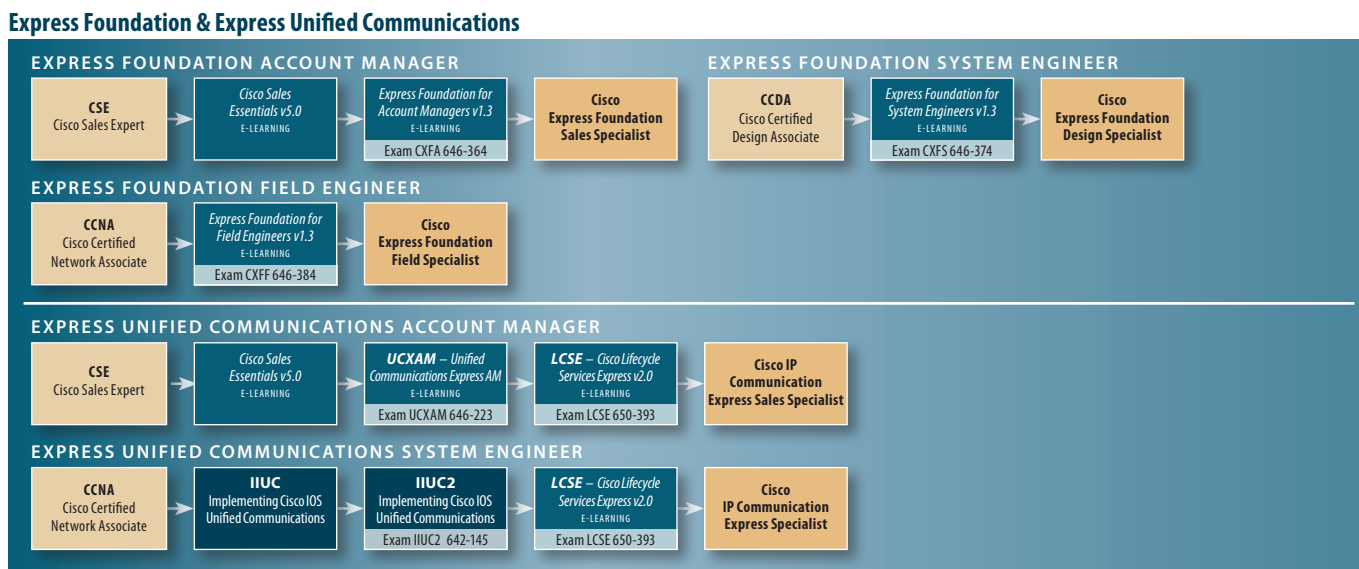
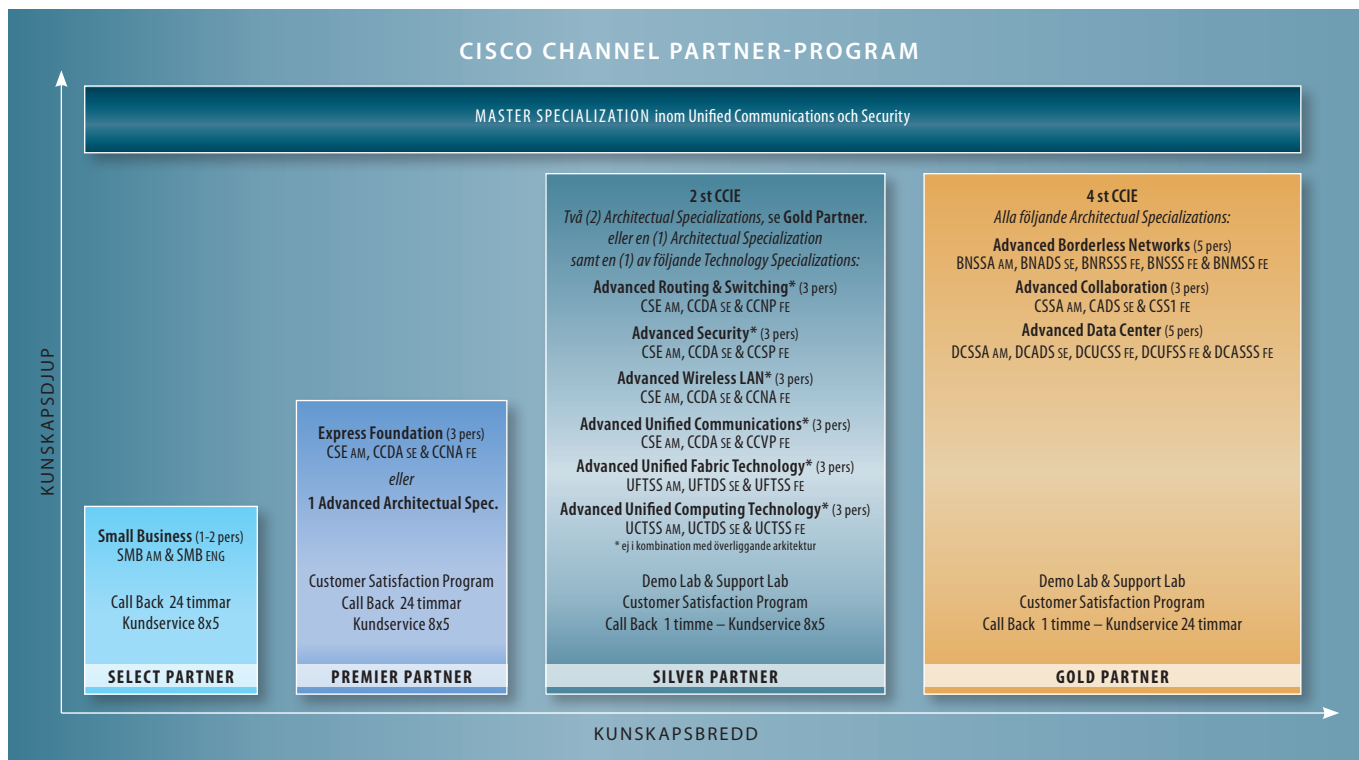
Wireless LAN



Cisco Channel Partner-program

Ciscos certifieringar ger deras återförsäljare möjligheten att differentiera sig och skapa unika erbjudanden. Ciscos Partners delas in i fyra certifieringsnivåer; Select Partner, Premier Partner, Silver Partner och Gold Partner. Channel Partner-programmet har fyra specialiseringsnivåer som visar kunskapsdjupet; Entry, Express, Advanced och Master.

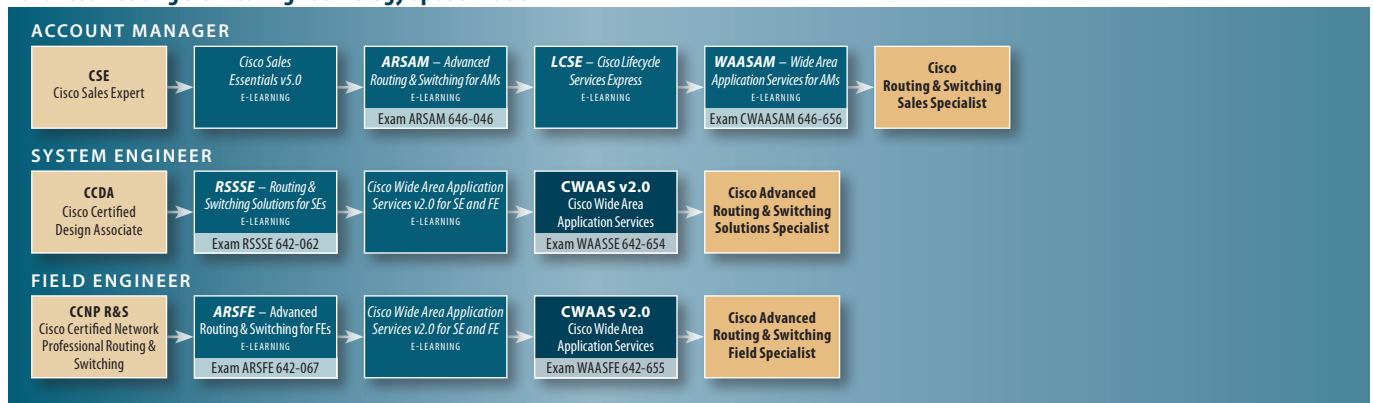
Specialiseringarna delas in i tre Architectural Specializations (Borderless Networks, Collaboration & Data Center) samt sex Technology Specializations (Routing & Switching, Security, Wireless LAN, Unified Communications, Unified Computer & Unified Fabric).



