

fast lane



Authorized Learning Partner



KURSUSKATALOG EFTERÅRET 2010

Ann-Christine Raadsen Brander har været AM i Fast Lane siden 2008. Med en lang erfaring indenfor data- og telekommunikationsuddannelse er hun lydhør og løsningsorienteret indenfor vores kunders ønsker og kan altid komme med en god løsning på deres kompetencebehov. Privat elsker Ann-Christine at rejse, gerne til Thailand. Med en baggrund som udspringer på elite niveau arbejder hun i sin fritid som leder for Stockholmspolisens IF, udspring/barn/ungdoms afdelingen.

Seriøst Netværk?
Vi har Nordens bedste kurser!

Fast Lane

Hej,

Så er der slut med forårsterminen, og sommerferien nærmer sig. Det betyder tid til os, til at udvikle nye muligheder for dig, til at øge kompetencerne i efteråret.

Vi publicerer mere end dobbelt så mange kurser som sidst, både fra Cisco og NetApp. Fra Cisco er det først og fremmest Unified Communications som har fået et nyt stort kursus sortiment, men også Data Center, vores nye favoritspor, hvor vi virkelig kan levere et komplet sortiment. Vi fordobler vores lab-muligheder på Nexus her til sommer, for at kunne imødegå den øgede efterspørgsel. Også UCS fordobler vi vores labs på, da vi ser dette område komme stærkt frem. Vi følger også med Cisco in i Borderless Networks. Det kan du læse mere om i Fast Lane News [PRINT] No 1.0.

Når vi taler om Data Center og virtualiserede servere, må vi også tale lidt om Storage, NetApp MultiStore og Multi-Tenancy, hvor vi kommer til at holde kurser i, hvordan man kan virtualisere fra Server laget, over netværket og ned til datalagringsen, hvilket er yderst interessant i et fremtidsperspektiv, hvor også lagringsmulighederne skal udnyttes endnu bedre. Jeg vil også pege på Routing og Switching som består af mange gode nye kurser der er højaktuelle, da kravene til båndbredde, hastigheder og protokoller fortsættes med at øges. Ael vores instruktører er dygtige til Routing og Switching, og en del er specialiserede på visse protokoller og kan hjælpe helt til vejs ende.

Branchen ekspanderer kraftigt i øjeblikket, med flere og hurtigere tjenester og applikationer indenfor alle områder, fra vores sædvanlige internetbrug med ekstrem stigning i videooverførsler, til videokonferencer via TelePresence eller Cisco Tandberg, til IP-telefoni, der øger mulighederne enormt.

Vi har valgt ikke at offentliggøre datoerne for de enkelte kurser i vores nye katalog, da datoerne for de lidt mere specielle kurser ofte følger behovs- og salgscykler. Vi ser gerne, at vores kunder følger med på vores hjemmeside, www.fastlanenordic.com, og søger kursusdatoerne der. Vi laver ikke masseudsendelser af kataloget denne gang heller, men sender den efter bestilling, og distribuere den på messer, udstillinger mv., men først og fremmest ønsker vi at have det som et levende dokument på webben. Vi vil tage vores miljøansvar, og hjælpe til hvor vi kan.



Jens Søltøft Andersen

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FAST LANE

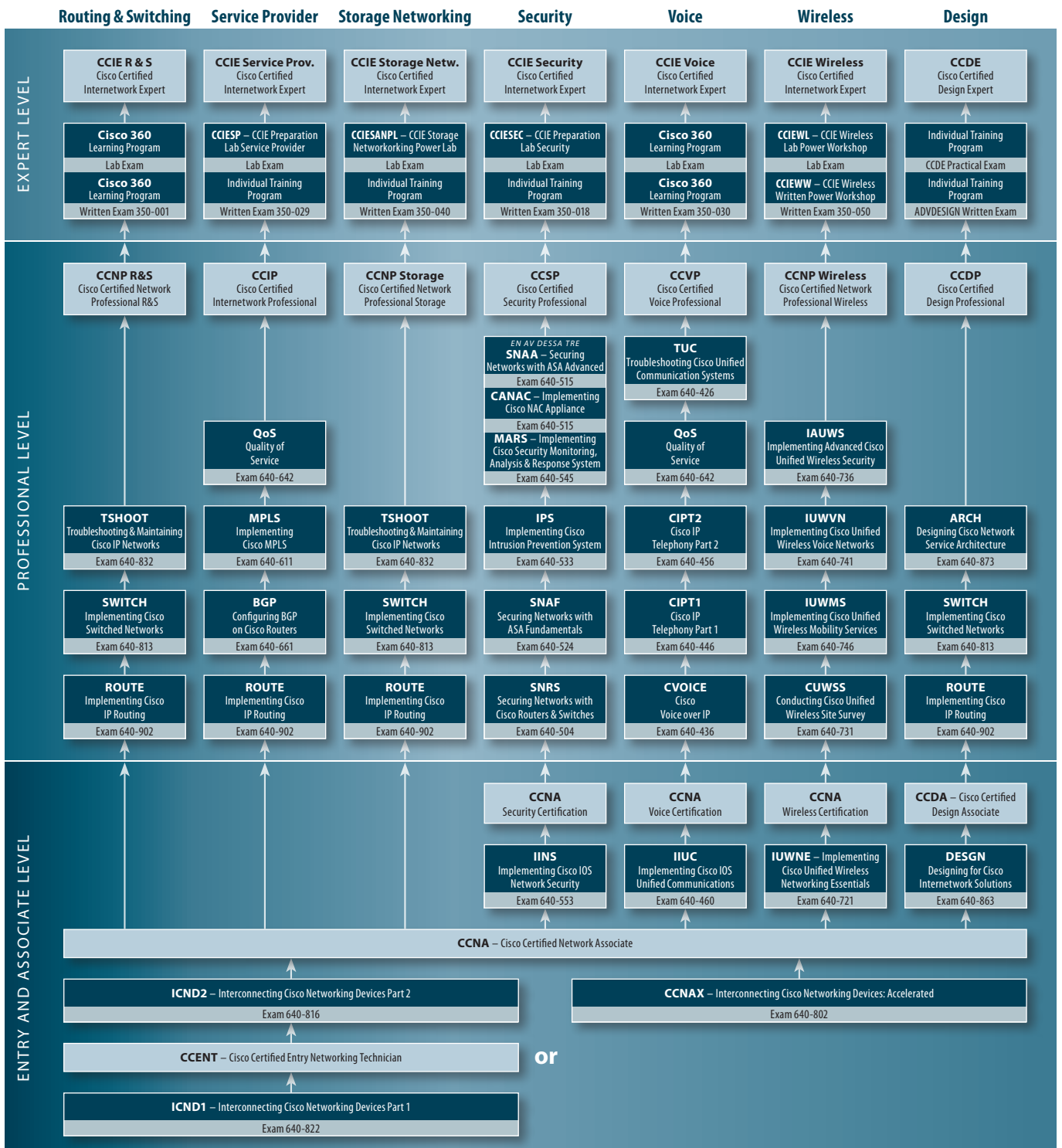
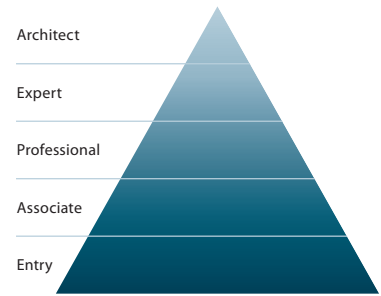
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Cisco certificeringer



Ciscos certificeringer er internationalt anerkendt som dokumentation for kundskab og færdigheder. De regnes som de mest eftertragtede kvalifikationer for netværksspecialister. Ciscos certificeringer findes i 5 niveauer. Basisniveauerne er Entry og Associate, mellemniveauerne er Professional og de højeste niveauer er Expert og Architect.

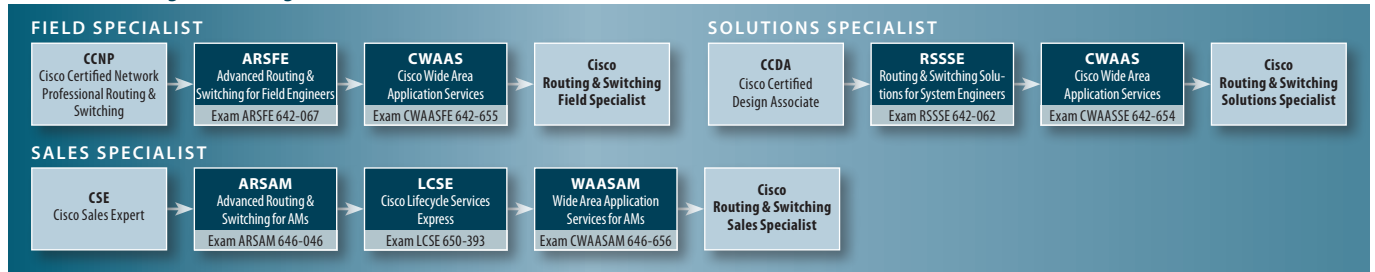
Ciscos certificeringer findes indenfor syv forskellige områder: Routing og Switching, Service Provider, Storage Networking, Security, Voice, Wireless og Design.



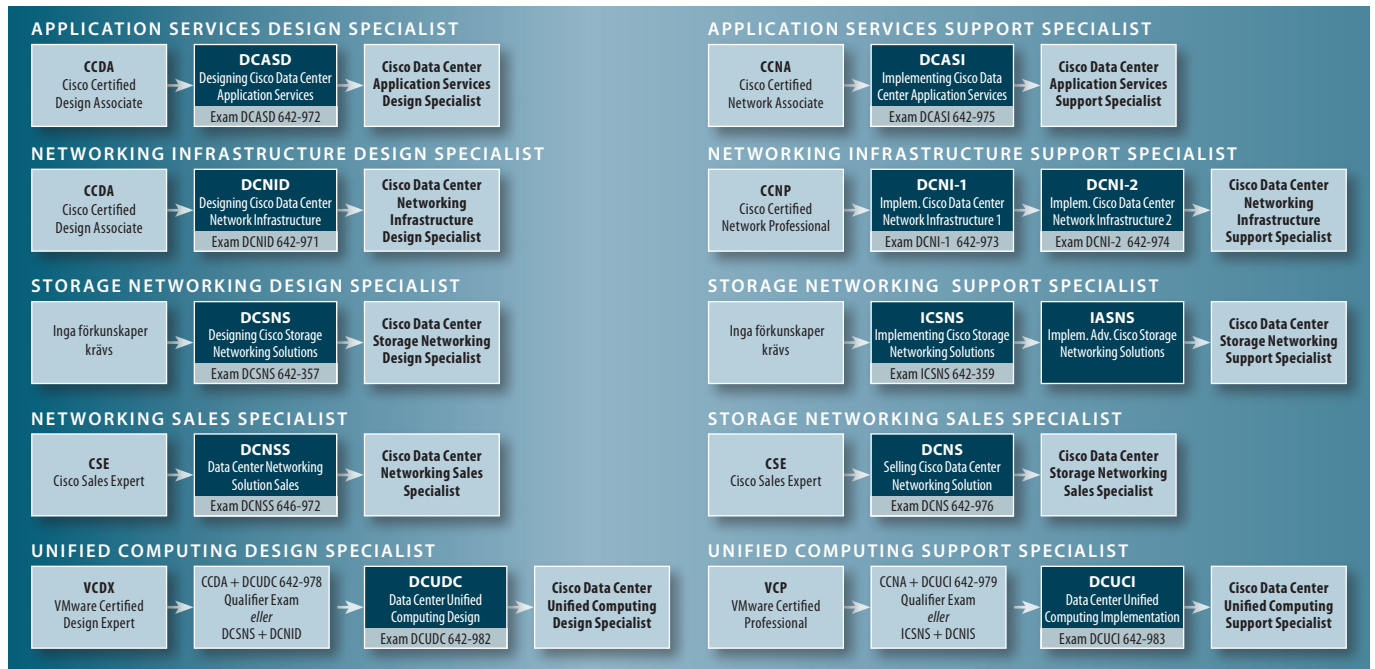
Cisco Specialistcertificeringer

Udover Ciscos generelle certificeringer, findes specialistcertificeringerne som viser kompetenceniveauet indenfor specifikke områder, såsom Advanced Routing & Switching, Data Center, Foundation for Channel Partners, MeetingPlace, Security, Unified Communications & Video, og Wireless.