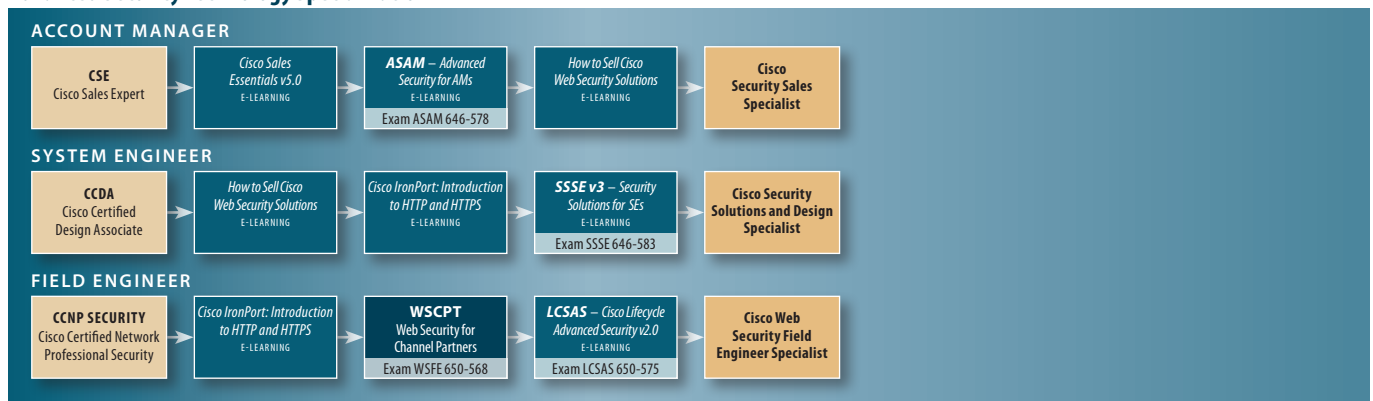
Technology Specializations

Borderless Network Technologies – May not be combined with Borderless Networks Architectural Specialization

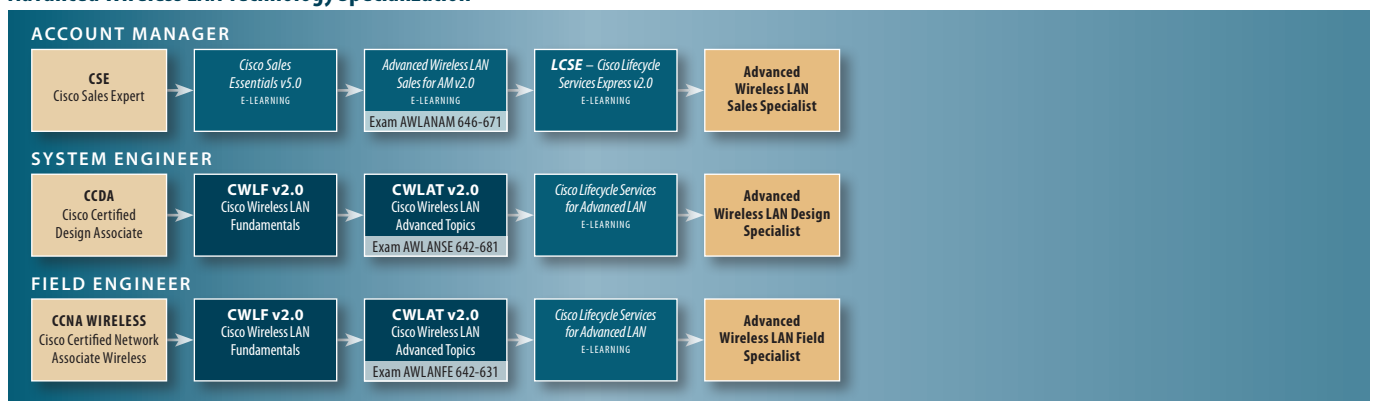
Advanced Routing & Switching Technology Specialization



Advanced Security Technology Specialization



Advanced Wireless LAN Technology Specialization

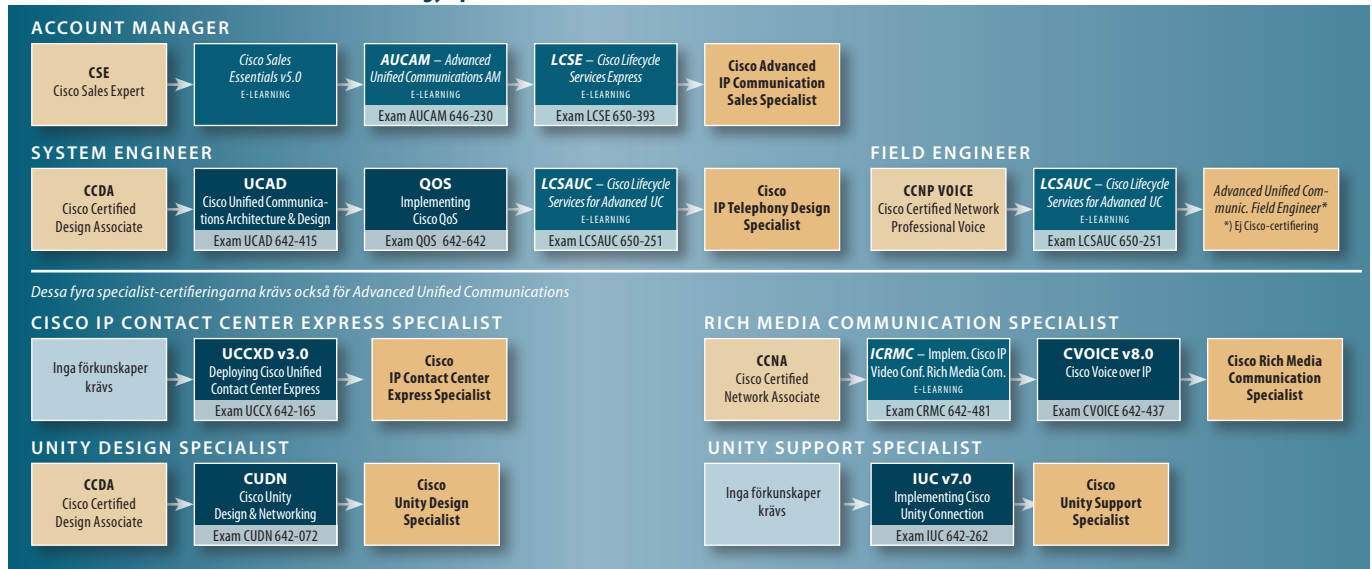


Cisco Channel Partner-program FORTS

Technology Specializations FORTS

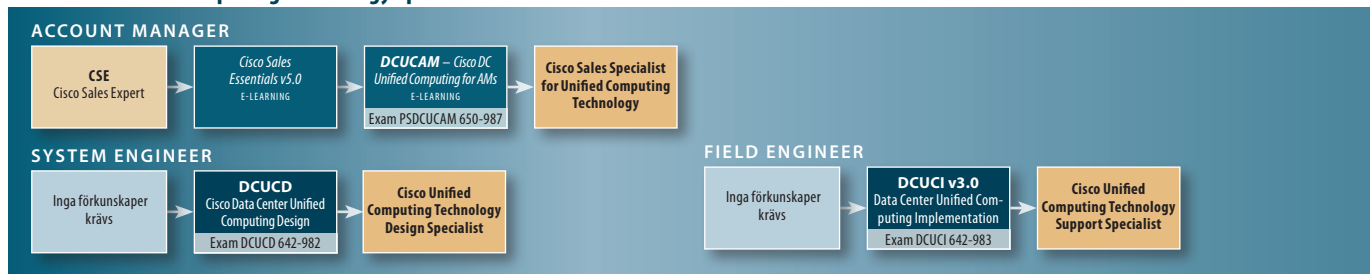
Collaboration Technologies – May not be combined with Collaboration Architectural Specialization

Advanced Unified Communications Technology Specialization

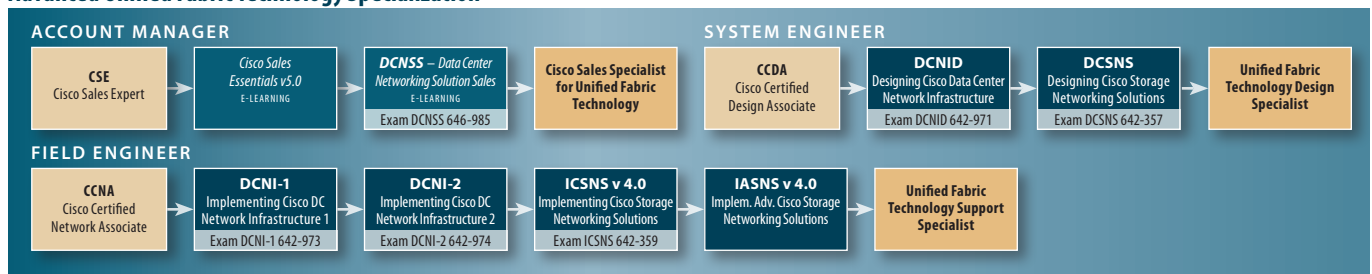


Data Center Technologies – May not be combined with Data Center Architectural Specialization

Advanced Unified Computing Technology Specialization

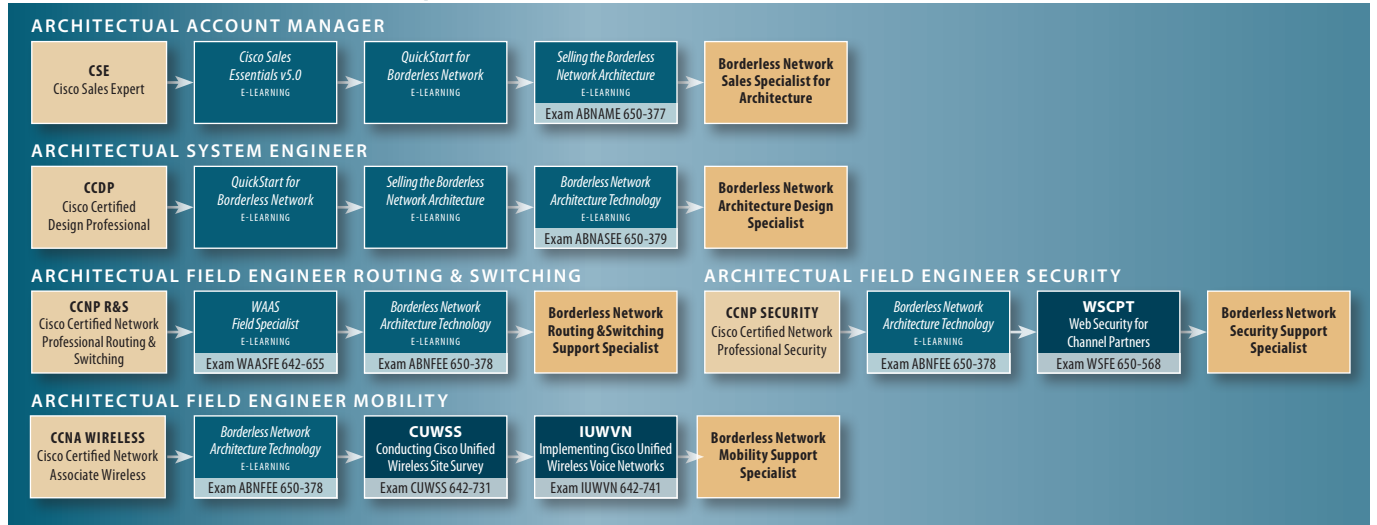


Advanced Unified Fabric Technology Specialization

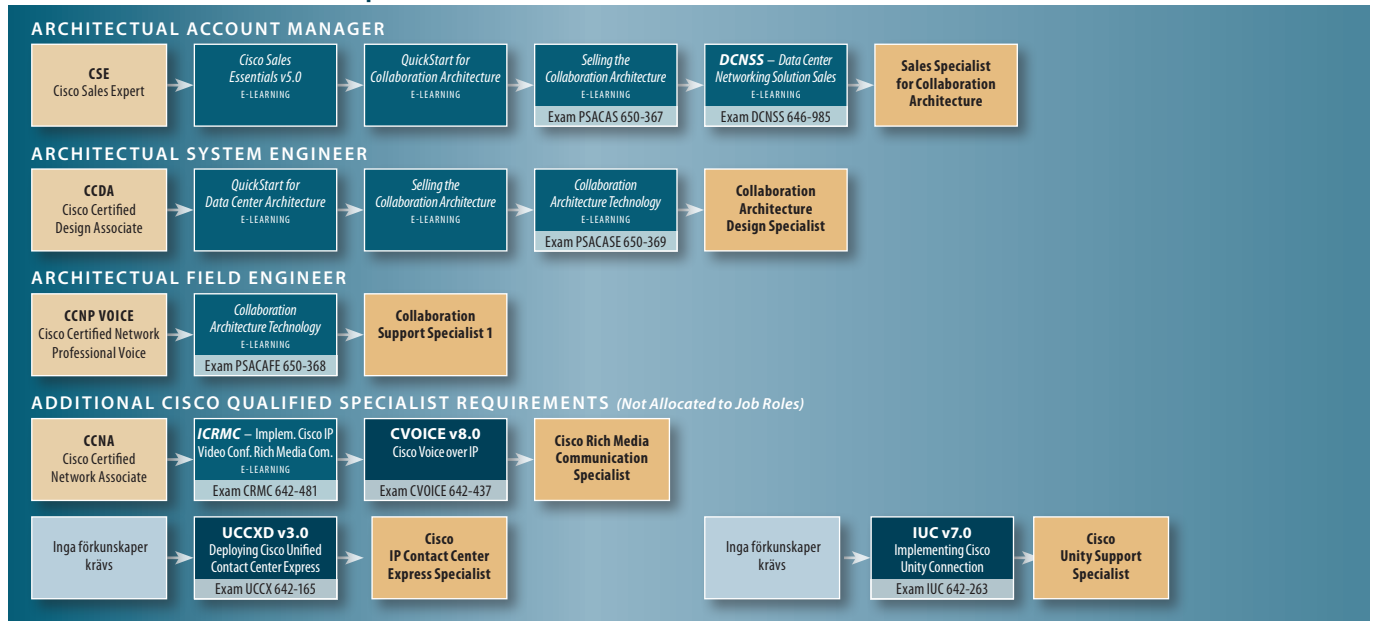


Architectural Specializations

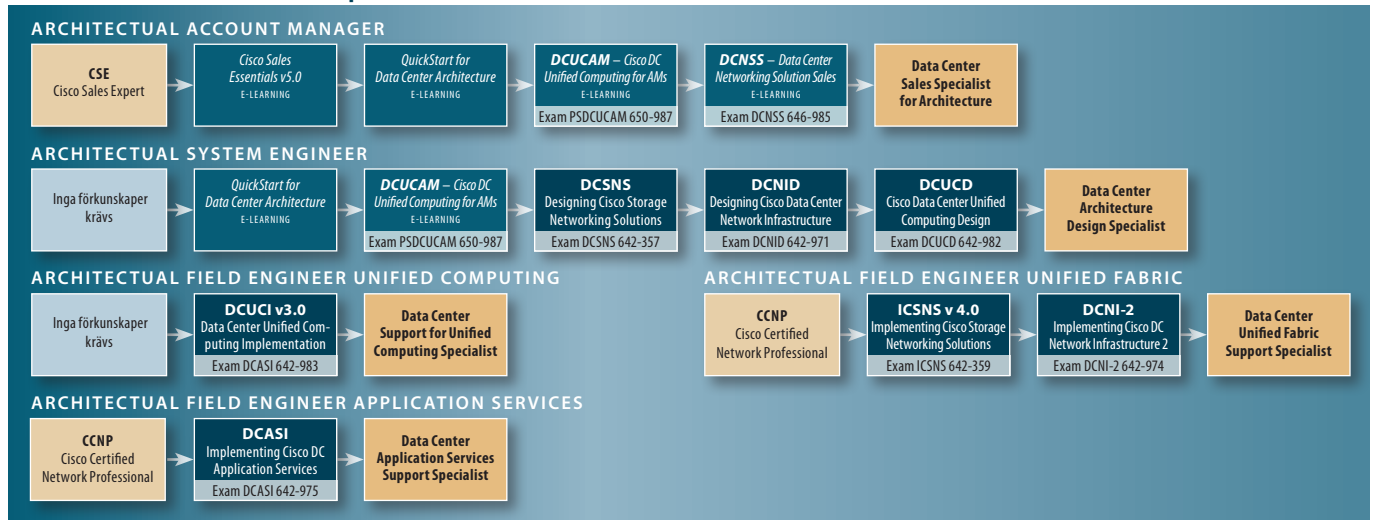
Advanced Borderless Network Architectural Specialization



Advanced Collaboration Architectural Specialization



Advanced Data Center Architectural Specialization



Cisco utbildningar

Fast Lanes Ciscoutbildningar är framtagna för att täcka alla Ciscos teknikområden. Vi på Fast Lane ser till att du och dina anställda har den kompetens som krävs för att maximalt utnyttja din tekniska lösning. Vi levererar den antingen som öppen kurs eller som företagsanpassad. Hos oss eller hos dig.

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 vi håller 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

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

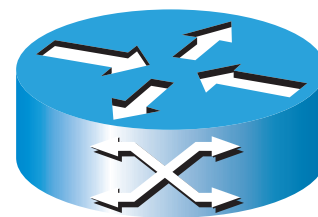


Wireless LAN



CISCO ROUTING & SWITCHING

Routing och Switching är det första steget in i nätverksvärlden. Det är där det börjar och ICND1 och ICND2 ger dig en plattform att bygga din karriär på. 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. ROUTE, SWITCH och TSHOOT ger dig kompetensen som behövs för att få jobbet gjort.



Interconnecting Cisco Network Devices Part 1 (ICND1) **NEW VERSION** 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 of-

fice 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) **NEW VERSION** 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) **NEW VERS.** 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)

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

Duration 5 days Price 24.900 SEK

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

Implementing Cisco IP Switched Networks (SWITCH)

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

Duration 5 days Price 24.900 SEK

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

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

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

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

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)

Duration 5 days Price 24.900 SEK

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

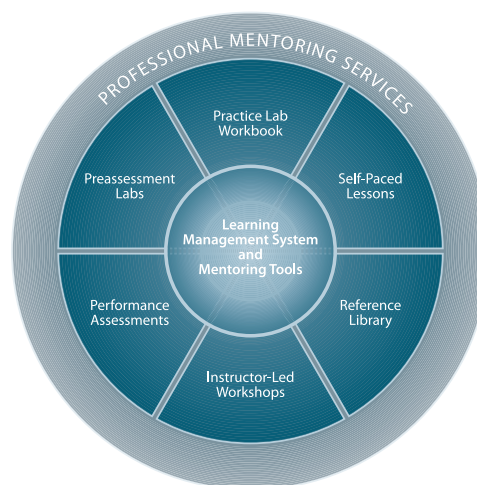


and reinforcing the concepts by putting them to use in a controlled environment. **Prerequisite:** The Student should have a CCNA or equivalent and the knowledge and skills from ROUTE and SWITCH.

Cisco 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, IGP, 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.

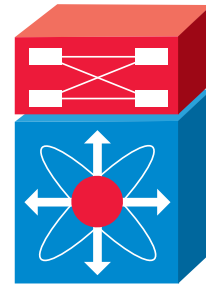
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CISCO DATA CENTER

Cisco är teknikledande inom Data Center. Nexus produktfamilj består av högkompetenta produkter som är både framtidssäkra och skalbara. Med oss kan du lära dig de olika produkterna såväl som kombinationerna av t.ex Cisco, NetApp och VMware, Flexpod, men också andra varianter med andra leverantörer. Vi lär dig hantera hela datacenter-lösningen.