Advanced Routing & Switching



Data Center



Foundation For Channel Partners



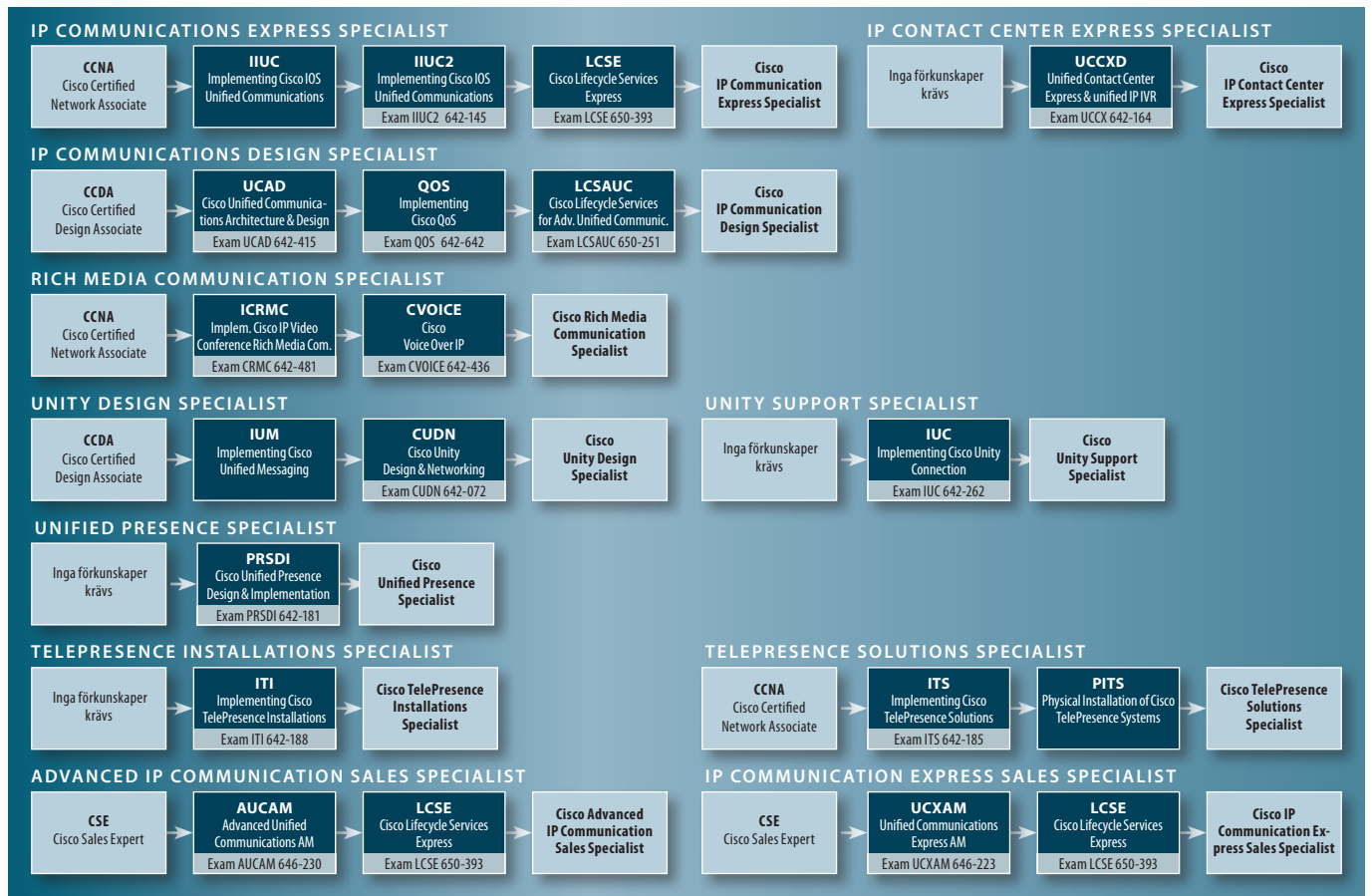
MeetingPlace



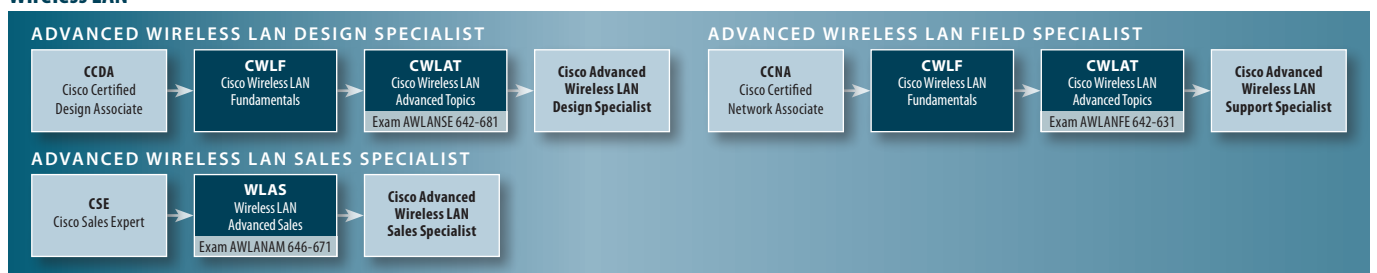
Security & VPN



Unified Communications & Video

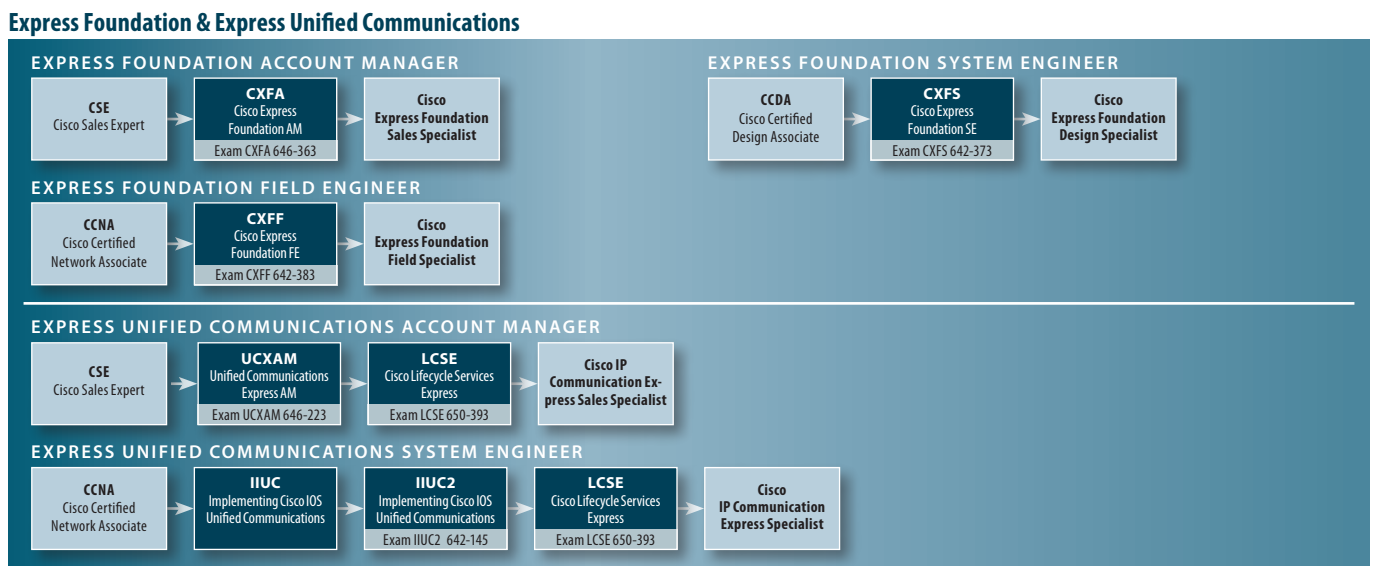
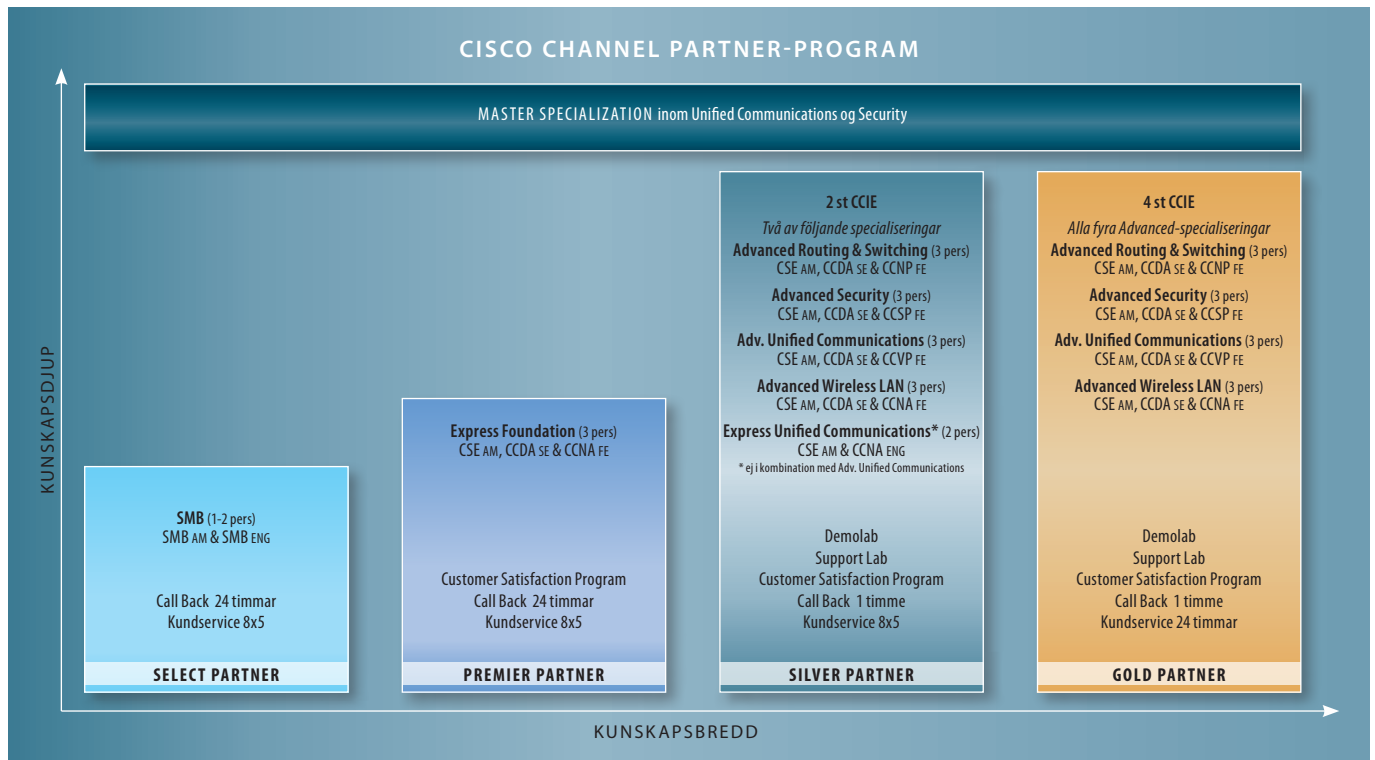


Wireless LAN

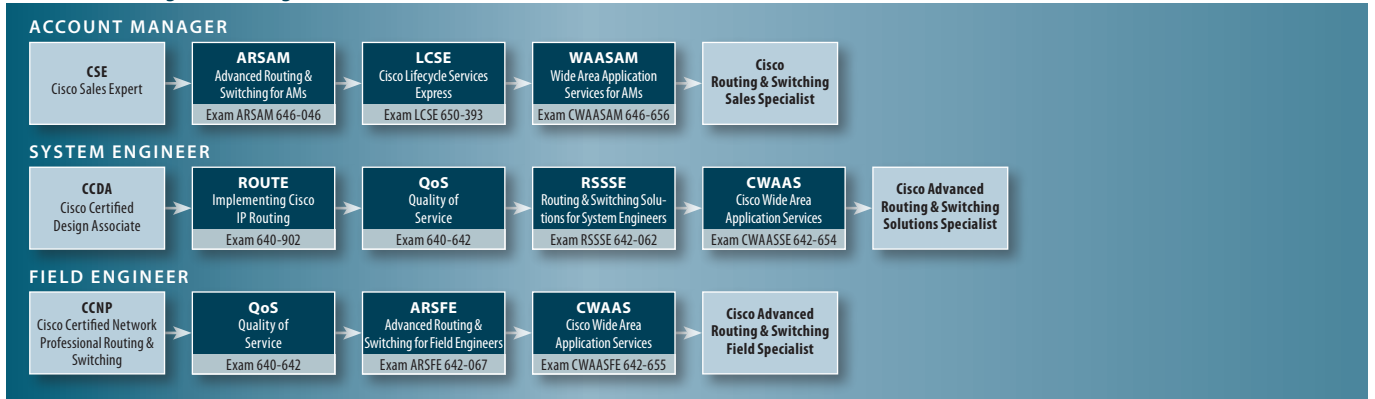


Cisco Channel Partner-program

Ciscos program og certificeringer giver deres Channel Partners unikke muligheder for at differentiere sig og skabe en tydelig kundeprofil. Der findes fire certificeringsniveauer som viser kundskabsbredden hos de respektive Channel Partners; Select Partner, Premier Partner, Silver Partner og Gold Partner. Channel Partner-programmet har desuden fire specialisniveauer, som viser kundskabsdybden; Entry, Express, Advanced og Master. Udover kundskabskravet for hvert certificeringsniveau, findes der yderligere krav til fx support, telefonservice, eget lab og udviklingsprocesser. Modellen nedenfor viser, hvordan de forskellige programmer adskiller sig.