Implementing the Cisco Nexus 1000V (DCNX1K)

After completion of this course the student should be able to: Position the VMware networking solution. Position the Cisco Nexus 1000V Switch in the VMware infrastructure, install the Virtual Supervisor and Virtual Ethernet Modules, and establish an SVS connection to the vCenter Server. Configure the key features of the Cisco Nexus 1000V Switch and understand how these features are used in the data center virtual infrastructure design. Identify which

Duration 3 days Price 19.900 SEK

management features should be implemented on the Cisco Nexus 1000V and how to configure the features selected. Identify which tools can be used when troubleshooting the Cisco Nexus 1000V and how to troubleshoot key features. **Prerequisite:** The Student should have a CCNA, good understanding of the VMware environment. VMware vSphere: Install, Configure, Manage or equivalent. *This course substitutes IDCN1V.*

Implementing the Cisco Nexus 5000 and 2000 (DCNX5K)

The focus is on the key components and procedures required to install, configure, manage and troubleshoot Nexus switches in networks and SAN environments. After providing an overview of the product we give more detail on the functions of a Nexus 5000 switch that are relevant to network configuration and system management. A substantial part of the course also looks at the FCoE protocol (Fibre

Duration 5 days Price 29.900 SEK

Channel over Ethernet) and its optimal configuration. At the end, the participants can put theory into practice and test their knowledge in a number of laboratory exercises. **Prerequisite:** CCNA, good understanding of the Fibre Channel protocol and the SAN environment. Attendance of a Fibre Channel Protocol Class. ICSNS or equivalent. *This course substitutes IDCN5K.*

Implementing the Cisco Nexus 7000 (DCNX7K)

After completion of this course the student should be able to: Identify the chassis and components of the Cisco Nexus 7000 Switch. Identify which management tools are available for the Cisco Nexus 7000 Switch, and configure the relevant management tool. Configure the Cisco Nexus 7000 Switch functions and features. Configure the Cisco

Duration 5 days Price 29.900 SEK

Nexus 7000 Switch security and quality of service features. Troubleshoot key features of the Cisco Nexus 7000 Switch. **Prerequisite:** The Student should have a CCNA and have attended ROUTE and SWITCH or equivalent knowledge. *This course substitutes IDCN7K.*

Implementing Cisco Data Center Unified Fabric (DCUFI)

After completion of this course the student should be able to: Identify the Cisco Nexus product family. Install the Cisco Nexus products in a Cisco Data Center Business Advantage environment. Given a requirement, identify how to plan and implement virtual device contexts into the solution. Evaluate the security features available on the Cisco Nexus 7000 Switch to identify which features should be implemented into a solution. Evaluate and configure the Connectivity Management Processor on the Cisco Nexus 7000 Switch and identify the management options available. Evaluate the service-level and network-level high availability of the Cisco Nexus switches and how to use the Cisco IOS In-Service Software Upgrade feature. Discuss the Fibre Channel protocol including Fibre Channel addressing, flow control, and zoning. Translate a given design into an implementation plan for

Duration 5 days Price 28.900 SEK



configuring Fibre Channel over Ethernet on the Cisco Nexus switch. Understand the processes, tools, and resources for troubleshooting the data center infrastructure, interconnectivity, and operations. **Prerequisite:** The Student should have a CCNA, good understanding of the Fibre Channel protocol and the SAN environment. Attendance of a Fibre Channel Protocol Class. ICSNS or equivalent knowledge. *This course substitutes DCNI-2.*

CISCO DATA CENTER F0RTS

Data Center Unified Fabric Design (DCUFD)

Duration 5 days Price 28.900 SEK

This course teaches you how to design a data center unified network. covers the Cisco high-end switching portfolio, architectural components of Cisco Nexus and Cisco Catalyst switching lines, Cisco IOS and NX-OS software architecture, as well as management from the network design perspective. The course describes how to design a data center network architecture using the above equipment either as an Ethernet-only data center, or as a data center using unified fabric. Also described are the features of these data center class platforms rang-

ing from continuous operation, resiliency, and virtualization to power efficiency and management. Included in the course are also various service modules and line cards for Cisco Catalyst 6500 Series Switches and Cisco ASA 5500 Adaptive Security Appliances. Additionally, this course introduces the Cisco Application Networking Services (ANS) portfolio, including ACE module and ACE appliance.. **Prerequisite:** The Student should have a CCDA or equivalent knowledge. *This course substitutes DCNID.*

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.



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.

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.

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 the ACE Service Module (ACESM)

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,

Duration 4 days Price 23.900 SEK

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.

Cisco Application Control Engine Appliance (ACEAP)

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

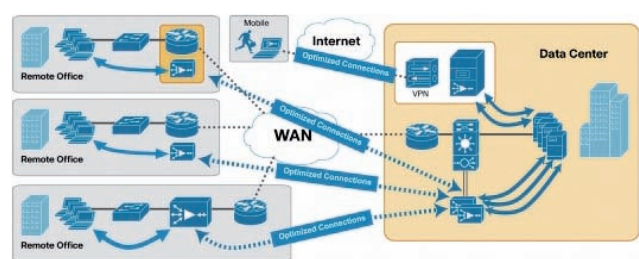
Duration 4 days Price 24.900 SEK

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.

Cisco Wide Area Application Services (CWAAS)

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.

Duration 5 days Price 28.900 SEK



Data Center Unified Computing Implementation 4.0 (DCUCI)

After completion of this course the student should be able to: Understand how Cisco UCS benefits today's Data Center. Understand Cisco's Unified Compute System. Understand User Management. Understand the Chassis Array Manager (CAM) Conceptual Overview. Maintain a Cisco Unified Compute System. Explain the Implementation of Server Resources via the Unified Compute System. Monitoring, Diagnostics

Duration 5 days Price 27.900 SEK

and Troubleshooting the Cisco Unified Compute System. Designing Cisco Unified Compute System Deployment. **Prerequisite:** The Student should have a CCNA and VCP certifications, knowledge of MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level and attended ICSNS and DCUFI (DCNI-2) or equiv.

Data Center Unified Computing Design 4.0 (DCUCD)

After completion of this course the student should be able to: Describe Cisco Data Center virtualization solutions. Identify the Cisco services available to design, install and maintain a Cisco virtualized Data Center. Evaluate an existing Data Center infrastructure in light of a Cisco Data Center virtualization solution. Determine the requirements needed to create a Cisco Data Center virtualization solution. Design a Cisco Data Center virtualization solution based on determined requirements. List the most relevant technical data points to

Duration 5 days Price 27.900 SEK

identify in converting an existing Data Center to a Cisco virtualized Data Center. Given a particular set of Data Center business drivers, identify the success criteria for a Cisco virtualized Data Center solution design. Given a particular Data Center virtualization project, identify the Cisco Data Center virtualization network technologies employed. **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.

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CISCO DATA CENTER FORTS

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.

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)

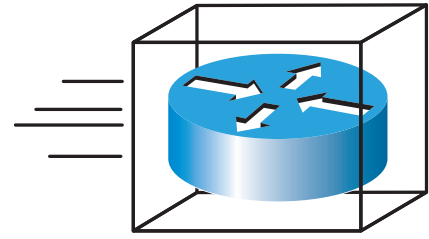
Duration 5 days Price 49.900 SEK

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.



CISCO NETWORK DESIGN

Dagen snabba utveckling inom data och telekommunikation ställer stora krav på flexibilitet. Ciscos nyreviderade design-kurser ger dig de verktyg och det tänkesätt som du behöver för att planera och strukturera framtidssäkra och skalbara nätverk både som arkitekt i stora företag och som PreSale hos en systemintegrator. Design-kurserna är en förutsättning om du skall upp på CCIE-nivå.



Designing for Cisco Internetwork Solutions (DESGN) NEW VERSION

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) NEW VERSION

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.

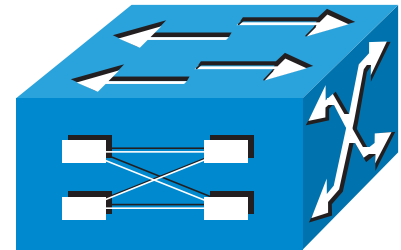
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CISCO COMMUNICATIONS & SERVICES

I operatörsledet ökar kraven ständigt. Utvecklingen drivs till stor del av alla mobila produkter och den frihet de ger. Utbudet av nya tjänster växer explosionsartat. Kraven på snabbhet och säkerhet ökar ständigt. Vi utbildar operatörer i samtliga världsdelar och inom alla olika teknikområden.



Implementing Cisco Quality of Service (QoS)

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

Duration 5 days Price 24.900 SEK

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

Configuring BGP on Cisco Routers (BGP)

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

Duration 5 days Price 24.900 SEK

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

Implementing Cisco MPLS (MPLS)

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

Duration 5 days Price 24.900 SEK

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

Implementing MPLS Traffic Engineering & other Features (MPLST)

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

Duration 5 days Price 27.900 SEK

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



Implementing Cisco Multicast (MCAST) NEW VERSION

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

Duration 5 days Price 27.900 SEK

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

CISCO COMMUNICATIONS & SERVICES FORTS

IPv6 Fundamentals, Design & Deployment (IP6FD) NEW VERSION

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.

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

The CCIE Preparation Lab Service Provider is an intensive, hands-on course which prepares the Students for the challenging CCIE Service Provider Lab exam.

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.

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CISCO SECURITY

Mobilitet och möjligheten till olika media ökar kraven på säkerhet i näten. Illlojala attacker är ett växande problem. Med hjälp av Ciscos säkerhetskoncept kan du lära dig att effektivt skydda ditt nät från angripare.



Implementing Cisco IOS Network Security (IINS)

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

Duration 5 days Price 24.900 SEK

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

Securing Networks with Cisco Routers & Switches (SECURE)

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

Duration 5 days Price 24.900 SEK

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

Deploying Cisco ASA Firewall Features (FIREWALL)

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

Duration 5 days Price 24.900 SEK

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



Deploying Cisco ASA VPN Solutions (VPN)

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

Duration 5 days Price 24.900 SEK

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

Implementing Cisco Intrusion Prevention System (IPS 7) **NEW VERSION** **Duration 5 days** **Price 24.900 SEK**

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

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

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.

RADIUS & TACACS+ with the Cisco Access Control Server (ACS) **Duration 3 days** **Price 19.900 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 activi-

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

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

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

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CISCO IRONPORT SECURITY

Securing Your Email with IronPort C-Series Part 1 (SYE1)

Duration 2 days Price 14.900 SEK

This comprehensive course provides a thorough foundation on how to successfully install, configure, and administrate IronPort email security appliances. Attendees will gain a working knowledge of how to use IronPort email security appliances to successfully manage and troubleshoot email traffic entering and leaving the enterprise network. Attendees will also learn about Internet email concepts and

standards, and will receive an overview of other features that can be used for more customized configurations. **Prerequisite:** The Student should have solid knowledge of TCP/IP fundamentals, including IP addressing, static IP routing and DNS. Furthermore the Student should have experience with Internet-based messaging, including SMTP and MIME and strong familiarity with AsyncOS CLI and GUI configuration.

Securing Your Email with IronPort C-Series Part 2 (SYE2)

Duration 1 day Price 7.500 SEK

This course provides advanced information for successful configuration and operation of an IronPort email security appliance. Mail administrators will receive in-depth training to meet specific needs with emphasis on: Using message filters to redirect and modify messages. Safe deployment and debugging of message filters. Integrating with a directory server via LDAP. Debugging of LDAP integration issues. Transport Layer Security. Troubleshooting and problem solving.

Prerequisite: The Student should have experience configuring IronPort email security appliances through participation in the IronPort Configuration Workshop or equivalent working experience. Solid knowledge of TCP/IP fundamentals, including IP addressing, static IP routing and DNS. Furthermore the Student should have experience with Internet-based messaging, including SMTP and MIME and strong familiarity with AsyncOS CLI and GUI configuration.

Securing Your Email with IronPort C-Series Power Workshop (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 in-depth 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 addressing, static IP routing and DNS. Furthermore the Student should 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.

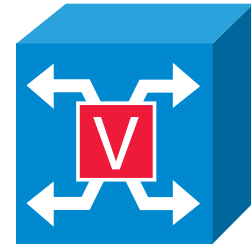
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CISCO UNIFIED COMMUNICATIONS

Ciscos koncept för Voice är marknadens starkaste och täcker allt från enkel telefoni till presence och mötestjänster. Vi lär dig hur du skall bygga upp ditt koncept för maximal effektivitet och frihet.



Introducing Cisco Voice and Unified Communications Administration (ICOMM 8)

Duration 5 days

Price 24.900 SEK

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

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

Implementing Cisco IOS Unified Communications Part 2 (IIUC2)

Duration 5 days

Price 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 addition Unified Messaging Gateways (UMG), and PSTN calling will be configured. Students will configure CUE voicemail networking and VPIM. Operation and troubleshooting will include tracing and debugging of CME, CUE and UMG. **Prerequisite:** The Student should have CCNA or equivalent knowledge and attended ICOMM8.



Implementing Cisco Unified Communications Voice over IP and QoS (CVOICE 8)

Duration 5 days

Price 24.900 SEK

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

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

Implementing Cisco Unified Communications Manager 1 (CIPT1 8)

Duration 5 days

Price 24.900 SEK

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

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

Implementing Cisco Unified Communications Manager 2 (CIPT2 8)

Duration 5 days

Price 24.900 SEK

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

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

CISCO UNIFIED COMMUNICATIONS FORTS

Troubleshooting Cisco Unified Communications (TVOICE 8)

Duration 5 days Price 24.900 SEK

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

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

Integrating Cisco Unified Communications Applications (CAPPS 8)

Duration 5 days Price 24.900 SEK

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

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

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.

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.

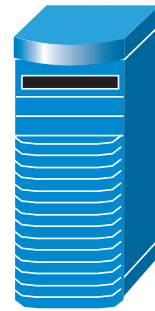
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CISCO UNIFIED CONTACT CENTER

Ett Call Centers viktigaste byggsten är telefonin. Ciscos applikationer för Call Center är uppbyggda på marknadsledande teknik. Marknadens ledande Call Center använder Cisco för att effektivisera sin kundbearbetning. Vi har kurserna och instruktörerna som hjälper dig att få ut maximalt av ditt Call Center.



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 configuration of a Call Manager.

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.



TELEPRESENCE

Implementing Express TelePresence Video Solutions (PAIETVS)

Duration 2 days Price 14.900 SEK

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

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

Implementing Advanced TelePresence Video Solutions Part 1 (PAIATVS1)

Duration 5 days Price 31.900 SEK

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

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

Implementing Advanced TelePresence Video Solutions Part 2 (PAIATVS2)

Duration 5 days Price 31.900 SEK

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

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

Installing TelePresence Video Immersive Solutions (PAITVIS)

Duration 2 days Price 14.900 SEK

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



Implementing Cisco UC Manager for Cisco TelePresence Video (PAIUCMTV)

Duration 3 days Price 21.900 SEK

This course prepares you to implement a Cisco UC Manager solution focused on supporting a Cisco TelePresence video conferencing solution. It focuses primarily on Cisco Unified Communications Manager v8.0 and its call routing and signaling component for the Cisco UC solution. You will perform Cisco UC manager post-installation tasks, configure endpoints such as deploying a Cisco TelePresence system onto a Cisco UC solution, configure Cisco UC Manager for a video network, implement Media Gateway Control Protocol (MGCP) and H.323 gateways, and build dial plans to place on-net and off-net phone

calls. You will also implement QoS for internal calls, incoming PSTN calls, and out going PSTN calls. **Prerequisite:** The Student should have working knowledge of fundamental terms and concepts of computer networking, including LANs, WANs, and IP switching and routing. Ability to configure and operate Cisco routers and switches and to enable VLANs and DHCP. Basic understanding of digital interfaces, PSTN, and VoIP. Fundamental knowledge of converged voice, video, and data networks. Ability to configure Cisco IOS gateways with traditional and VoIP call legs.

TELEPRESENCE **FORTS**
Physical Installation of Cisco TelePresence Systems (PITS)
Duration 2 days Price 13.900 SEK

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

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

Implementing Cisco TelePresence Solutions (ITS)
Duration 4 days Price 23.900 SEK

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

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

Implementing Cisco TelePresence Solutions Immersive (ITSI)
Duration 5 days Price 29.900 SEK

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


Advanced Services - Designing the Cisco TelePresence Solution (TPDSG) Duration 1 day Price 8.900 SEK

The purpose of this VTS is to provide detailed design guidance for the Cisco TelePresence solution. It should prepare technically qualified network designers to create TelePresence design proposals. These

network design proposals can also provide the basis for ordering of components and detailed design work. **Prerequisite:** The Student have a CCNA and CCDA or equivalent knowledge.

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DIGITAL MEDIA SUITE

Digital Media Suite (DMS)

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.

Duration 3 days Price 17.900 SEK



Cisco Academy of Digital Signage (ADS)

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

Duration 2 days Price 19.900 SEK

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)

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.

Duration 3 days Price 17.900 SEK

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)

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

Duration 5 days Price 29.900 SEK

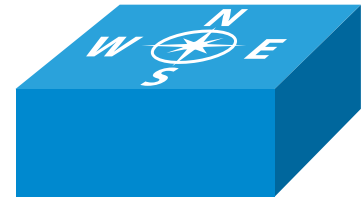
installation and configuration, troubleshooting, monitoring and debugging. Knowledge is reinforced by hand-on labs. **Prerequisite:** The Student should have attended CIPT1 and have working knowledge of: Converged voice and data networks, SIP, MGCP, and H.323 protocols and their implementation on Cisco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

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Trådlösa nät slår ut de trådbundna. Mobila kommunikationslösningar tar över mer och mer. När kreativiteten ökar ökar även kraven på tillgänglighet, hastighet, och säkerhet. Vi har kompetensen och erfarenheten att lära ut både hur man ska göra och hur man inte ska göra.



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 Fun-

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

Conducting Cisco Unified Wireless Site Survey (CUWSS) **Duration 5 days Price 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 / MOBILITY
FORTS
Cisco Wireless LAN Fundamentals (CWLF) NEW VERSION
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) NEW VERSION
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 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 prin-

ciples, 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.

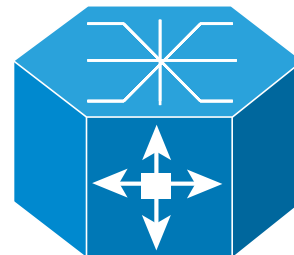
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CISCO OPTICAL

Optical Training behandlar transmission via fiber. Våra instuktörer utbildar branschens samtliga användare både via Ciscos lab i Texas och Italien (Monza) och via våra egna remote labs.



Optical Technology Fundamentals (OTF)

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

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

Cisco Transport Manager Operation & Maintenance (OCTMO)

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

Duration 2 days Price 16.900 SEK



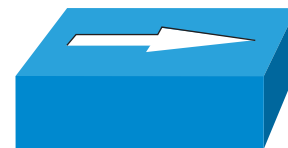
equipment, including the following basic SONET or SDH knowledge: Payload and overhead, Topologies, and Protection. It is also recommended that the Student have attended OSTPO.

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.

Om du skall arbeta med att sälja Ciscos produkter och lösningar är det vettigt att gå en säljutbildning. På Cisco Sales lär du dig Ciscos produkter och lösningar och hur de olika delarna fungerar med varandra.



Cisco Sales Essentials (CSE)

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

Duration 2 days **Price 9.900 SEK**

Account Managers and System Engineers wishing to pass the Cisco Sales Essentials exam.

Prerequisite: None.

Cisco Sales Expert – Data Center (CSDC)

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

Duration 2 days **Price 11.900 SEK**

(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)

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

Duration 2 days **Price 11.900 SEK**

Understanding 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.

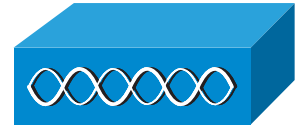
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CISCO ADVANCED SERVICES

Genom oss på Fast Lane har du möjlighet att delta på Cisco Advanced Services Educations kurser. Alla kurserna håller en väldigt hög teknisk nivå och bara de allra bästa instruktörerna i världen får köra dem.



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 & SWITCHING

- 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)



Fast Lanes egna kurser skrivs av samma instruktörer som skriver kurserna till Cisco och NetApp. Avsikten är att kunna erbjuda ett leverantörsberoende sortiment som täcker luckorna emellan de olika leverantörernas utbud.

FAST LANE DATAKOM

Networking & TCP/IP Fundamentals (NWF)

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

Duration 3 days **Price 12.900 SEK**

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

Troubleshooting TCP/IP Fundamentals (TTCP)

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

Duration 2 days **Price 9.900 SEK**

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

FAST LANE STORAGE

Storage Foundation (FL-SAN)

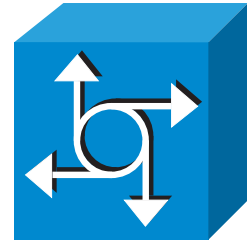
This course gives an overview of the design and concepts of storage technology as well as covering vendor specific features and protocols. Among the topics are, Basic overview, Protocols, Components, NAS

Duration 5 days **Price 29.900 SEK**

and SAN features, Design and Implementation, and Storage Market Overview. **Prerequisite:** The Student should have attended NWF and TTCP.