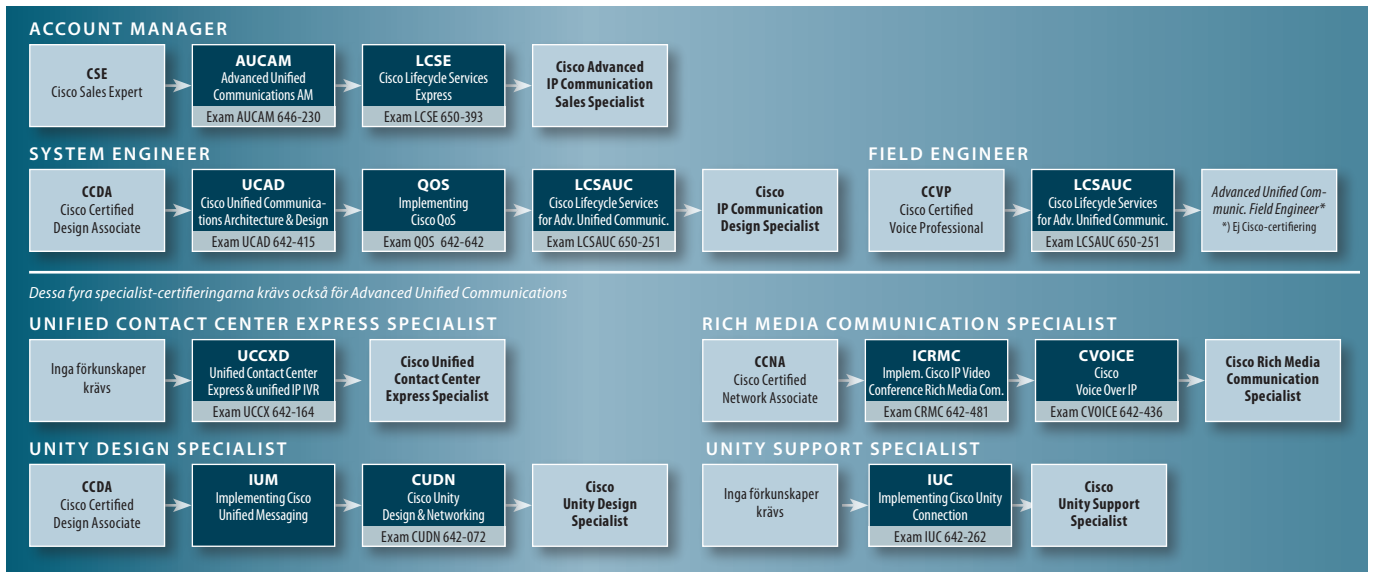
Advanced Routing & Switching



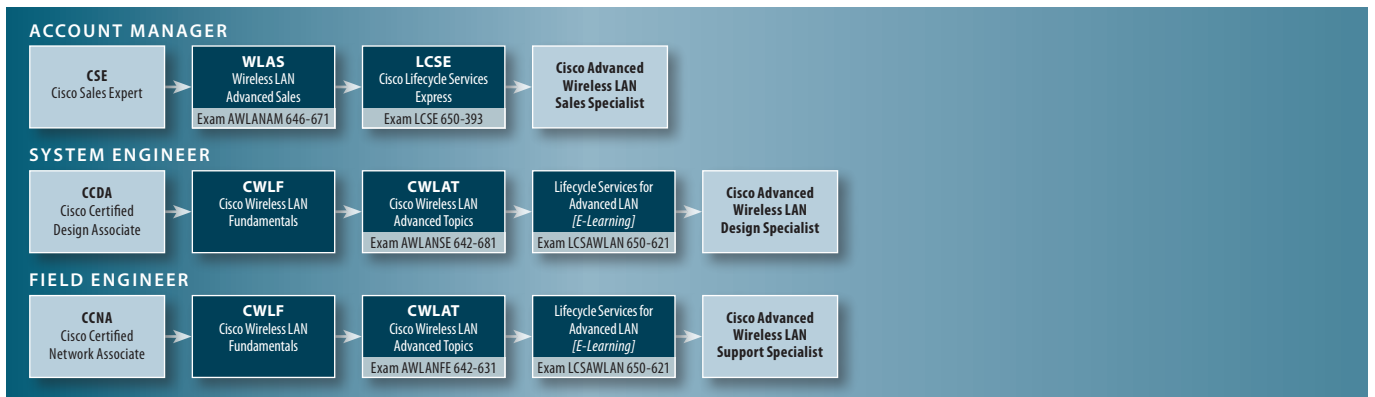
Advanced Security



Advanced Unified Communications



Advanced Wireless LAN



Cisco uddannelser

Fast Lanes Cisco-uddannelser er ligeså mangfoldige og mange-facetterede som Ciscos teknologi. Vi søger for, at have den uddannelse du behøver til din virksomhed og dens ansatte. Vi kan levere den som åbne kurser eller som specialtilpassede. I Danmark eller i udlandet.

KOMPLET UDBUD

Vi tilbyder et komplet udbud af Ciscos uddannelser, lige fra grundniveau til de seneste specialist-uddannelser. Med markedets bedste lærere kan vi forsikre dig om at vi er forbedrede på de udfordringer som Ciscos udvikling indebærer. Vi er også fuldt indforstået med de krav som Cisco certificeringer stiller til os som udbydere og på jer som elever.

SKRÆDDERSYDEDE KURSER

Som Cisco Learning Solutions Partner kan vi skræddersy Cisco-uddannelser til vores kunder. Vi kan sammensætte den uddannelse som bedst modsvarer din virksomheds behov, uanset om det handler om grunduddannelser eller specialist-uddannelser. Med hjælp af vores remote labs kan vi desuden levere kurset der hvor du ønsker det, hos jer eller hos os eller næsten hvor som helst. Alt vi behøver er en Internet-opkobling. Fortæl os om jeres ønsker, så kommer vi med et gennemarbejdet løsningsforslag.

DANMARKS BEDSTE INSTRUKTØRER

Vi har Danmarks bedste instruktører. De sørger for at holde os på tærne omkring kursusudbud og udvikling. De sørger også for, at vi kan levere Danmarks bedste uddannelser. Vi er også forpligtet til at hele tiden at udvikle os selv og vores lærere. Derfor er det vigtigt for os, at vores lærere befinder sig "i marken" og selv arbejder med teknik når de ikke er hos os og uddanner vores elever. Det er vigtigt ikke at miste fingerspidsfølelsen af, hvad der sker i virkeligheden.

OG VERDENS BEDSTE

Gennem vores søsterselskaber over hele verden, kan vi desuden love, at vi har adgang til verdens bedste lærere. De absolut bedste specialister indenfor hvert område findes i vores netværk og kan bookes når I behøver dem. Enten, her i Danmark, eller hvis I hellere vil det, i deres respektive hjemlande. Al international uddannelse sker naturligvis på engelsk hvis ikke andet aftales eller ønskes. Fast Lane er certificerede som Cisco Learning Solutions Partner i alle regioner verden over.

AVANCEREDE LAB

Vi ønsker at meget af vores uddannelse sker Hands-On. En kombination af teori og praktik er den bedste måde at lære sig ting på. Vi har adgang til alle de avancerede lab som behøves for at vi kan give jer den uddannelse I søger.

LEARNING CREDITS

Naturligvis er vi en del af, og håndtere Ciscos Learning Credits. Du kan betale for al Cisco-uddannelse med Cisco Learning Credits.

ONLINE LEARNING CENTER

Vi har også åbnet et Online Learning Center. På fastlane-community.com finder du både gratis evalueringsprøver, forum og kundskabsbank. Du kan selv teste dit kundskabsniveau for at se hvilket kursus du behøver for din fortsatte udvikling. Du kan også benytte forumet til at stille spørgsmål. Vores instruktører findes ofte i de forskellige tråde og ser til at du får korrekt information.

Routing & Switching



Unified Communications



TelePresence



MeetingPlace



DMS



Data Center & Virtualization



Security & VPN

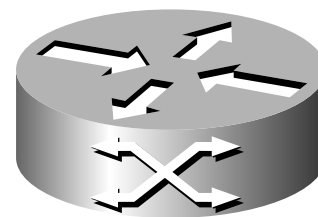


Wireless LAN



CISCO ROUTING & SWITCHING

Routing og Switching kurserne har været udgangspunktet for vores virksomheder i 15 år. I en tid med flere og mere avancerede tjenester på nettet, øges kravene til båndbredde eksponentielt, hvilket fører til øgede krav til kvalitet og skalerbarhed, såvel som enkelthed i håndteringen i vore netværk. De nye kurser indenfor CCNP, såvel som de øvrige kurser indenfor Routing og Switching giver dig den kompetence der behøves for ikke bare at følge med udviklingen, men også ligge på forkant.



Interconnecting Cisco Network Devices Part 1 (ICND1)

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

Duration 5 days Price 16.900 DKK

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)

This course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small to medium-size branch office Enterprise network, including configuring several switches and routers, connecting to a WAN and implementing network security.

Prerequisite: We strongly recommend that the Student start with ICND1.

Duration 5 days Price 16.900 DKK



Interconnecting Cisco Network Devices: Accelerated (CCNAX)

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

Duration 5 days Price 29.900 SEK

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

Implementing Cisco IP Routing (ROUTE)

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

Duration 5 days Price 20.900 DKK

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 20.900 DKK

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.

CISCO ROUTING & SWITCHING FORTS

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)

Duration 5 days Price 20.900 DKK

This is a five-day course designed to help network professionals hone the skills and knowledge needed to maintain their network and to diagnose and resolve network problems quickly and effectively. It also assists the network professional in preparing for Cisco CCNP certification. The TSHOOT course is a component of the CCNP curriculum. The course is designed to teach professionals that work in complex network environments the necessary skills to maintain their networks and to diagnose and resolve network problems quickly and effectively. The course will provide information about troubleshooting

and maintaining particular technologies, as well as procedural and organizational aspects of the troubleshooting and maintenance process. A large part of the training will consist of practicing these skills and reinforcing the concepts by putting them to use in a controlled environment. At the end of the course, the learners will have increased their skill level and developed a set of best practices based on their own and other learners' experiences that they can take back to their organizations. **Prerequisite:** The Student should have a CCNA or equivalent and the knowledge and skills from ROUTE and SWITCH.

CCNP Power Workshop (CCNPPW)

Duration 10 days Price 58.900 SEK

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



Cisco Professionals Troubleshooting (CPT)

Duration 5 days Price 24.900 SEK

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

on typical fault scenarios the participants learn how to systematically diagnose and remove upcoming network problems at the different OSI layers. **Prerequisite:** The Student should have the knowledge and skills equivalent to CCNP Routing & Switching.

Routing & Switching Solutions for System Engineers (RSSSE)

Duration 2 days Price 11.900 SEK

The Routing and Switching Solutions for Systems Engineers course teaches learners how to plan activities that provide a technical description of solutions presented to customers and point out specific advantages of selecting Cisco solutions as part of a System Engineer and Field Engineer team effort. It will prepare the learner to develop

a detailed network design for the customer's advanced routing and switching needs, including Border Gateway Protocol (BGP), Multiprotocol Label Switching (MPLS), Quality of Service (QoS), High Availability (HA), and IP version 6 (IPv6). **Prerequisite:** The Student should have a CCDA or equivalent.

Advanced Routing & Switching for Field Engineers (ARSFE)

Duration 3 days Price 19.900 SEK

The course offers Field Engineers (Primarily in Channel Partners) a 2007 update on routing and switching products; helps develop FE abilities on network implementation and operational tasks; content includes applications for configuring and managing high availability features, MPLS, and VPN.

The content consist of Advanced Capabilities of Cisco Routers and Switches, Network Management, Implement High Availability and MPLS Implementation. **Prerequisite:** The Student should have the knowledge and skills equivalent to CCNP.

CCIE Routing & Switching Theorie Workshop (CCIET)

Duration 5 days Price 24.900 SEK

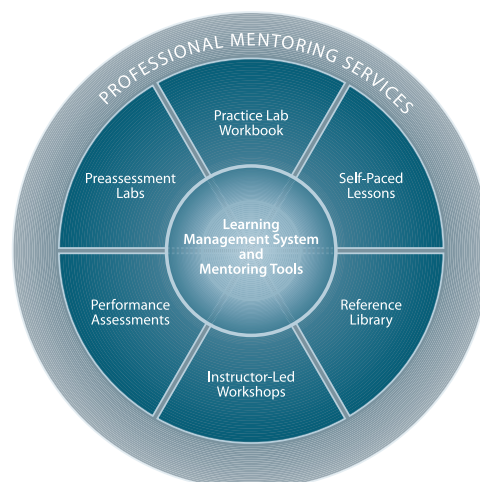
Recertification of the CCIE-Status is needed after two years. This 5-day Workshop will refresh and enhance your knowledge focusing on the key areas required in preparation for the CCIE Routing and Switching

Certification/Recertification. This course provides accelerated preparation for all relevant subjects in the shortest possible time. **Prerequisite:** The Student should have the knowledge and skills equivalent to CCIE.

Cisco CCIE 360° Learning Program

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

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



Cisco Internetwork Expert Routing & Switching 1 (CIERS1)

Duration 5 days Price 29.900 SEK

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

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

Cisco Internetwork Expert Routing & Switching 2 (CIERS2)

Duration 5 days Price 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

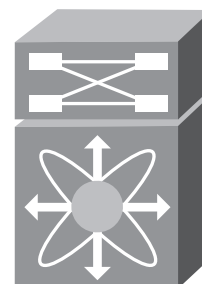
post-classroom activities, Students will be ready to perform a series of self-paced practice labs as well as additional graded assessments at a high pace. **Prerequisite:** Students should attend CIERS1 and perform at least four assesment labs and five to ten self-paced practise labs.

Lær dig mere!

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CISCO DATA CENTER

Ciscos Data Center-satsning har været utroligt fremgangsrig. Nexus konceptet er et fremtidssikkert og skalerbart koncept, som håndterer højere hastigheder, flere protokoller som FCoE, serverpark, virtualisering, datalagring og Multi-Tenancy. Med UCS bliver konceptet et af de stærkeste på markedet. Læs mere om NetApp på side 42.



Data Center Architectural Overview (DCAO)

This one-day class focuses on the Cisco Data Center Architecture and the products and services available. The courseware includes instructor-led presentations designed to build immediate awareness of the features and benefits available in the Cisco Data Center. The course provides an overview of Cisco Nexus 1000v, 2000, 4000, 5000,

Duration 1 day Price 4.900 DKK

7000 and UCS for Network Architects and key decision makers that need to identify and position Cisco solutions within the Data Center. **Prerequisite:** An understanding of Data Center LAN and SAN will be an advantage.

Cisco Nexus Overview Workshop (CNOW)

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

Duration 1 day Price 4.900 DKK



Implementing Data Center Networks using the Cisco Nexus 1000V Switch (IDCN1V) **Duration 2 days Price 11.900 DKK**

This highly focused, 2-day course provides a detailed understanding of the emerging features and protocols supported by the Nexus 1000V product family. The Cisco Nexus 1000V Series Switches are virtual machine access switches that are an intelligent software switch implementation for VMware vSphere environments running the Cisco NX-OS operating system. Operating inside the VMware ESX hypervisor, the

Cisco Nexus 1000V Series supports Cisco VN-Link server virtualization technology to provide: Policy-based virtual machine (VM) connectivity; Mobile VM security and network policy and Non-disruptive operational model for your server virtualization, and networking teams. **Prerequisite:** The Student should have intermediate knowledge of Routing, Switching, Data Center Architecture and Protocols, and Server Virtualization.

Implem. DCN using the Cisco Nexus 5000 Switch & 2000 Fabric Extender (IDCN5K) **Duration 3 days Price 16.900 DKK**

This highly focused, 3-day course provides a detailed understanding of Cisco's converged SAN/LAN network architecture using Fibre Channel over Ethernet (FCoE) and Data Center Bridging (DCB) protocols on the Cisco Nexus 5000 and Nexus 2000 platform. You will learn about the hardware and software architecture of the Nexus 5000 and 2000 switches, and how this architecture deploys congestion management and other QoS characteristics in the FCoE/DCE networks. This course covers FCoE and DCB/DCE protol design guidelines and configuration details for Cisco's virtualized DCB network enviroment. You will learn how to deploy a highly available and scalable virtualized converged

networking infrastructure using Nexus 5000 and Nexus 2000 series switches in switch mode or NPV/NPIV mode of operation using FC, Ethernet and virtual Port channeling, including RSTP and FSFP high availability implementation considerations. It discusses several design options for modern Data Center access layer architecture, integration of Server Virtualization (ESX), Blade Server and Rack Server into the DC network topology. In addition, QoS, Management, and Monitoring tools for these type of enviroments are discussed. **Prerequisite:** The Student should have intermediate knowledge of Routing, Switching, Data Center Architecture and Protocols, and Server Virtualization.