FAST LANE NÄTVERKSANALYS MED WIRESHARK

Våra kurser inom nätverksanalys är unika då de är skrivna för att lära nätverksproffs att arbeta både snabbare, enklare och effektivare. Du får de metoder och tekniker som behövs för veta var du skall leta och därmed snabbare lokalisera problemkällorna. Om du är CCNA eller CCIE spelar ingen roll. Du kommer att få en aha upplevelse ändå. Detta kan vara din bästa investering någonsin.



Packet Analysis with Wireshark Analyzer (PAW)

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

Duration 2 days Price 9.900 SEK

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)

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.

Duration 3 days Price 14.900 SEK



Packet Analysis Power Workshop (PAPW)

Participants will receive a comprehensive introduction into the features, functions and the usage of the Wireshark Analyzer and will learn methods and techniques about monitoring and analysis of their networks from the packet level. This course will also focus on the

Duration 5 days Price 23.900 SEK

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)

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

Duration 3 days Price 14.900 SEK

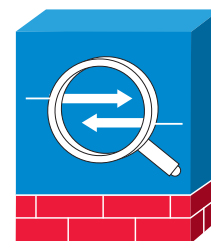
With the help of the Wireshark analyzer typical network traffic is analyzed and potential problems are discussed. **Prerequisite:** The Student should have attended NWF and PAPW.

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Fast Lanes säkerhetskurser är skrivna av proffs för proffs. Ur ett arbetsperspektiv lär vi ut de tankesätt, förhållningssätt och metoder du behöver för att hantera nätverkssäkerhet. Vi kommer med fler kurser under året. Håll ett öga på www.fastlanenordic.com.



RADIUS and TACACS+ with the Cisco Access Control Server (FL-ACS) Duration 3 days Price 19.900 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 activi-

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

ANTI-HACKING Workshop (HACK)

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

Duration 5 days Price 19.900 SEK

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

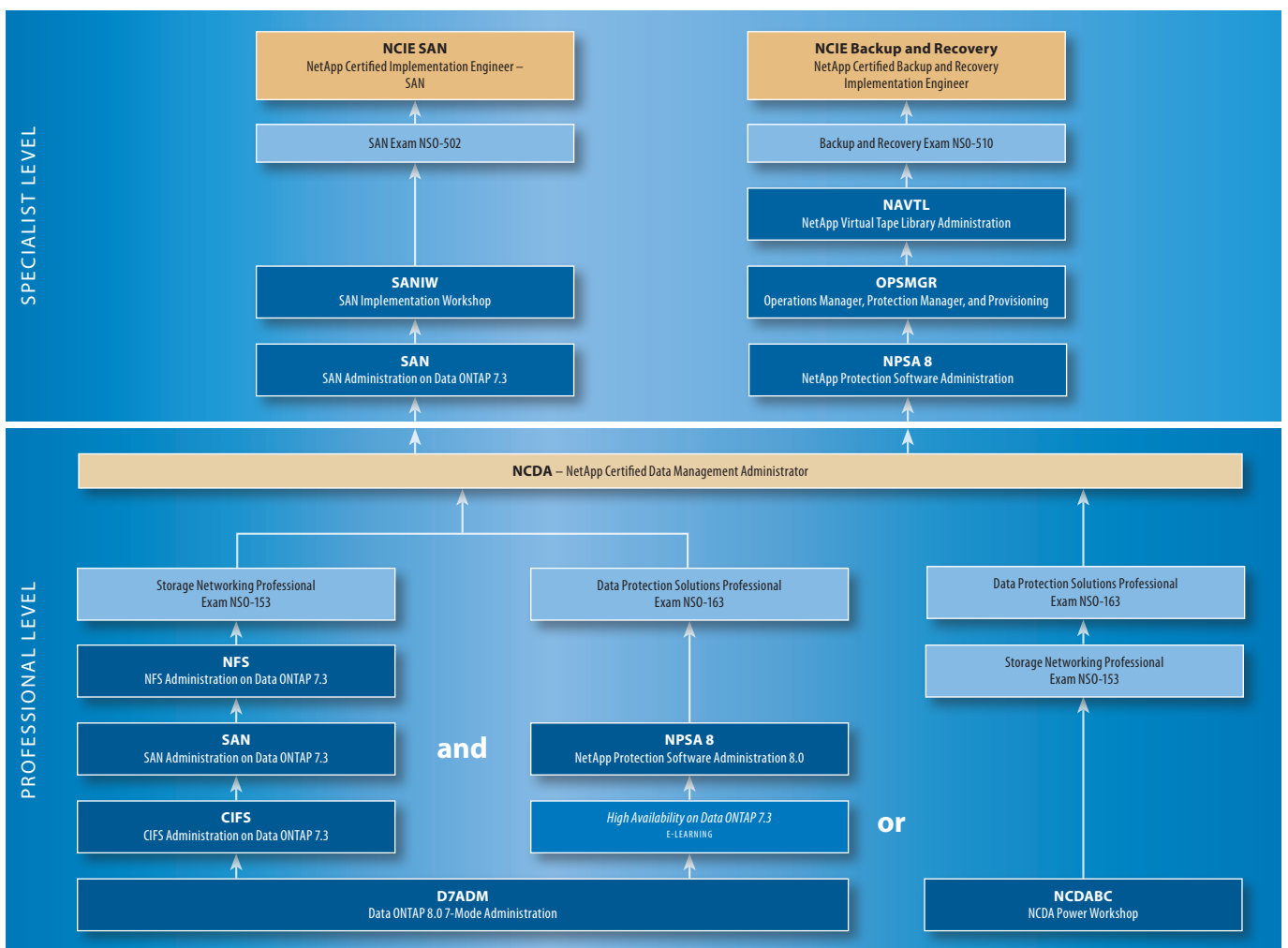
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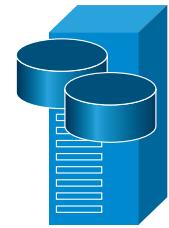
NetApp certifieringar

NetApps certifieringar har blivit tydligare, starkare och mer efterfrågade i branschen. När ett företag har den framgång som NetApp haft blir det intressantare att dokumentera kunskapen då intresset att bli partner ökar såväl som konkurrensen om jobben. Dokumentera din resa inom NetApp genom att certifiera dig. Vi hjälper dig med råd och riktigt bra kurser.



NETAPP STORAGE BASIC & INTERMEDIATE TRAINING

NetApp är en ledande aktör i storagevärlden. Snabba och kostnadseffektiva lösningar kombinerat med en hög flexibilitet gör att NetApp passar bra att kombinera med lösningar från aktörer som Cisco, VMware och Cistrix. Vi lär dig alltihop med våra Multi Tenancy-kurser som FLEX och IESMT.



Data ONTAP 7-Mode Administration (D7ADM)

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

Duration 5 days Price 44.900 SEK

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

Prerequisite: The Student should have introduction to Data ONTAP by way of any Data ONTAP fundamentals webbased training course.

Accelerated NCDABoot Camp Data ONTAP 8.0 7-Mode (ANCDABC87) **Duration 5 days Price 58.900 SEK**

This course is to prepare for success when taking the NCDABoot 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.



NetApp Protection Software Administration (NPSA8) **NEW VERSION** **Duration 2 days Price 17.900 SEK**

This course will teach the Student how to administer the data protection technologies that are built into Data ONTAP 7.3 and Data ONTAP 8.0 including how to use Snapshot, SnapRestore, SnapVault, Open Systems SnapVault, and SnapMirror software to replicate and restore mission-critical enterprise data. Learn how to use the command line to manage data protection and how to use NetApp Protection Man-

ager to automate the complexities of setting up and managing data protection. This course provides lectures and demonstrations that give you the information that you need and engages you in hands-on exercises that give you the experiences that you need. **Prerequisite:** The Student should have attended DOTF.

Data ONTAP 8.0 Cluster-Mode Administration (DOT8CLUSTER) **Duration 3 days Price 26.900 SEK**

Data ONTAP 8.0 is the next generation data storage operating system from NetApp. It combines the stability of Data ONTAP 7G with the cutting-edge scalable clustering of Data ONTAP GX. In this course, you will learn the evolution of Data ONTAP clustering, understand the benefits of the product, be able to explain the architecture and

functionality of a Data ONTAP cluster, and be able to install, configure, manage, and troubleshoot Data ONTAP clusters. **Prerequisite:** The Student should have a working knowledge of network-attached storage systems. DOTF or D7ADM is recommended.

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 or D7ADM.

Data ONTAP NFS Administration (NFS) **Duration 1 day Price 8.900 SEK**

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

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

NETAPP STORAGE BASIC & INTERMEDIATE TRAINING **PORTS**

Data ONTAP SAN Administration (SAN)

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 or D7ADM.

Duration 3 days Price 26.900 SEK

NCDA Boot Camp (NCDABC)

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: D7ADM, CIFS, NFS, NPSA, SAN, and NAHA.

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

Duration 10 days Price 89.000 SEK



Business Continuity (BCON)

This course combines the old MetroCluster and High Availability courses. The content consists of: Backing up storage systems with redundant setups. Employing mechanisms to protect data. Ensuring storage systems' high availability. Conducting an SPOF analysis. Implementing an HA solution. Upgrading a storage system to an HA solution. Multi-path HA cabling Failover scenarios. Protocol behavior

Duration 3 days Price 26.900 SEK

in case of failover. Troubleshooting and optimising systems. Fibre Channel Fabric Basics. Analysis of existing Storage systems. Configuration of the components. Installation of a Cluster & Cabling. SnapMirror Configuration & Administration. Disaster Recovery. Troubleshooting in MetroCluster environments. **Prerequisite:** The Student should have attended DOTF or D7ADM.

Performance Analysis on Data ONTAP (PAD)

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 or D7ADM.

Duration 3 days Price 26.900 SEK

Achieving Storage Efficiency with NetApp Storage Systems (ASE)

The Student will learn how to maximize storage efficiency and storage utilization on your NetApp storage system. The benefits of, and how to use, NetApp storage efficiency products and features such as RAID-DP, Snapshot, and FlexClone technologies; Flash Cache; thin provisioning; thin replication; and deduplication. Review the technical basis of the NetApp storage efficiency capabilities and how to measure the storage savings. Performing hands-on exercises, practice configuring and managing NetApp products and features, and applying NetApp technologies to common use cases. **Prerequisite:** The Student should have attended DOTF or D7ADM.

Duration 3 days Price 26.900 SEK

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NETAPP ADVANCED TECHNOLOGY TRAINING

NetApp SANscreen Fundamentals (SANSF)

Learn the features and functions of the SANscreen suite of products. This hands-on course will show you how SANscreen manages and supports multiprotocol storage systems 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,

Duration 3 days Price 26.900 SEK

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 basic working knowledge of Fibre Channel and storage networking and completed the Web based Training "SANscreen Deployment".

SAN Implementation Workshop (SANIW)

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

Duration 3 days Price 26.900 SEK

hosts; Install and use SnapDrive to create, Snapshot, and restore LUNs from a Snapshot copy, and remove LUNs; Size, clone, back up and recover LUNs on hosts; and Troubleshoot SAN connectivity and performance issues. **Prerequisite:** The Student should have a NCPA or equivalent knowledge.

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 or D7ADM.

NetApp VTL Administration (NAVTL)

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

Duration 3 days Price 26.900 SEK

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.

Oracle on NetApp Storage Systems (NAOR)

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

Duration 5 days Price 44.900 SEK

administration, NetApp Filer administration and knowledge in UNIX/Linux and/or Windows.



VMware vSphere on NetApp (VVNA)

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

Duration 5 days Price 44.900 SEK

and NetApp storage systems in a high availability scenario. Provide practical scenarios for implementing ESX/vSphere on NetApp utilizing utilities from both environments. **Prerequisite:** The Student should have knowledge on NetApp storage systems, VMware ESX, Linux and Windows servers.

NETAPP MULTI-TENANCY / VENDOR TRAINING
Imagine Virtually Anything – FlexPod Architecture (FLEX)
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 (Consolidation, Virtualisation, Integration, Automatisering), Customer requirements, Cisco Data Center 3.0, Unified Fabric Concept, Dynamic Data Center, Virtualisation, Cloud Infrastructures and Market Trends. **Prerequisite:** None.


Implementing Enhanced Secure Multi-Tenancy (IESMT)
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.

VMware vSphere on NetApp (VVNA)
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. Provide practical scenarios for implementing ESX/vSphere on NetApp utilizing utilities from both environments. **Prerequisite:** The Student should have knowledge on NetApp storage systems, VMware ESX, Linux and Windows servers.

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

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

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

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.

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

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

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NETAPP PARTNER TRAINING**NetApp Hands on Installation Workshop (HOIW)****Duration 3 days Price 14.900 SEK**

This course prepares you to deliver installation services – meeting NetApp quality standards and using NetApp best practices. Using your laptop, and the appropriate tools, you practice all installation tasks and set up NetApp equipment in a highavailability configuration. You learn how to set up customer NOW (NetApp on the Web) accounts, register equipment, test the AutoSupport Connection, and conduct a customer briefing. Successful completion of the final practical exam will give you confidence to deliver quality installation services. **Prerequisite:** The Student should have done Introduction to NetApp Products. FAS3000 and FAS6000 Hardware Maintenance. NetApp Hardware and Software Installation Fundamentals. Data ONTAP Fundamentals. Additional courses listed in the APSP NCCA Training Path.



MULTI VENDOR TRAINING

What's New vSphere 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 4: Install and Configure, or equivalent experience.



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

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 center architectures and protocols. Students who have already attended 4.X VMware training should take the "What's New" class.

Implementing Vblock (VBLOCK-TECH)

Duration 5 days Price 34.900 SEK

Implementing Vblock provides a detailed understanding of how to integrate EMC² storage, Cisco Unified Computing System, Cisco Nexus 1000V switches, and VMware vSphere to create a shared, virtualized computing environment. EMC² storage serves as the storage foundation, 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 a highly flexible computing environment, ready for your private cloud. **Prerequisite:** The Student should have knowledge of Switching, Routing, Data Center Architecture and protocols, VMware ESX server virtualization, vSphere EMC² storage, and Backup and disaster recovery technologies.

Selling Vblock (VBLOCK-SALES)

Duration 1 day Price 9.900 SEK

Selling Vblock focuses on how to sell and position Vblocks and how to actively engage customers in discussion about the value and impact Vblocks can have on their business. You will learn to understand the VCE coalition and why it was formed, to articulate the value of Vblocks

to a customer, to compare and contrast Vblock versus other solutions, to understand our target market and target profile and to align a Vblock solution with a customer's needs. **Prerequisite:** The Student should have good understanding of the Data Center environment.

**Se aktuellt schema och boka dina kurser direkt på www.fastlanenordic.com.
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Vill du fråga något och söker oss efter kontorstid eller tycker det är smidigare går det också bra att maila på info@fastlanenordic.com.**

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



VMware vSphere 5: What's New (VIWN)

This hands-on training course explores new features in VMware vCenter Server 5.0 and VMware ESXi 5.0. Topics include VMware vSphere 5 installation and how to upgrade from vSphere 4.x to

Duration 2 days Price 12.550 SEK

vSphere 5.0. 5.0 is the first version of vSphere to include only the ESXi hypervisor. **Prerequisite:** The Student should have completed VICM 4 or equivalent vSphere 4 administration experience.

VMware vSphere 5: Install, Configure, Manage (VICM)

This hands-on training course explores installation, configuration, and management of VMware vSphere, which consists of VMware ESXi and VMware vCenter Server. The course is based on ESXi 5.0 and vCenter Server 5.0. Completion of this course satisfies the prerequisite for

Duration 5 days Price 28.500 SEK

taking the VMware Certified Professional 5 exam.

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



VMware vSphere 5: Design Workshop (VDW) COMING SOON

This course explores a design methodology, criteria, and approach for designing a VMware vSphere 4 virtual datacenter architecture consisting of VMware ESX/ESXi 4 and VMware vCenter Server 4. This course, by discussing the benefits and risks of available design alternatives, provides information which supports making sound design

Duration 3 days Price 17.200 SEK

decisions. This course also provides an opportunity to practice your design skills by working with peers on a design project. The course is 55 % lecture and 45 % lab exercises. **Prerequisite:** The Student should have knowledge of vSphere 4.0 installation, upgrade, configuration, and system administration.

VMware vCloud: Architecting the VMware Cloud (VPCLOUD) COMING SOON

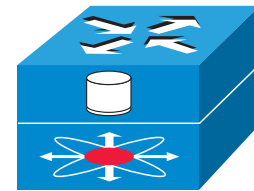
This course is designed to guide students through the decision points and policy choices available for designing and implementing a VMware vCloud environment. Students will learn to appreciate the effects of design choices in VMware vSphere, VMware vCloud Director, VMware vCenter Chargeback, and the VMware vShield Edge capability that is included with vCloud Director. The course culminates in a comprehensive workshop on VMware cloud design.

Duration 3 days Price 17.200 SEK

Prerequisite: The Student should have completed VMware vCloud director Fundamentals or VMware vCloud Director Essentials self-paced training. The Student should also have VCP-level knowledge of vSphere as well as general-purpose vSphere design experience, with special emphasis on networking and storage. Exposure to the product features and functionality of vCloud Director, vSphere, vShield Edge, and vCenter Chargeback is required.

SYMANTEC DATA PROTECTION

Symantec är ett av de starkaste leverantörerna av programvaror för back-up och hantering och lagring av information oberoende av teknik, plattform och utrustning. Kontakta oss för mer information.



Symantec Backup Exec 2010 – Administration (BE2010)

Duration 5 days Price 25.000 SEK

The course is designed for the data protection professional tasked with backing up and restoring critical data and vaulting the media on which backup data is stored. This hands-on class covers how to back up, restore, and vault data. Students also learn how to configure storage devices, manage media, and troubleshoot Backup Exec. In addition, students learn to work with add-on agents and options, which expand Backup Exec's core functionality. The new features and en-

hancements introduced in Backup Exec 2010 are also discussed in this course. **Prerequisite:** The Student should have working knowledge of administration and configuration of the Windows 2000 Server, Windows Server 2003, and Windows Server 2008 platforms as well as experience configuring server software and hardware. Knowledge of domain security and experience with Active Directory and Windows Server 2008 are recommended.

Symantec Enterprise Vault 10.x for Exchange: Administration (EVEA)

Duration 5 days Price 30.000 SEK

The course is designed for system administrators tasked with operating, integrating, and monitoring the day-to-day performance of Enterprise Vault within their Exchange environments. This hands-on class covers how to configure and use Enterprise Vault. Students learn about the product's functionality and Enterprise Vault's operations and features. Additional topics include using reports, basic management, backing up and restoring the components of Enterprise Vault,

and an introduction to troubleshooting. After you complete this course, you will know how to configure, manage, monitor, and maintain Enterprise Vault. **Prerequisite:** The Student should have working knowledge of Windows with some system administration experience. Basic familiarity with Exchange/Outlook is sufficient, while an understanding of SQL Server, Exchange, and Active Directory as a power user or administrator is useful.

Symantec NetBackup 7.0 for UNIX: Administration (NBU57)

Duration 5 days Price 30.000 SEK

This course focuses on the functionality of Symantec NetBackup 7.0 software. It covers the general principles of using NetBackup to develop and implement a storage management strategy, including how to: Install, configure, and operate NetBackup 7.0. Manage NetBackup using the graphical interfaces, commands, and scripts. Provide service protection and recovery. Use the activity monitor and logs to monitor NetBackup processes. **Prerequisite:** The Student should be familiar with the administration and configuration of the UNIX platform.