Implementing Data Center Networks Using the Cisco Nexus 7000 Switch (IDCN7K) **Duration 3 days Price 16.900 DKK**

This three-day class focuses on the implementation, configuration and management of the Nexus 7000 switch and NX-OS software platforms. The courseware includes an effective mix of instructor-led presentations coupled with detailed lab exercises that are designed to build immediate awareness of the features and benefits of this high-

availability product set. Upon completing this class, you will be able to install and troubleshoot the Cisco Nexus 7000 Data Center Switch and configure using the Nexus Operating System (NX-OS). **Prerequisite:** The Student should have intermediate knowledge of Routing, Switching, Data Center Architecture and Protocols, and Server Virtualization.

CISCO DATA CENTER FORTS

Fiber Channel over Ethernet Overview (FCOE)

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

Duration 2 days Price 14.900 SEK

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

Advanced Catalyst 6500 Switching (CAT6KS)

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-

Duration 5 days Price 26.900 SEK

concept module focused on the Catalyst 6500 features that differentiate the Catalyst 6500 as a solution for next-generation Data Center and Campus networks. **Prerequisite:** The Student should have the knowledge and skills equivalent to CCNP.



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

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

Security Manager (CSM). **Prerequisite:** The Student should have; Experience of configuring Cisco IOS Software, CCNA Certification or similar knowledge, Basic knowledge of Windows Operating systems, and Familiarity with Network and Security Concepts.

Implementing Cisco Data Center Network Infrastructure 1 (DCNI-1) **Duration 5 days Price 23.900 DKK**

The course will teach you to build scalable, reliable, and intelligent Data Center networks using Catalyst 6500 Series switches. You will deploy an efficient and expandable enterprise network using Catalyst 6500, 4900, and the Data Center Infrastructure Module of the Enterprise Composite Network Model (ECNM). Explore the capabilities and performance considerations of the Catalyst 6500 Series switch supervisor modules incl. Sup720-3B/BXL, Sup32-PISA, and Sup720-10G-3C/CXL.

In class you will identify and implement traffic flows including FWSM routed/transparent modes, supervisor based packet acceleration, and FWSM-PISA integration and describe the multiple contexts concept, and how multiple contexts are provisioned and managed on FWSM. **Prerequisite:** The Student should have a CCNA or CCIE Routing and Switching certification status or equivalent knowledge.

Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2) **Duration 5 days Price 23.900 DKK**

This is a five-day instructor-led course with lab exercises that are intended to prepare Students for the DCNI-2 certification exam. The course schedule consists of approximately 50 percent lecture and 50 percent lab exercises. The DCNI-2 Delivery Lab is accessed using a remote access procedure coupled with a GUI application that provides connectivity to all lab devices. The Student will learn to deploy, configure and troubleshoot data center networks using the Cisco Nexus

Platform Family including the Cisco Nexus 7000, 5000 and 2000. The Student will also learn to; Understand the enhancements associated with the Nexus Operating System (NX-OS), Understand Product Placement for the Cisco Nexus Platform Family, and Describe the benefits of Unified I/O and Unified Fabric Architectures. **Prerequisite:** The Student should have a CCNA or CCIE Routing and Switching certification status or equivalent knowledge.

Data Center Network Infrastructure Design (DCNID)

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

Duration 5 days Price 23.900 DKK



Designing Data Center Application Services (DCASD)

Duration 5 days **Price 23.900 DKK**

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 23.900 DKK**

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

and Cisco Wide Area Application Services. **Prerequisite:** The Student should have knowledge of Catalyst 6500 architecture and operations, Common web application protocols, Common file system protocols, and Traffic control and monitoring protocols.

Implementing Cisco Storage Networking Solutions (ICSNS)

Duration 5 days **Price 23.500 DKK**

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 MDSCCT 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 23.900 DKK**

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 23.900 DKK**

The course enables the Student to design enterprise Cisco MDS 9000 solutions that include core Fibre Channel SANs, iSCSI for mid-range applications, and SAN extension solutions. The course outlines are; MDS 9000 Platform Overview, Designing SAN Fabrics, Consolidating

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

Cisco MDS 9000 Technical Pre-Sales Training (CMDSPS)

Duration 2 days **Price 11.900 SEK**

This course gives a extensive overview of the present Cisco MDS technologies, Virtual SANs (VSANs), Switch Port Analyzer (SPAN) and iSCSI Solutions and installations. We focus in particular on the differences

between Cisco and their competitors in Architecture, Management and Implementation. **Prerequisite:** The Student should have basic understanding of data storage.

Cisco Mainframe Storage Solutions (CMSS)

Duration 2 days **Price 14.900 SEK**

This course is designed for storage networking professionals who need to implement FICON storage networks using the Cisco MDS 9000 switches. The course covers storage & channel terminology in a mainframe environment, along with detailed coverage of FICON protocols. Upon completion of the class, the Students will be able to

fully configure a MDS 9000 switch for FICON support, including basic configuration steps, CUP configuration, cascaded directors, and Fibre Channel-over-IP (FCIP) support. **Prerequisite:** The Student should have attended ICSNS.

CCIE Storage Networking Power Workshop (CCIESAN)

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.

Duration 10 days Price 67.900 SEK

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)

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.

Duration 5 days Price 49.900 SEK



Data Center Unified Computing Design (DCUCD)

The goal of the course is to enable engineers to design scalable, reliable, and intelligent Data Center Unified Computing solutions based on Cisco Unified Computing System (UCS), Cisco Nexus family switches, Catalyst 6500 in Virtual Switching System (VSS), MDS family SAN switches with NX-OS, Data Center Network Manager (DCNM) and

Duration 5 days Price 27.900 DKK

MDS Fabric Manager configuration and management applications, VMware server virtualization products, and Linux and Microsoft Windows. **Prerequisite:** The Student should have CCNA and VCP certifications, knowledge of MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level and attended DCSNS and DCNID.

Data Center Unified Computing Implementation (DCUCI)

The Cisco Data Center Unified Computing Implementation course is designed to teach Students knowledge of the fundamentals of the Cisco Unified Compute System and the ability to implement a virtualized Data Center environment. In addition the Student also learns on how to implement the Cisco Unified Computing System (UCS) in an enterprise data

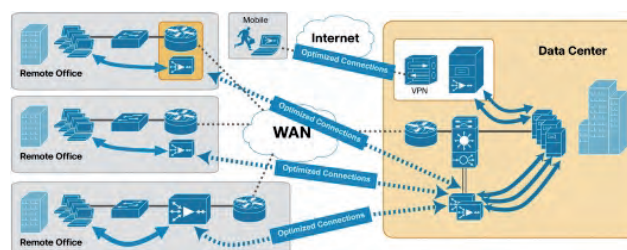
Duration 5 days Price 27.900 DKK

center routing and switching infrastructure with the next-generation Cisco Nexus product family. **Prerequisite:** The Student should have CCNA and VCP certifications, knowledge of MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level and attended DCSNS and DCNID.

Cisco Wide Area Application Services (CWAAS)

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 23.900 DKK



Implementing the ACE Service Module (ACESM)

Duration 4 days **Price 19.900 DKK**

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

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

Designing an Enterprise Application Infrastructure with the ACE Family (ACEDES) **Duration 4 days** **Price 23.900 SEK**

This is a four-day, instructor-led, lecture / lab course. You will learn how to deploy and configure intelligent network services using the Catalyst 6500 Application Control Engine (ACE), the next generation form factor of ACE, GSS and AVS. This course covers all of the key features of the ACE products, including resource virtualization and management, server load balancing (Layer 2-4 and Layer 7), SSL

termination and offload, and security features like application-layer inspection and fixups. The focus is on enabling the Student to properly position the ACE products in the network for optimizing data center components and network resources. **Prerequisite:** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, and Server load-balancing.

Cisco Application Control Engine Appliance (ACEAP) **Duration 4 days** **Price 24.900 SEK**

This is a four-day, instructor-led, lecture / lab course teaches you how to design, deploy, and optimize intelligent network services using the Cisco Application Control Engine (ACE) Appliance. This course covers all of the key features of the ACE 2.0 software, including resource virtualization and management, server load balancing (Layer 2-4

and Layer 7), SSL termination and offload, and security features like application-layer inspection and fixups. **Prerequisite:** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, N-tier application architecture, and Server load-balancing.

ACE XML Gateway Operations and Configuration (AXGOC) **Duration 2 days** **Price 12.900 SEK**

In this course you will learn how to deploy and configure the Application Control Engine (ACE) XML Gateway appliance. It covers all of the key features of the ACE XML Gateway, including Application Security,

Message Level Security and protocol transformation. **Prerequisite:** The Student should have knowledge of TCP/IP protocol, HTTP and SSL protocols, and N-tier application architecture.

Global Site Selector Operation & Configuration (GSSOC) **Duration 3 days** **Price 16.900 DKK**

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



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

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VMWARE VSPHERE & CISCO NEXUS 1000V INTEGRATION

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

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

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

Duration 4 days Price 19.900 DKK



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

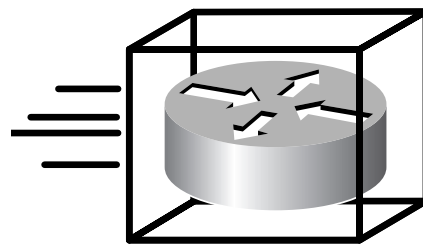
This highly focused, five-day course provides a detailed understanding of the emerging features and protocols supported by the Nexus 1000V product family and installation configuration, and management of VMware® vSphere™. The Cisco Nexus™ 1000V Series Switches are virtual machine access switches that 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 3.X VMware training should take the "What's New" class.

Duration 2 days Price 24.900 DKK

CISCO NETWORK DESIGN

I dages komplekse netværk som skal håndtere mange forskellige protokoller, tjenester og tekniske løsninger, kræves der kundskaber og viden om de muligheder i systemerne der kan udnyttes. Ciscos nye designkurser dækker alle de områder man behøver at have kundskab om, for at designe skalerbare og fremtidssikre fra de enkleste LAN til Borderless Networks.



Designing for Cisco Internetwork Solutions (DESGN)

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

Duration 5 days Price 16.900 DKK



Designing Cisco Network Service Architectures (ARCH)

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

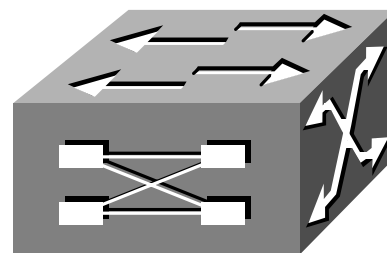
security, network management, QoS, high availability, and bandwidth use optimization through IP multicasting, and also design models for network solutions such as voice networking and application networking. The course focuses on design concepts based on the new Cisco SONA Architecture, emphasizing that 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.

Duration 5 days Price 16.900 DKK

Lær dig mere!

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Kravene til vores operatørs leveringsmulighed øges konstant. Flere tjenester i nettet, øget båndbredde, højere hastighed og bedre sikkerhed. Med vores kursussortiment, kompetente instruktører og et tæt samarbejde med Cisco, kan vi hjælpe med at øge kompetencen indenfor nye teknikområder – selv i operatørledet.



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 20.900 DKK

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 20.900 DKK

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

Configuring Routers for IS-IS (ISIS)

The course moves from an overview of IS-IS technology, its structures and protocols as well as configuration examples to in-depth information on Integrated IS-IS. The content consists of; Overview of IS-IS Technologies, Structures and Protocols, In-Depth Details of Integrated

Duration 3 days Price 17.900 SEK

IS-IS, IS-IS Deployment in Different WAN Environments, Integrated IS-IS Routing Designs, and IS-IS Lab Exercises. **Prerequisite:** The Student should have experience in designing and deploying IS-IS based OSI solutions and Integrated IS-IS based solutions.

Implementing Cisco MPLS (MPLS)

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 20.900 DKK

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

Duration 5 days Price 20.900 DKK

focus of the course is on technology issues of MPLS from the Service Providers perspective and how to configure some of those features and functions in an existing routed environment. **Prerequisite:** The Student should have attended BGP, QoS and MPLS.

MPLS Expert Workshop (MEWS)

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



Duration 5 days Price 24.900 DKK

Prerequisite: The Student should have attended MPLS and MPLST.

Implementing Cisco Multicast (MCAST)

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

Duration 5 days Price 23.500 DKK

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

IPv6 Fundamentals, Design & Deployment (IP6FD)

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

Duration 5 days Price 20.900 DKK

each lesson. This course will help network engineers understand, configure, and support Cisco devices running IOS software and covers the IPv6 routing protocols such as RIPng, OSPF, BGP, and IS-IS; IPv6 transition mechanisms including tunnels, ISATAP, NAT-PT, and 6to4; and other features. The design and deployment components present in depth coverage of IPv6 design and deployment for DNS, DHCP, integrating IPv6 in an IPv4 network, Multicast, and much more. **Prerequisite:** The Student should have knowledge of routing, switching and access product and skills as well as knowledge of routing protocols.

Designing Service Provider Cisco QoS (SPQOS)

This four-day leader-led class enables learners to use the technology principles of basic Quality of Service, and Quality of Service with Multi Protocol Label Switching (MPLS), to implement advanced features and functions. The focus of the course is on best practices for implementing QoS from the Service Providers perspective, and strategies

Duration 4 days Price 22.900 SEK

for deploying some of those features and functions in an existing SP environment. **Prerequisite:** The Student should have a CCNA certification and have attended BSCI or ROUTE. It is also strongly recommended that the learner be familiar with MPLS and QoS concepts.

Cisco 12000 Series Technical Product Training (GSR)

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.