Symantec NetBackup 7.0 for Windows: Administration (NBUW7)

Duration 5 days Price 30.000 SEK

This course focuses on the functionality of Symantec NetBackup 7.0 software. It covers the general principles of using NetBackup to develop and implement a storage management strategy, including how to: Install, configure, and operate NetBackup 7.0. Manage NetBackup

using the graphical interfaces, commands, and scripts. Provide service protection and recovery. Use the activity monitor and logs to monitor NetBackup processes. **Prerequisite:** The Student should be familiar with the administration and configuration of the Windows platform.

Symantec NetBackup 7.0 Maintain and Troubleshoot for Windows (NBMTW)

Duration 3 days Price 18.900 SEK

This course focuses on troubleshooting Symantec NetBackup 7.0 software. It covers general error detection tools and approaches problem-solving using the scientific method. Students study the functions of key NetBackup processes and how to enable, view, and manage the associated logs. In addition, students practice solving problems related to the NetBackup database, devices, media, disk,

deduplication, networking, and performance. **Prerequisite:** The Student should have one year of NetBackup Windows administration, two years experience as a Windows system administrator, including networking and familiarity with backup and restore concepts and SAN concepts.

SYMANTEC DATA PROTECTION **FORTS**

Symantec NetBackup 7.0 Maintain and Troubleshoot for UNIX (NBMTU) Duration 3 days Price 18.900 SEK

This course focuses on troubleshooting Symantec NetBackup 7.0 software. It covers general error detection tools and approaches problem-solving using the scientific method. Students study the functions of key NetBackup processes and how to enable, view, and manage the associated logs. In addition, students practice solving

problems related to the NetBackup database, devices, media, disk, deduplication, networking, and performance. **Prerequisite:** The Student should have one year of NetBackup UNIX administration, two years experience as a UNIX system administrator, including networking and familiarity with backup and restore concepts and SAN concepts.

SYMANTEC SECURITY

Symantec Endpoint Protection 12.1: Administration (SEP) Duration 5 days Price 30.000 SEK

The course is designed for the network, IT security, and systems administration professional tasked with architecting, implementing, and monitoring virus and spyware protection, zero-day protection, and network threat protection solutions. This class covers how to design, deploy, install, configure, manage, and monitor Symantec Endpoint Protection 12.1 (SEP 12.1). Students learn how to create and implement the client firewall, intrusion prevention, application and device control, and behavioral protection policies that guard the

enterprise from viruses and hackers. In addition, students learn how to perform server and database management, expand the management environment, use virtualization features for virtual clients, and interface the Symantec Endpoint Protection Manager with Protection Center. **Prerequisite:** The Student should have working knowledge of advanced computer terminology, including TCP/IP networking terms and Internet terms, and an administrator-level knowledge of Microsoft Windows 2000/XP/2003 operating systems.

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

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

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CHECK POINT

Check Point är en av världen mest kända tillverkare av brandväggar. Nu erbjuder vi Check Point utbildning i Norden. Tillsammans med våra samarbetspartners har vi instruktörer med lång och bred erfarenhet av att implementera Check Point i komplexa miljöer.



Check Point Security Administrator R71 (CPSA71)

This course provides hands-on training to attain the skills necessary to configure R71 Check Point Software Blades including Firewall, IPSEC VPN, IPS, Network Policy Management, Logging & Status, and Monitoring, URL Filtering, Antivirus/Anti-malware, Anti-spam & Email Security. During this course, students will configure a Security

Duration 4 days Price 25.450 SEK

Policy, secure communications across the Internet and defend against network threats. **Prerequisite:** The Student should have a working knowledge of networking concepts, Windows Server and/or UNIX, and experience with TCP/IP and the Internet.

CCSA R70 Upgrade (CCSAX)

This accelerated course provides an understanding of the concepts and skills necessary to configure Check Point Security Gateway and Management Software Blades. This course only covers topics in the current CCSA R70 course that are not covered in previous CCSA versions. During the course, you will configure, manage, monitor and

Duration 3 days Price 21.500 SEK

maintain a corporate and branch office network. In addition, you will upgrade and configure a Security Gateway to implement a virtual private network (VPN) for both internal and external users while implementing IPS and Messaging and Content Security. **Prerequisite:** The Student should have a prior CCSA certification.

Check Point Security Expert R71 (CPSE71)

This is a hands-on course, delivering the advanced concepts and skills to optimize the R71 Check Point Software Blade architecture. This course is designed to help maximize the performance of your Check Point security deployment with real-world scenarios including advanced routing, load balancing and high availability. During

Duration 5 days Price 29.950 SEK

the course you will set up multiple security gateway clusters, analyze network intrusion alerts and generate advanced network traffic reports. **Prerequisite:** The Student should have CPSA and a working knowledge of networking concepts, Windows Server and/or UNIX, and experience with TCP/IP and the Internet.

CCSE R70 Upgrade (CCSEX)

This accelerated course provides an understanding of the advanced concepts and skills necessary to configure and optimize Check Point Security Gateway and Management Software Blades. This accelerated course is Guided Lab format and there are no lectures. This course

Duration 2 days Price 16.500 SEK

covers topics in the current CCSE R70 course that are not covered in the CCSA R65 course. Additional new content from the CCSA R70 class is also covered. **Prerequisite:** The Student should have CCSE R65 certification.

Check Point CCSA and CCSE R70 Power Workshop (CPPW)

This Power Workshop teaches students consolidated knowledge of the Check Point Firewall NGX. In theoretical sections and various practical labs students learn how to install the Firewall (SecurePlatform), how to establish and install rules, and how to readout and manage logfiles. Further course content contains the alternatives to setup NAT, Check Point update, the setup of the cluster (ClusterXL) on the Check Point and troubleshooting.

Duration 5 days Price 22.900 SEK



Prerequisite: The students should have working knowledge of administering Networks and troubleshooting TCP/IP.

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

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ITIL / IT SERVICE MANAGEMENT

ITIL v3 Foundation for IT Service Management (ITIL3)

Duration 3 days Price 16.500 SEK

This course introduces the concepts of IT Service Management (ITSM) based on Version 3 of the IT Infrastructure Library (ITIL). It describes the IT Service Management Lifecycle. It also provides a set of specialized organizational capabilities for providing value to customers in the form of services. *It ends with the ITIL v3 Foundation exam, which is included in the price of the course.* Upon successful completion of this course participants will be able to: Gain a fundamental understanding of the ITSM lifecycle. Gain the knowledge necessary to prepare for the "Foundation Certificate in IT Service Management" examination

from EXIN, ISEB or APM Group. The Student will also be able to: Identify the lifecycle and fundamental processes involved in IT Service Management and how to integrate them into your business' IT service model. Understand how IT and the Business can collaborate to improve overall productivity and efficiency. Learn to move the reactive relationship between IT and users to a proactive relationship. Learn ITSM concepts via an exciting and interactive simulation. **Prerequisite:** Experience and knowledge of IT computing environments are useful but not essential.

ITIL Service Design (ITILSD)

Duration 3 days Price 16.500 SEK

This course offers training towards a free-standing Service Design qualification, but is also one of the Lifecycle modules leading to the ITIL Expert qualification. The course covers all aspects of Service Design and is based upon the ITIL V3 core book of the same name. Upon successful completion of this course participants will be able to: Identify the ITIL lifecycle and the fundamental processes involved

in Service Design and how to integrate them into your business' IT service model. Understand how IT and the Business can collaborate to improve overall productivity and efficiency. Learn to move the reactive relationship between IT and users to a proactive relationship. **Prerequisite:** The Student should have the ITIL V3 Foundation Certificate, or equivalent knowledge.

ITIL Service Strategy (ITILSS)

Duration 3 days Price 16.500 SEK

This course offers training towards a free-standing Service Strategy qualification, but is also one of the Lifecycle modules leading to the ITIL Expert qualification. The course covers all aspects of Service Strategy and is based upon the ITIL v3 core book of the same name. Upon successful completion of this course participants will be able to: Learn to understand the ITIL lifecycle and the fundamental processes

involved in Service Strategy and how to integrate them into your business' IT service model. Understand how IT and the Business can collaborate to improve overall productivity and efficiency. Learn to move the reactive relationship between IT and users to a proactive relationship. **Prerequisite:** The Student should have the ITIL V3 Foundation Certificate, or equivalent knowledge.

ITIL Service Transition (ITILST)

Duration 3 days Price 16.500 SEK

This course covers the Service Transition component of the ITIL V3 life cycle. Topics include change management, service asset and configuration management, service release and deployment, service validation and testing, performance evaluation, and decision making

with the Service Management Knowledge System (SMKS). The course includes a 90-minute multiple-choice exam. **Prerequisite:** The Student should have the ITIL V3 Foundation Certificate, or equivalent knowledge and have read the ITIL V3 Service Transition book.

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 logistikostnader.

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

Betalningsvillkor

Fakturering sker efter anmälan, dock tidigast 6 veckor före kursstart. Betalningsvillkor är tjugo (20) dagar. **Betalning för kurs skall vara erlagd före kursstart.**

Garanti

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

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

B

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, ICOMM8 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)

CCIP – Cisco Certified Internetwork Professional

ROUTE, BGP, MPLS & QoS och 4 tester.

82.900 kr (Du sparar ca 21.000 kr)

CCNP Wireless – Cisco Certified Network Professional Wireless

CUWSS, IUWMS, IAUWS & IUWVN och 4 tester.

82.900 kr (Du sparar ca 21.000 kr)

CCNP Voice – Cisco Certified Network Professional Voice

CVOICE 8, CIPT1 8, CIPT2 8, TVOICE 8 & CAPP8 8 och 5 tester.

102.900 kr (Du sparar ca 26.000 kr)

CCNP Security – Cisco Certified Network Professional Security

SECURE, FIREWALL IPS7 & VPN och 4 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 mängdrabattssystem. 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

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



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