Duration 3 days Price 22.900 SEK



CCIE Preparation Lab Service Provider (CCIESP)

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

Duration 10 days Price 59.900 SEK

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

CISCO NETWORK MANAGEMENT

Implementing CiscoWorks LMS (CWLMS)

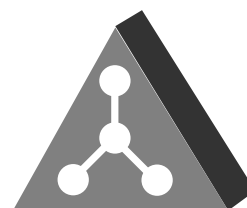
The course outline is as follows: Describing Network Management Fundamentals, Introducing CiscoWorks, Jump-Starting CiscoWorks, Implementing Asset Management, Managing Network Connections, Managing Device Configurations, Managing Network Performance,

Duration 5 days Price 23.500 DKK

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

CISCO IRONPORT SECURITY

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



Securing Your Email with IronPort C-Series (SYEPW)

This three-day training course provides a thorough foundation for how to successfully install, configure, and administer Cisco IronPort email security appliances. Attendees receive indepth instruction on the most commonly used product features. Extensive lab exercises provide attendees with critical hands-on experience working with advanced features of the IronPort email security appliance. Attendees gain working knowledge of how to use the IronPort appliance to successfully manage and troubleshoot email traffic entering and leaving

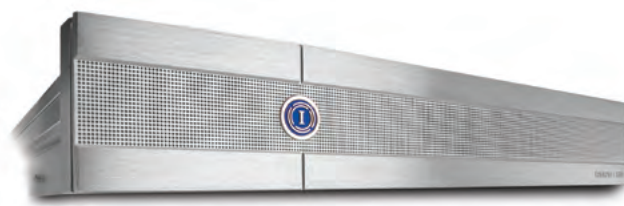
Duration 3 days Price 18.900 DKK

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)

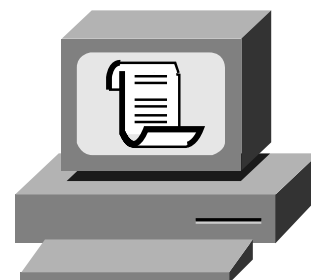
This comprehensive, two-day training course covers how to install, configure, operate and maintain the S-Series. The course consists of hands-on labs, demos and presentations to help students learn technical aspects of the S-Series Web Security Appliances. After successful completion of the course, the 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.

Duration 2 days Price 13.500 DKK



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

Med voksende tjenesteudbud, øges sikkerhedskravene på netværket. Erfarne instruktører med stor praktisk erfaring holder kurserne som omhandler Firewalls, Perimeter Security, VPN, SSLVPN, IPS, Mars, NAC osv. Vi uddanner indenfor hele Ciscos sikkerhedskoncept – gerne med udgangspunkt i jeres eget miljø.



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 20.900 DKK

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

Securing Networks with Cisco Routers & Switches (SNRS)

This five-day course is aimed at providing network specialists with the knowledge and skills needed to secure Cisco IOS Routers and Switches. Successful delegates will be able to secure the network environment using existing Cisco IOS and CatOS security features, configure the 3 Primary components of the Cisco IOS Firewall Feature set (Context-Based Access Control (CBAC), Intrusion Prevention, and

Duration 5 days Price 20.900 DKK

Authentication Proxy), implement Secure Tunnels (VPNs) using IPSec Technology and implement basic Access Switch Security. In addition, the Student will complete a security audit using functions embedded in Cisco Security Device Manager. **Prerequisite:** The Student should have CCNA certification, familiarity with networking and security terms and experience in configuring Cisco IOS software.

Securing Networks with ASA Fundamentals (SNAF)

This is a five-day, leader-led, lab-intensive course. The course takes a task-oriented approach to teaching the skills to configure, operate, and manage Cisco Adaptive Security Appliance product family. The course outlines are: Cisco Security Appliances, Getting Started, Controlling Network Access, Service Policy Rules, and Virtual Private Net-

Duration 5 days Price 20.900 DKK

works. **Prerequisite:** The Student should have CCNA certification, basic knowledge of Windows, familiarity with networking and security terms and experience in configuring Cisco IOS software.



Securing Networks with ASA Advanced (SNAA)

The course focuses on the following: configuring the ASA 5505 dual-ISP support, configuring ASA 5505 VLANs, configuring policy NAT, installing and configuring the Cisco Secure Desktop, configuring the security appliance to pass multicast traffic, configuring Layer 7 class maps and policy maps, and initializing the AIP-SSM and CSC-SSM. SNAA also utilizes the graphical user interface instead of the com-

Duration 5 days Price 20.900 DKK

mand line interface for explanation and discussions of configuring the ASA. The course takes a task-oriented approach to teaching the skills to deploy, configure, and administer the Cisco ASA using a fictional company's deployment of an ASA which is based on real world scenarios. **Prerequisite:** The Student should have attended SNAF.

Cisco ASA Specialist Power Workshop (CASPW)

This Power Workshop combines SNAF and SNAA. The five-day course is an intensive course made for Students who have previous knowl-

Duration 5 days Price 35.900 SEK

edge of the content. **Prerequisite:** The Student should have CCNA Security certification or equivalent.

Implementing Cisco Intrusion Prevention System (IPS)

This course is focused on protection of network systems from intrusions and security threats. The course outlines: Intrusion Prevention Overview, Getting Started with the IPS Command Line Interface, Using the IPS Device Manager, Basic Sensor Configuration, Cisco Intrusion Prevention System Signatures and Alarms Lesson, Signature Engines, Signature Configuration, Tuning the Sensor Using IDM, Alarm Monitoring and Management, Configuring Blocking, Cisco Intrusion

Duration 4 days Price 16.900 DKK

Detection System Module, Capturing Network Traffic, Maintaining Sensors, Verifying System Configuration, and Configuring Anomaly Detection, Passive OS fingerprinting, and CSA Collaboration. **Prerequisite:** The Student should have CCNA certification, basic knowledge of Windows, familiarity with networking and security terms and experience in configuring Cisco IOS software.

CISCO SECURITY FORTS

CCSP Power Workshop (CCSPPW)

The CCSP Power Workshop provides accelerated preparation for Cisco certification in the shortest possible time. Training is intensive, with instruction ranging up to eleven hours daily on demand. The

Duration 15 days Price 99.900 SEK

course consists of SNRS, SNAF, IPS, and MARS. **Prerequisite:** The Student should have CCNA Security or equivalent knowledge.

CCIE Preparation Lab Security (CCIESEC)

The CCIE Preparation Lab Security is an intensive, hands-on course which prepares the students for the challenging CCIE Security Lab

Duration 10 days Price 59.900 SEK

exam. **Prerequisite:** The Student should have completed the CCIE Security written exam.

Implementing Cisco NAC Appliance (CANAC)

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.

Duration 3 days Price 13.500 DKK



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

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

Cisco Systems offers the Mitigation and Response System (MARS) family of high performance, scalable appliances for threat management, monitoring and mitigation, enabling customers to make more effective use of network and security devices by combining network intelligence, context correlation, vector analysis, anomaly detection, hotspot identification and automated mitigation capabilities. CS

Duration 4 days Price 19.900 DKK

MARS solutions empower customers to readily and accurately identify, manage and eliminate network attacks and maintain network compliance. **Prerequisite:** The Student should have fundamental knowledge of implementing network security / CCSP or Security CQS and working knowledge of routing and switching / CCNA routing and switching / CCNA.

Implementing Cisco Network Admission Control (NAC)

The course focuses on the Network Admission Control The Student will learn how to: Implement Cisco NAC, Understand Cisco NAC, Configure Cisco Secure ACS for Cisco NAC, Configure Cisco Routers for Cisco NAC, Configure Cisco Switches for Cisco NAC, Configure

Duration 3 days Price 15.900 SEK

Cisco NAC Agents, and Configure Wireless Access Points for Cisco NAC. **Prerequisite:** The Student should have CCSP, basic knowledge of Windows and familiarity with networking and security terminology and concepts.

Mitigating DDoS Using Cisco Guard & Traffic Anomaly Detector (DDOS) **Duration 2 days Price 13.900 SEK**

This is an introductory end-user course focused on basic deployment and configuration of the Cisco Guard and Cisco Traffic Anomaly Detector distributed denial of service (DDoS) mitigation solutions. Upon completion of the course, learners will be able to recognize threats posed by DDoS attacks, select the appropriate mitigation strategies, and successfully deploy Cisco DDoS mitigation solutions. The course

includes hands-on lab practice in setting up and configuring Guard and Detector devices, creating zones and protection policies, and analyzing Guard attack reports for various DDoS attack scenarios..

Prerequisite: The Student should have attended ICND1, basic understanding of BGP and foundation level knowledge of Cisco security devices and principals.

Advanced IPsec (AIPSEC)

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

Duration 5 days Price 29.900 SEK

vanced features such as PKI-Integration, DMVPN and GET VPN. Cisco IOS Version of this course is 12.4T. **Prerequisite:** The Student should have CCNA or equivalent and attended IINS.

Designing Perimeter Security (DPS)

This course teaches the knowledge and skills needed to design secure network perimeters. The focus is on providing connectivity and access control enforcement solutions on network boundaries. The course identifies, compares and explains NAT technologies (both basic and advanced) and advanced NAT design. It also describes the function, features and limitations of firewalls, and details best practice firewall design guidelines and architectures based on a defined

Duration 3 days Price 14.900 SEK

security policy. Guidelines are provided on how to integrate an application with a particular firewall technology and how to design high availability and high performance firewall systems. Advanced ASA features are covered along with the advanced security features of Cisco IOS software when using it in a firewall system design. **Prerequisite:** The Student should have attended BSCI or ROUTE, BCMSN or SWITCH, and SNAF.

Security Solutions for System Engineers (SSSE)

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

Duration 5 days Price 24.900 SEK



Prerequisite: The Student should have CCDA certification or equivalent.

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

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-

Duration 3 days Price 21.200 SEK

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.

Implementing Security Manager for Cisco Networks (SMN)

Cisco Security Manager is a powerful but easy to use solution to centrally provision all aspects of security policies for Cisco firewalls and VPN's. Cisco Security Manager can also cross launch to software, which is provided to manage Intrusion Prevention Systems (IPS). Management of IPS will be further integrated into Cisco Security Manager in a following release. Cisco Security Manager is suitable for managing small networks consisting of a handful of devices, but also scales to efficiently manage large scale networks consisting

Duration 3 days Price 13.500 DKK

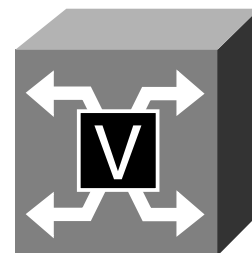
of thousands of devices. Scalability is achieved through intelligent policy-based management techniques that can simplify administration. **Prerequisite:** The Student should have knowledge of the following Security Technologies; NAT, PAT, firewall appliances, VPN, IPS, CSA, ACS, integrated router and switch security, and security management software. Furthermore the Student should be familiar with the following protocols: AAA, IPSec, IKE, and various tunneling protocols, HTTP, HTTPS, ICMP, SSH, SSL, NTP, FTP, TFTP, DNS.

Lær dig mere!

Du kan booke dine kurser direkte på www.fastlanenordic.com. Hvis du hellere vil tale med nogen, kan du ringe til os på 70 1453 70. Vil du spørge om noget, men hasr du telefonskræk eller kommet i tanke om spørgsmålet udenfor kontortid, eller synes du blot det er mere enkelt med e-mail, kan du maile os på info@fastlanenordic.com.

CISCO UNIFIED COMMUNICATIONS

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



Implementing Cisco IOS Unified Communications (IIUC)

This five-day course provides the student with Unified Communications concepts, component definition and high level designs. This is also the core technology course in the certification path to achieve the CCNA Voice designation. Students will be able implement and

Duration 5 days Price 20.900 DKK

configure small to medium sized IP Telephony solutions. UC products covered during labs include the Cisco Unified Communications Manager Express / Cisco Unity Express and the UC500 Smart Business Communications System. **Prerequisite:** The Student should have CCNA.

Implementing Cisco IOS Unified Communications Part 2 (IIUC2)

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 IIUC.

Duration 5 days Price 20.900 DKK



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 stud-

Duration 5 days Price 20.900 DKK

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

Cisco Voice over IP (CVOICE)

The course provides an understanding of converged voice and data networks and also the challenges faced by the various network technologies. The course also provides network administrators and network engineers with the knowledge and skills required to integrate gateways and gatekeepers into an enterprise VoIP network. This course is one of several courses in the Cisco CCVP track that addresses design, planning, and deployment practices and provides

Duration 5 days Price 20.900 DKK

comprehensive hands-on experience in configuration and deployment of VoIP networks. **Prerequisite:** The Student should have CCNA and successful completion Cisco Voice Fundamentals or prior experience and knowledge of traditional PSTN operations, requirements of Voice over IP, and a basic understanding of VoIP benefits. In addition, a working knowledge of LANs, WANs, and IP switching and routing is essential to fully comprehend the concepts and technologies.

CISCO UNIFIED COMMUNICATIONS F0RTS

Implementing Cisco Unified Communications IP Telephony (CIPT1) Duration 5 days Price 20.900 DKK

The course prepares you for installing and configuring, a Cisco Unified Communications Manager solution in a single site. This course focuses primarily on Cisco Unified Communications Manager Release 6.0, the call routing and signaling component for the Cisco Unified Communications solution. This course includes lab activities in which you will perform postinstallation tasks, configure Cisco Unified Communications Manager and switches, implement Media Gateway

Control Protocol (MGCP) gateways; and build dial plans to place on-net and off-net phone calls. You will also implement media resources, Lightweight Directory Access Protocol (LDAP) and voice mail integration as well as numerous user telephone features. **Prerequisite:** The Student should have knowledge of Computer networking, to include LANs, WANs, and IP switching and routing, Enable VLANs and DHCP, and working knowledge of the MGCP and its implementation.

Implementing Cisco Unified Communications IP Telephony 2 (CIPT2) Duration 5 days Price 20.900 DKK

The course prepares you for installing and configuring, a Cisco Unified Communications Manager solution in a multisite environment. This course focuses on Cisco Unified CallManager Release 6.0, the call routing and signaling component for the Cisco Unified Communications solution. It also includes H.323 and Media Gateway Control Protocol (MGCP) gateway implementation, the use of a Cisco Unified Border Element, and configuration of Survivable Remote Site Telephony (SRST), different mobility features, and voice security. This course includes lab activities in which you will apply a dialplan for a

multisite environment, configure survivability for remote sites during WAN failure and implement solutions to reduce bandwidth requirements in the IP WAN. You will also enable Call Admission Control (CAC) and automated alternate routing (AAR), a feature that allows rerouting of calls over the public switched telephone network (PSTN) in case of no available bandwidth. There are labs for implementing device mobility, extension mobility, Cisco Unified Mobility, and voice security. **Prerequisite:** The Student should have attended CIPT1 or have equivalent knowledge.

CIPT 1+2 Power Workshop (CIPTPW)

This eight-day Power Workshop is an efficient possibility to be prepared for the professional Cisco CallManager usage. Our specialists provide you with all essential knowledge of the courses "Implementing Cisco Unified CallManager" Part 1 and 2 (CIPT1, CIPT2).

Prerequisite: The Student should have CCNA Voice certification or equivalent knowledge.

Duration 8 days Price 49.900 SEK



Troubleshooting Cisco Unified Communications Systems (TUC) Duration 5 days Price 20.900 DKK

The course equips network professionals with the knowledge and skills required to troubleshoot Unified Communications Systems / solutions in Enterprise, Mid-Market, and Commercial deployments. TUC teaches troubleshooting methodology, triage, resources, tools and

fixes at the integrated System / Solution level, and for components (such as Cisco Unified Call Manager, Cisco Unity, videoconferencing, and infrastructure). **Prerequisite:** The Student should have CCNA certification, CIPT1 & 2, QoS and GWGK or equivalent knowledge.

CCVP Power Workshop (CCVPPW)

The fifteen-day CCVP Power Workshop provides accelerated preparation for the qualification to become an IP Communications specialist. Our specialists offer an intensive training up to 11 hours daily about all essential content concerning IP Telephony. The purpose of this

Duration 15 days Price 99.900 SEK

workshop is to prepare for the CCVP (Cisco Certified Voice Professional) certification. The CCVP Power Workshop includes the content of following courses: QOS, CVOICE, CIPT1, CIPT2, and TUC. **Prerequisite:** The Student should have CCNA certification or equivalent knowledge.

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

This course was developed to demonstrate a logical and efficient approach to solve problems in Cisco Unified Communications Networks with emphasis on call processing, functions and features. Using real life problems and experience the FL-CUCAT is based on CUCM 7.1 and focuses on signalling in VOIP environment and interaction with traditional TDM and analog technologies. The use of appropriate IOS debug /show commands and CUCM tools is a major part of this course. The course consists of more than 80% lab time to provide a realistic and complex environment. Students will face various prob-

lems caused either by failures or incorrect configurations. Especially connections between VOIP and non- VOIP (PSTN, PB) are challenging. The course is not suitable to gain knowledge of CUCM, Cisco IOS voice related subjects or generic VOIP understanding, and it is not a replacement of the TUC but rather an enhancement which addresses subjects not covered in the TUC course. **Prerequisite:** The Student should have prior knowledge of VOIP concepts and components, CUCM, Cisco IOS gateways and media resources, IP infrastructure, as well as an understanding of traditional telephony.

CISCO UNIFIED COMMUNICATIONS FORTS

Cisco Unified Communications Presales & Design (CUCPD)

Duration 5 days Price 17.900 SEK

This course provides the knowledge and experience necessary to sell and design Cisco Unified Communications solutions for small, medium and large companies. The course content argues about selling points for a Cisco Unified Communications solution and shows in an overview about the products and features for different Cisco Unified Communications scenarios. Starting with the Cisco Unified Communications Manager Express and Cisco Unity Express the Unified

Communications portfolio is introduced for small and remote offices. Cisco Unified Communications Manager and Cisco Unity will be presented for large enterprise customers. New features like Cisco Unified Mobility, Call Recording & Monitoring or the database functionality for redundant IP phone services are presented. **Prerequisite:** The Student should have good understanding of LAN/WAN, Voice over IP Fundamentals, and Cisco Unified Communications basics.

Cisco Unified Presence (PRSDI)

Duration 3 days Price 17.900 SEK

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

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

Cisco Unified Communications Architecture & Design (UCAD)

Duration 5 days Price 20.900 DKK

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

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

Implem. Cisco Unified Communications Manager 7.0 Features (UCM70) **Duration 3 days Price 17.900 SEK**

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

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



Administering Cisco Unified Communications Manager 7.0 (ACUCM) **Duration 3 days Price 15.750 DKK**

The course provides system administrators and networking professionals with an understanding of the Cisco Unified Communication Manager System from a Level One support perspective. ACUCM teaches the concepts of IP telephony using the Cisco Unified Communication Manager server, including its function, features, and configuration. This is an entry-level course that begins with the basic concepts of IP telephony and very quickly moves the learner forward

into an understanding of the Cisco Unified Communication Manager concepts: clustering, route plans, digit manipulation, call admission control, survivability, media resource, and Cisco Unified Communication Manager features, which are all important to supporting IP telephony in the enterprise network. **Prerequisite:** The Student should have basic knowledge of IP and networking.

Administering Cisco Unified Messaging (AUM)

Duration 2 days Price 11.900 SEK

The aim of the course is to produce competent administrators of the Cisco Unity product v5.0 and later. By the end of this course, learners will be able to perform system setup and customization; add, delete, and modify subscribers; and monitor and maintain the Cisco

Unity system. The class partially prepares a learner to take the Unified Communication for System Engineers exam. **Prerequisite:** The Student should have a sound understanding of Microsoft Windows Server and Microsoft Exchange.

CISCO UNIFIED COMMUNICATIONS FORTS

Implementing Cisco Unified Messaging (IUM)

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

Duration 5 days Price 21.900 DKK

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

Implementing Cisco Unity Connection (IUC)

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

Duration 4 days Price 20.900 DKK



Cisco Unity Design & Networking (CUDN)

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

Duration 4 days Price 23.900 SEK

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

Implementing Unified Communications Security (IUCS)

This five-day course prepares you for installing, configuring, and maintaining security on a Cisco Unified Communication solution. This course focuses primarily on enabling security on Cisco Unified

Duration 5 days Price 25.900 SEK

CallManager 5.0 and its components and applications. **Prerequisite:** The Student should have CCNA certification, attended CVOICE and Foundation of Call Agent on gateway (IPTX) or equivalent knowledge.

High-density Media Gateway Configuration & Operations (HMGCO)

This is a lecture-lab course focusing on the implementation of the MGX 8880 and MGX 8850-PXM45 Media Gateways (MGX-MG), based upon the Voice Switch Service Module (VXSM) in both switched VoIP

Duration 3 days Price 17.900 SEK

and VoAAL2 trunking applications. **Prerequisite:** The Student should have completed the WAN Quick Start guide, have knowledge of basic networking concepts, and PSTN technology.

Lær dig mere!

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CISCO UNIFIED CONTACT CENTER

Ciscos applikationer for Call Center er fantastisk veludviklede. Danmarks ledende Call Center anvender Cisco til at effektivisere deres kundebearbejdning. Vi har kurserne og instruktørerne der giver muligheden for at konfigurere et Call Center til at yde maksimal effektivitet.



Cisco Unified Contact Center Power Workshop (CUCCPW)

Duration 10 days Price 56.500 SEK

This Power Workshop is intended for personnel who will implement, configure and support the Cisco IPCC Product. After completing this Power Workshop, students will be able to: Accurately explain the IPCC solution concept, Identify solution models and their issues, Build a "clean order" for an IPCC solution, Design an IPCC solution using all applicable components, Install, configure, test and maintain IPCC

components for the Single-Site environment, Formulate and implement IPCC call flows and routing, Use Cisco's standard IPCC deployment tools, and Troubleshoot the IPCC solution set. **Prerequisite:** The Student should have basic knowledge of MS Windows-NT Server and familiarity with your call center operations (ACD, Network, and any IVR implementations).

Unified Contact Center Express & IP IVR Deployment (UCCXD)

Duration 5 days Price 24.100 DKK

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.

Workforce Management Express (WFMX)

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

Duration 3 days Price 15.900 SEK

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

Customer Voice Portal Implementation (CVPI)

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.

Duration 5 days Price 29.900 SEK

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



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CISCO BUSINESS VIDEO

TelePresence Installation & Configuration Training (TPICT)

Duration 5 days Price 28.900 SEK

The course, has been revised into a five-day, instructor-led course that teaches the Cisco TelePresence architecture, components, functionalities, and features. The newly revised course covers the recent addition of the CTS 500 and CTS 3200 TelePresence systems. New TelePresence features are also introduced and there is an increased amount of lab time. The course describes the latest techniques used to perform a Room Readiness Assessment, the latest advice on room

remediation, Network Path Assessment and the TelePresence deployment process from the ordering, staging the deployment, assembly, camera tuning, CTS certification and maintenance and support of CTS systems. In addition, the course covers the Cisco TelePresence Manager, the TelePresence Multi-Point Switch and introduces Inter-Company Communications models. **Prerequisite:** The Student should have CCNA and attended CIPT1 or equivalent knowledge.

Digital Media Suite (DMS)

Duration 3 days Price 17.900 SEK

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



Cisco Academy of Digital Signage (ADS)

Duration 2 days Price 19.900 SEK

This is a two-day innovative education initiative that teaches media professionals how to create and optimize media content for digital signage. Cisco ADS provides an instructor-led course to help develop the skills needed to produce digital signage for every market and

customer. **Prerequisite:** The Student should be skilled in rich media content creation and video production and have working knowledge in Adobe Photoshop, Adobe Illustrator, Adobe Flash, Adobe Premier, and Adobe Dreamweaver.

CISCO UNIFIED MEETING PLACE

Designing Cisco Unified MeetingPlace Solutions (DMPS)

Duration 3 days Price 17.900 SEK

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

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



Implementing Cisco Unified MeetingPlace (IMPS)

Duration 5 days Price 29.900 SEK

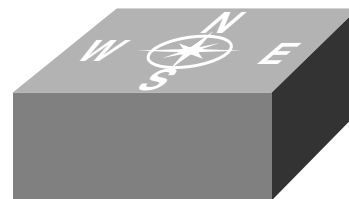
The course is a five-day instructor-led technical course providing in-depth coverage of how to install and configure the functional components of the Cisco MeetingPlace product in several deployment models in an enterprise customer network. Learners become familiar with the inter-communication of key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

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

Lær dig mere!

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Trådløs opkobling er blevet en hygiejnefaktor og et konkurrencemiddel for effektivitet såvel som trivsel. I takt med at det stationære computere byttes ud med bærbare, bliver vores måde at arbejde på anderledes og mobilitetskravene øges. Vi er eksperter i trådløse net, og alting begynder med en optimal Site Survey.



Implementing Cisco Unified Wireless Networking Essentials (IUWNE) Duration 5 days Price 20.900 DKK

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 20.900 DKK

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 20.900 DKK

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 20.900 DKK

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 20.900 DKK

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

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

Cisco Wireless LAN Fundamentals (CWLF)

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

Duration 4 days Price 18.500 DKK

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)

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

Duration 4 days Price 18.500 DKK

using the WLAN controllers and lightweight access points as well as the autonomous access points in conjunction with the Cisco Secure ACS, and Network Access Controller (NAC). Security also includes Cisco WCS and CiscoWorks WLSE Intrusion Detection Systems. Troubleshooting the WLAN is also included. **Prerequisite:** The Student should have attended CWLF.

Cisco Wireless LAN Power Workshop (CWLPW)

This is a highly focused, intense course which combines CWLF and CWLAT. There will be many hours per day in this Power Workshop. **Prerequisite:** The Student should have basic Computer Literacy,

Duration 5 days Price 29.900 SEK

Knowledge of fundamental networking components and terminology, Knowledge of the Open Systems Interconnection (OSI) reference model, and Knowledge of basic LAN components and functions.

Cisco Unified Wireless Networking (CUWN)

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.

Duration 4 days Price 19.900 DKK



Cisco CCIE Wireless Written Power Workshop (CCIEWW)

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.

Duration 5 days Price 24.900 SEK

Cisco CCIE Wireless Lab Power Workshop (CCIEWL)

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.

Duration 5 days Price 29.900 SEK

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CISCO WIRELESS / MOBILITY FORTS

Cisco Wireless Mesh Networks (CWMN)

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

Duration 3 days Price 15.900 DKK

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



Designing Cisco RF Networks (DRFN)

To effectively design a wireless mesh network, it is necessary to understand RF concepts, antenna systems capabilities, and link design measurements. Several options exist that could make the wireless mesh design a success or a failure. In this three-day course, you will

Duration 3 days Price 19.900 SEK

learn about the design, installation, and standards of a wireless mesh network both as an add-on to an existing WLAN and as a new installation. **Prerequisite:** The Student should have a basic understanding of RF engineering tools.

Cisco Wireless Mesh & RF Design Bundle (WMRFPW)

This five-day Course combines the two courses CWMN and DRFN. In one week of training, students will learn how to design, install, and maintain a wireless mesh network as well as select, connect, configure, and troubleshoot Cisco components of their wireless mesh network. In an in-class case study, they will gain experience designing

Duration 5 days Price 29.900 SEK

the RF network for a sample mesh-served community, engineering the client access layer, the mesh layer, and the backhaul layer. **Prerequisite:** The Student should have a basic understanding of PC hardware configurations and networking business drivers are both required.

CISCO CONTENT SWITCHING

Content Services Switch Operation & Configuration (CSSOC)

The course provides customers with essential knowledge required for deploying content switching networks and layer 4-7 switching applications. The four-day operation and configuration class provides customers with intensive hands-on training using Cisco 11500 Series Content Services Switch and Content Switching Module for Cisco Catalyst 6500 Series Switch. This course is intended for a technical audience involved in the installation, configuration and maintenance

Duration 4 days Price 27.900 SEK

of content switching products. Customized training is available to emphasize the specific requirements of the customer's network and business demands. The course is delivered in a balance of lectures, hands-on labs, and white board discussions. **Prerequisite:** The Student should have a basic understanding of TCP/IP, HTTP, IP Routing, DNS and network design/configuration.

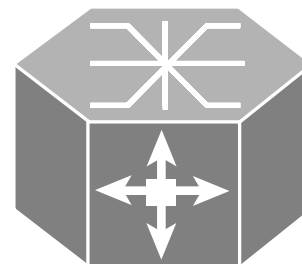
Application & Content Networking System Operation & Configuration (ACNS)

This four-day technical course provides an intensive lecture and hands-on training experience with Cisco's Application and Content Networking System 5.1 products. This course is intended for technical audiences involved in the installation, configuration and maintenance

Duration 3 days Price 17.900 SEK

of Cisco's ACNS products. The class format will alternate between lectures, whiteboard discussions, and hands-on lab exercises. **Prerequisite:** The Student should have a basic understanding of TCP/IP, HTTP, and IP routing.

Optical Training behandler transmission via fiber. Vores medarbejdere holder verdensklasse standard indenfor dette område, og er vant til at undervise på både kundeinstallationer og på Ciscos lab i Monza og Texas.



Optical Technology Fundamentals (OTF)

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

Duration 3 days Price 16.900 SEK

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

Cisco 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.

Cisco ONS 15454 Multiservice Transport Platform Basic (MSTP BASIC)

Duration 4 days Price 21.900 SEK

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

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

Cisco ONS 15454 MSTP Implementing Data over DWDM (ONS Data) (MSTP DATA) **Duration 4 days Price 21.900 SEK**

This lab-intensive course introduces you to the Cisco ONS 15454 Multiservice Transport Platform (MSTP) dense wavelength-division multiplexing (DWDM) Release 8 data features and functions. You will learn the important theoretical concepts that underlie data encapsulation and how they are put to use in the Cisco ONS 15454 MSTP system. You will gain practical knowledge and skills to successfully deploy data over DWDM in your network. You will be able to determine the right MSTP cards to use based on the requirements of your network. In hands-on labs, you will learn to configure Cisco Transport Controller, the 2.5-Gigabit transponders, the 2.5-Gigabit and 10-Gigabit data cards, the Gigabit Ethernet and 10 Gigabit Ethernet crossponders, and the 10 Gigabit Add-Drop Multiplexer (ADM-10G). There is also a

review of G.709 encapsulation, G.7041 Generic Framing Protocol (GFP), forward error correction, and Ethernet. This course combines lecture materials and hands-on labs throughout to make sure that you are able to successfully deploy a

Cisco ONS 15454 MSTP data over DWDM network. **Prerequisite:** The Student should have attended OCTPO.



Cisco ONS 15454 Multiservice Transport Platform Advanced (MSTP ADVANCED) **Duration 4 days Price 25.900 SEK**

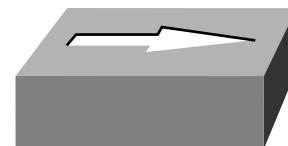
This course will teach the Student how to: Install internal connections and provisionable patchcords, Install optical channel client connections and optical trail circuits, Provision the 10 Gigabit muxponder and 10 Gigabit transponders and connect with circuits, Provision the ADM-10G subnetwork, Provision optical protection in the ADM-10G subnetwork, Install protected circuits in the ADM-10G subnetwork, Provision the mesh node, which consists of the WXC, 40-MUX, and

40-DMX cards, Provision the mesh network, and Install protected circuits in the mesh network. **Prerequisite:** The Student should have attended ICND and MSTP BASIC. Furthermore the Student should have knowledge of Routing fundamentals and IP addressing, Cisco Transport Controller operation, Installing and provisioning the Cisco ONS 15454 shelf, Dense wavelength-division multiplexing (DWDM) basics, and Experience using optical test equipment

Lær dig mere!

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I det seneste år, har vi uddannet over 50 sælgere på Ciscos generelle salgsuddannelse, CSE, med et meget godt resultat. Vi har også effektive salgsuddannelser indenfor Unified Communications og Data Center.



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 11.900 DKK

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.

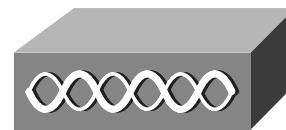
Prerequisite: None.

Lær dig mere!

Du kan booke dine kurser direkte på www.fastlanenordic.com. Hvis du hellere vil tale med nogen, kan du ringe til os på 70 1453 70. Vil du spørge om noget, men hasr du telefonskræk eller kommet i tanke om spørgsmålet udenfor kontortid, eller synes du blot det er mere enkelt med e-mail, kan du maile os på info@fastlanenordic.com.

CISCO ADVANCED SERVICES

Vi har formået at sælge og levere kurser fra Cisco Advanced Services Education både i eget regi og i samarbejde med Cisco. Disse kurser er komplekse og de tilhørende labs er store og dyre. Vores eksklusive samarbejde med Cisco Ase giver os mulighed for at levere alle kurser fra Cisco Systems Inc.



DATACENTER

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

METRO ETHERNET

- Deploying & Maintaining Carrier Ethernet Services (DMCE)

NETWORK MANAGEMENT

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

ROUTING & 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)

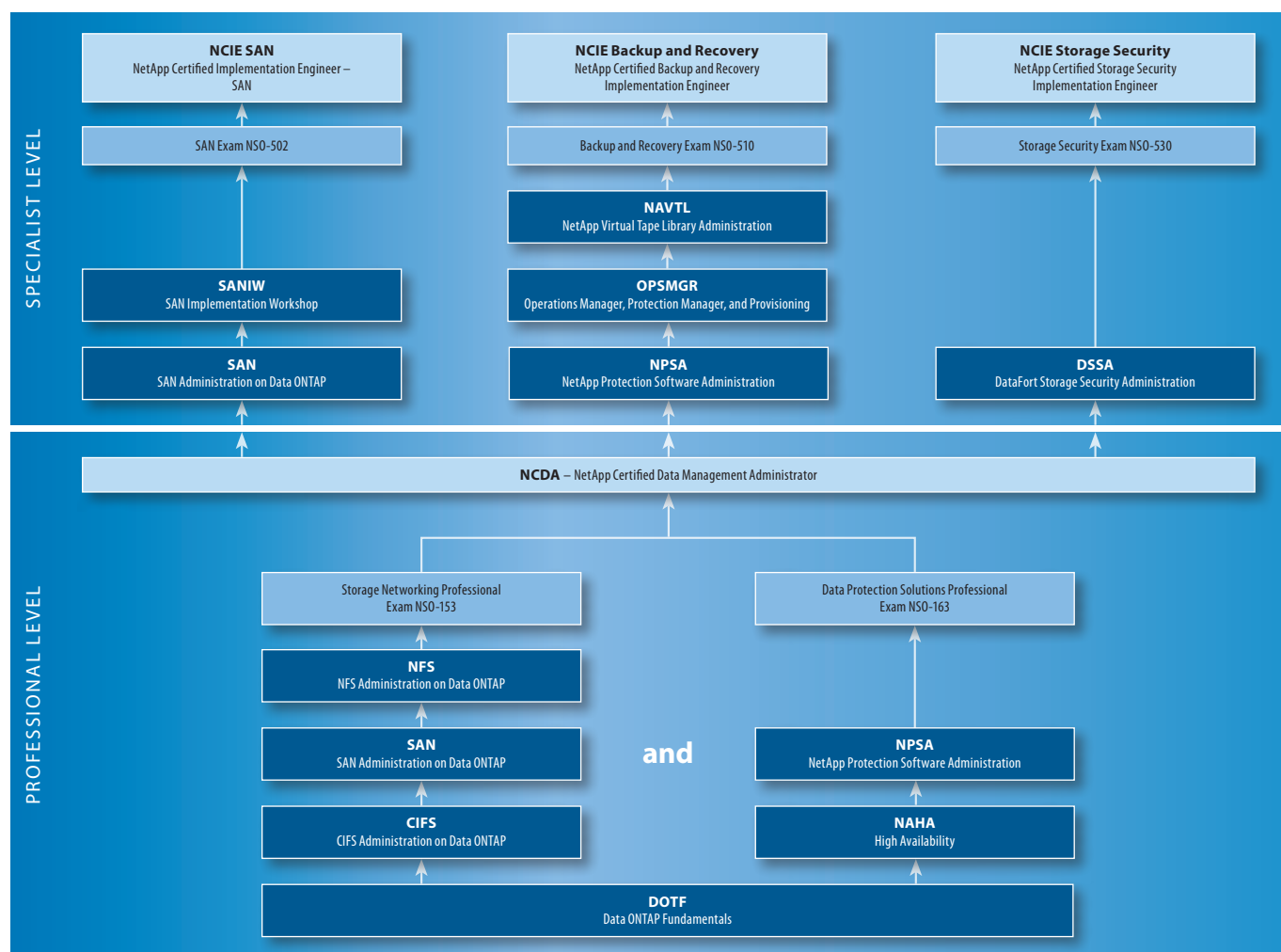
WIRELESS LAN

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



NetApps certificeringer giver dokumentation over de kundskaber og færdigheder som kræves for at implementere og vedligeholde NetApp-løsninger.

NetApps certificeringer er strukturerede sådan, at de kan tilføre både en bred base og dyp specialistikundskab. De er under konstant udvikling eftersom NetApps teknologier konstant udvikles. Flere NCIE certificeringer er under opbygning. Gå ind på vores hjemmeside på www.fastlanenordic.com for at se de seneste opdateringer.



NETAPP PROFESSIONAL

NetApp er en af de ledende aktører indenfor Storage. Med sine omkostningseffektive og kundetilpassede løsninger følger man markedets trend med hurtigere lagring og bedre udnyttelse af lagringspladsen. Vores originale kurser som leder frem til certificeringen og de Bootcamps vi til stadighed leverer, giver vores kunder de nødvendige kundskaber for at kunne håndtere deres NetApp-løsning. Vores stærke samarbejde med Cisco og VMware, giver plads til kundetilpassede kurser.



Data ONTAP Fundamentals (DOTF)

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

Duration 5 days Price 37.500 DKK



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

Data ONTAP 8.0 7-Mode Administration (DOT87M)

Learn about Data ONTAP 8.0, the next generation data storage operating system from NetApp that combines the stability of Data ONTAP 7G with the cutting-edge scalable clustering of Data ONTAP GX. Explore basic administration of a storage system running Data ONTAP

Duration 5 days Price 37.500 DKK

8.0 7-mode, the successor of Data ONTAP 7G. By diving deeper into administrative techniques, you will acquire the knowledge to become a successful storage administrator. **Prerequisite:** The Student should have completed the Web Based Training "Introduction to NetApp Products".

Data ONTAP CIFS Administration (CIFS)

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

Duration 2 days Price 14.900 DKK

users, the licensing and setting up of CIFS on the storage system, configuring files and options, administering a storage system including creating and managing shares, users, and groups, and troubleshooting CIFS problems. **Prerequisite:** The Student should have attended DOTF.

Data ONTAP NFS Administration (NFS)

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

Duration 1 day Price 7.500 DKK

course covers the NFS protocol and implementation criteria; configuration, administration, and monitoring options; and troubleshooting NFS problems. **Prerequisite:** The Student should have attended DOTF.

Data ONTAP SAN Administration (SAN)

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 pro-

Duration 3 days Price 22.500 DKK

visioning options, creation and management of LUNs and volumes, multipathing and high availability, Fibre Channel cf modes, and troubleshooting techniques. **Prerequisite:** The Student should have attended DOTF.

High Availability (NAHA)

The course will teach the Student to implement Clustered Failover, SyncMirror and MetroCluster to ensure continuous data availability in the enterprise and rapid recovery of data in the event of a disaster.

Duration 2 days Price 14.900 DKK

The course focuses on Licensing, Cabling, Configuration, and Testing each of the Techniques. Finally there will be an important section on Data Recovery. **Prerequisite:** The Student should have attended DOTF.

NetApp Protection Software Administration (NPSA)

This instructor-led course is for administrators and support personnel who will use SnapMirror, SnapRestore, SnapVault, Open Systems SnapVault, SnapLock, and LockVault to manage mission-critical data in the enterprise. Basic information on ReplicatorX and Protection

Duration 3 days Price 22.500 DKK

Manager and Provisioning Manager are presented. A mixture of lecture and hands-on activities teach concepts and techniques needed to effectively use these solutions. **Prerequisite:** The Student should have attended DOTF.

NETAPP PROFESSIONAL **FORTS**

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 in-

Duration 3 days Price 22.500 DKK

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

NCDA Boot Camp (NCDABC)

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

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

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

Duration 10 days Price 74.500 DKK



Accelerated NCDA Boot Camp Data ONTAP 8.0 7-Mode (ANCDABC87) **Duration 5 days Price 44.900 DKK**

This course is to prepare for success when taking the NetApp Certified Data Management 7-Mode Administrator Exam. Through lectures and labs, you will learn the essential features and functions of the Data ONTAP 8.0 7-Mode operating system including network-attached

storage administration and storage area networks configuration. **Prerequisite:** The Student should have three years of experience in a storage related function, such as storage administrator or field engineer and six months experience with NetApp storage solutions.

Advanced NCDA Boot Camp (ANCDABC)

This five day intensive, advanced boot camp will prepare you to pass all the NetApp exams required to achieve the NetApp Certified Data Management Administrator (NCDA) certification. The hands-on

Duration 5 days Price 37.500 DKK

course covers the required knowledge from the following courses: CIFS, NFS, NPSA, SAN, and NAHA. **Prerequisite:** The Student should have attended the instructor-led DOTF.

NCDA Recertification Workshop (RNCDA)

This two-day Workshop is prepares the Student for the necessary recertification test. The compressed schedule is just for refreshing the

Duration 2 days Price 14.900 DKK

knowledge and update the skills to the latest technology. **Prerequisite:** The Student should have a NCDA.

NETAPP SPECIALIST
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 22.500 DKK

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

Operations Manager, Protection Manager, & Provisioning Manager Admin (OPSMGR) Duration 5 days Price 37.500 DKK

Discover how to simplify your storage management tasks. Through lectures and labs, you will learn how to install, configure, and administer NetApp Operations Manager 4.0, Protection Manager 4.0, Provisioning Manager 4.0, as well as Performance Advisor 4.0. By the

end of this course, you will be able to successfully install, configure, and troubleshoot Operations Manager 4.0, Protection Manager 4.0, Provisioning Manager 4.0, and Performance Advisor 4.0.

Prerequisite: The Student should have attended DOTF.

NetApp VTL Administration (NAVTL)

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 22.500 DKK

case study will tie together the knowledge and hands-on experience gained in this course. Bring your knowledge and your company's NetApp VTL to the next level. **Prerequisite:** The Student should have knowledge of networking terminology and management, background in UNIX or Windows server administration, and knowledge of SAN administration.

DataFort Storage Security Administration (DSSA)

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

Duration 5 days Price 37.500 DKK



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.

Duration 5 days Price 37.500 DKK

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

VMware ESX on NetApp Storage Systems (NAVMW)

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

Duration 5 days Price 37.500 DKK

also covered, as is the planning and operation of VMware ESX Server and NetApp storage systems in a high availability scenario.

Prerequisite: The Student should have knowledge on NetApp storage systems, VMware ESX, Linux and Windows servers.

NETAPP SPECIALIST **FORTS**
SANscreen Fundamentals (SANSF)

Learn the features and functions of the SANscreen suite of products. This hands-on course will show you how SANscreen manages storage through service policies and change-planning capabilities to provide improved resource and capacity utilization. Product demonstrations will enable you to become proficient with many aspects of SAN-

Duration 2 days Price 14.900 DKK
 screen. By the end of this course, you will be able to explain how SANscreen can extend data center automation to a networked storage environment for more efficient operations. **Prerequisite:** The Student should have knowledge of SANscreen Deployment (WBT), and basic working knowledge of Fibre Channel and storage networking.

Data ONTAP 7.3 Tuning & Troubleshooting (NATT)

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

Duration 5 days Price 37.500 DKK


NetApp Storage Systems & Cisco MDS Switch Administration (NACSA) Duration 5 days Price 37.500 DKK

This course covers the theory and the practical side of configuring and administering an efficient and secure Storage Area Network (SAN) using Cisco MDS switches and NetApp storage systems. Further topics are high availability aspects and analysis, correction and avoid-

ance of malfunctions and performance issues in a SAN. **Prerequisite:** The Student should have profound Solaris and/or Windows know-how; and basic storage knowledge.

NetApp Storage Systems & Brocade Switch Administration (NABSA) Duration 5 days Price 37.500 DKK

This course covers the theory and the practical side of configuring and administering an efficient and secure Storage Area Network (SAN) using Brocade switches. Further topics are security aspects and

analysis, correction and avoidance of malfunctions and performance issues in a SAN. **Prerequisite:** The Student should have profound Solaris and/or Windows know-how; and basic storage knowledge.

MICROSOFT ON NETAPP STORAGE SYSTEMS
Microsoft Exchange on NetApp Storage Systems (MSEXC)

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.

Duration 4 days Price 29.900 DKK
 bleshooting. **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)

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

Duration 5 days Price 37.500 DKK
 able to confidently deploy Microsoft SQL Server on NetApp storage systems. **Prerequisite:** The Student should have attended DOTF, NPSA and SAN. Furthermore the Student should have at least one of the following: Microsoft Course 2072A: Administering a Microsoft SQL Server 2000 Database, Microsoft Exam 70-228: System Administration for Microsoft SQL Server 2000, or one year of Microsoft SQL Server 2005 experience.

ARCHITECTING VIRTUALIZATION SOLUTIONS ON NETAPP STORAGE

Implementing Secure Multi-Tenancy (ISMT)

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

Duration 5 days Price 37.500 DKK

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 29.900 DKK

This course shows how to design and implement virtualization solutions on NetApp storage systems. The course first reviews the NetApp virtualization service delivery process: students learn how to use NetApp virtualization service products to engage with customers to design and implement virtualization solutions. Next, the course shows how to deploy VMware Virtual Infrastructure on NetApp storage systems and how to achieve maximum value with VMware and NetApp integrated features. Next, this course shows how to deploy Citrix XenServer on NetApp storage systems and how to achieve maximum value with Citrix XenServer and NetApp integrated

features. Finally, the course shows how to deploy Microsoft Windows Server Virtualization (Hyper-V) on NetApp storage systems and how to achieve maximum value with Hyper-V and NetApp integrated features. Hands on lab exercises consolidate the knowledge acquired in the course. **Prerequisite:** The Student should have NetApp Core Technical Training and NetApp SAN Core Technical Training or equivalent knowledge. Furthermore it is recommended that the Student have VMware Virtual Infrastructure 3 Fast Track, Citrix XenServer Enterprise Edition 4.1: Administration and Microsoft Hyper-V technical training or equivalent knowledge.

Architecting VMware Solutions on NetApp Storage (AVS)

This course will cover the basics of a VMware environment and the NetApp value proposition within that environment. The course will include discussions and activities on architecting and design specifics for ESXi, Vsphere, and Desktop Management. It will also describe the NetApp best practices in these environments. There will be training and activities focused on the areas of Backup and Recovery, Deduplication, Cloning, and Sizing. **Prerequisite:** The Student should have

Duration 2 days Price 14.900 DKK

a basic understanding of SAN, NAS, NetApp, and VMware technologies. Suggested courses: FastTrack 102 (ASAP) Part Number: CP-ED-ILT-ASAP3, VMware ESX on NetApp Storage, ESXi overview webinar, and Virtual Desktop Management overview Webinar available from VMware.



Architecting Citrix Solutions on NetApp Storage (ACS)

Learn how NetApp technologies can be integrated with Citrix to provide compelling virtualization solutions. In this course, you will learn architecture, design specifics, and best practices for XenServer and XenDesktop. Through hands-on activities, you will practice creating virtual machines in a Citrix environment. By the end of this

Duration 2 days Price 14.900 DKK

course, you will be able to demonstrate to customers that value of Citrix solutions on NetApp. **Prerequisite:** The Student should have a basic understanding of SAN, NAS, NetApp, and Citrix technologies. Suggested courses: XenServer and XenDesktop Overview Webinar, available from Citrix.

Architecting Hyper-V Solutions on NetApp Storage (AHS)

In this course you will learn the basics of a Hyper-V environment along with the value proposition of NetApp within that environment. The course will include discussions and activities on architecting and design specifics for Hyper-V, along with the NetApp best practices in these environments. There will also be training and activities focused

Duration 2 days Price 14.900 DKK

on the areas of Backup and Recovery, Deduplication, Cloning, and Sizing. **Prerequisite:** The Student should have a basic understanding of SAN, NAS, NetApp, and Hyper-V technologies. Suggested courses: FastTrack 102 (ASAP) Part Number: CP-ED-ILT-ASAP3 and ABCs of Hyper-V on NetApp Storage.

ARCHITECTING VIRTUALIZATION SOLUTIONS ON NETAPP STORAGE FORTS

Design and Implement VMware Solutions on NetApp Storage (DIVMW) Duration 2 days Price 14.900 DKK

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

enabling you to design and implement customized virtualization solutions for your customers.

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

MULTI-VENDOR TRAINING

Virtual Dynamic Data Center (VDDC)

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

Prerequisite: None.

Duration 1 day Price 7.500 DKK

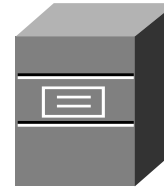


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IBM BASIC & INTERMEDIATE

IBM samarbejder med NetApp om at levere produktfamilien N Series. Vi uddanner i N Series på samme måde og med næsten samme kurser som i NetApps sortimentet. Vores instruktører har erfaring i både produktfamilierne og vores lab er tilpasset efter hvilken leverandør vi repræsenterer.



IBM N Series Data ONTAP Fundamentals (DOTFN)

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

Duration 5 days Price 37.500 DKK



IBM N Series Data ONTAP CIFS Administration (CIFSN)

This is an instructor-led course designed for those who provide support and administration for a CIFS environment on IBM N series storage systems running the Data ONTAP operating system. The course is delivered using a Windows host. The course covers the different server environments where a storage system can support

Duration 2 days Price 14.900 DKK

Windows client users, the licensing and setting up of CIFS on the storage system, configuring files and options, administering a storage system including creating and managing shares, users, and groups, and troubleshooting CIFS problems. **Prerequisite:** The Student should have attended DOTFN.

IBM N Series Data ONTAP NFS Administration (NFSN)

This course is an instructor-led course designed for those who provide support and administration for an NFS environment on IBM N series storage systems running the Data ONTAP operating system. The course covers the NFS protocol and implementation criteria; con-

Duration 1 day Price 7.500 DKK

figuration, administration, and monitoring options; and troubleshooting NFS problems. **Prerequisite:** The Student should have attended DOTFN have working knowledge of UNIX or equivalent experience and familiarity with networking concepts.

IBM N Series Data ONTAP SAN Administration (SANN)

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 pro-

Duration 3 days Price 22.500 DKK

visioning options, creation and management of LUNs and volumes, multipathing and high availability, Fibre Channel cf modes, and troubleshooting techniques. **Prerequisite:** The Student should have attended DOTFN.

IBM N Series NetApp Protection Software Administration (NPSAN)

Learn how to protect your mission-critical data using IBM N series data protection software. A mixture of lecture and hands-on activities will show you how to implement SnapVault, SnapMirror, and SnapRestore to protect your enterprise data from corruption and

Duration 3 days Price 22.500 DKK

outages. Learn how to integrate Protection Manager and Provisioning Manager to enhance the manageability of your IBM N series data protection solution.

Prerequisite: The Student should have attended DOTFN.

Vores stærke samarbejde med bl.a. HP, giver os mulighed for at levere en komplet VMware uddannelse på det Nordiske marked. VMware er en del af det koncept der via netværket leder videre til MultiStorage og Multi-Tenancy.



VMware vSphere 4: What's New (VIWN)

This hands-on training course explores new features in future versions of VMware vCenter Server and ESX/ESXi, as well as how to upgrade. Among the topics are: The Next Generation of VI, Infrastructure Administration, Networking, Storage, Resource Manage-

Duration 2 days Price 12.550 SEK

ment, and Business Continuity. **Prerequisite:** The Student should have completed VMware Infrastructure 3: Install and Configure V3.5 (VIIC) or equivalent experience with VMware ESX and vCenter Server.

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

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

Duration 4 days Price 27.900 SEK

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



VMware vSphere 4: Fast Track (VVFT)

This intensive, extended-hours training course focuses on installing, configuring, managing, and troubleshooting VMware vSphere. It combines the content of the VMware vSphere 4: Install, Configure, Manage course with advanced tasks and skills for configuring a highly available and scalable virtual infrastructure. Upon completing this

Duration 5 days Price 36.500 SEK

course, you can take the examination to qualify as a VMware Certified Professional. **Prerequisite:** The Student should have a willingness to participate in a demanding, high-intensity training experience, and comfort with system administration using command-line interfaces.

VMware vSphere 4: Manage Availability (VMA)

This hands-on training course equips system administrators with the knowledge, skills, and abilities to achieve competence in building and running a highly available VMware vSphere 4 virtual infrastructure. **Prerequisite:** The Student should have attended VICM, VIWN, or have prior experience using VMware ESX/ESXi and vCenter products. Fur-

Duration 1 day Price 6.275 SEK

thermore the Student should be able to: List the components of Business Continuity, Describe Microsoft Windows 2003 and 2008 cluster configurations, Configure a VMware High Availability cluster using non-default options, Deploy fault-tolerant virtual machines using VMware Fault Tolerance (FT), and Deploy VMware vCenter Server Heartbeat.

VMware vSphere 4: Troubleshooting (VSTS)

This lab-intensive course focuses on providing system administrators with the advanced knowledge, skills, and abilities to achieve competence in troubleshooting the VMware vSphere virtual infrastructure. In this course, you will spend most of the time diagnosing and rectifying configuration problems created on VMware ESX/ESXi hosts and

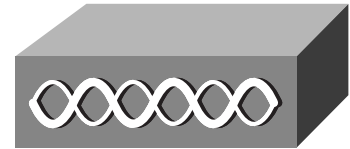
Duration 4 days Price 22.900 SEK

VMware vCenter Server systems. Upon completion of this course, you can take the examination to become a VMware Certified Professional. **Prerequisite:** The Student should have attended VICM, VMA, and VVFT and have administration experience with ESX/ESXi and vCenter Server.

Ud over de leverandørafhængige kurser, har vi et stort udbud af såkaldt generiske kurser uafhængigt af leverandører. En af årsagerne kan være at håndtere et teknikområde, de leverandørafhængige kurser ikke dækker. Kurserne er opbygget efter samme pædagogik med en blanding af teori og praksis, men de er tilpassede til alle miljøer da de omhandler teknikker og ikke produkterne.

FAST LANE DATAKOM

Vi begynder med TCP/IP som er grundkurserne om hvad man kan i netværksverdenen. De er en god begyndelse inden man begynder på Cisco-sporet, men er også en god og stabil baggrundsviden hvis man skal arbejde med IP generelt. Alle vores instruktører har arbejdet længe med IP, og lærer dig mere.



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 10.900 DKK

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)

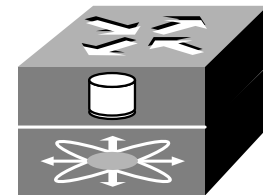
In this course participants learn to identify, correct, and avoid problems in a TCP/IP network. Participants will use a protocol analyzer. Among the topics discussed are: TCP/IP Troubleshooting Overview,

Duration 2 days Price 8.500 DKK

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

FAST LANE STORAGE

SAN-kurserne er en god fortsættelse af TCP/IP kurserne, hvis du skal arbejde med Storage. Vi har udviklet dette kursus som en hurtig og effektiv start indenfor Storage, som gør det lettere at gå på de forskellige Storage-leverandørers kurser. Samme instruktører som holder NetApp-, Cisco- og Brocade-kurserne, holder vores SAN-kurser, og det gør, at vi lære dig mere.



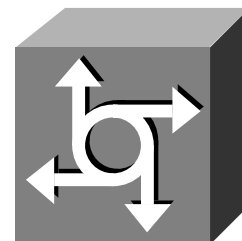
Storage Foundation (FL-SAN)

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 24.900 DKK

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

Dataopsamlingskurser gør nytte. Vores uddannelse med WireShark giver en indgående gennemgang af selve analyseværktøjet, men det vigtigste er selve tankesættet. Vores kurser fokuserer mere på metode og teknik, før netværksanalyse og softwaren i sig selv, på selve labbet. Du kan deltage i WireShark-kurserne uanset hvilket "Snifferværkøj" du arbejder med i dagligdagen. Nyt for efteråret er, at vi komplimenterer kurserne med analyse af IP-baserede netværk, med et efterspurgt kursus i analyse af netværk med Microsoft-baserede servere og klienter. Vores instruktører arbejder med forskellige opsamlingsværktøjer og har gjort det i mere en 15 år. Vi garanterer at vi lærer dig mere.



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 8.500 DKK

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 12.500 DKK



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 19.900 DKK

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.

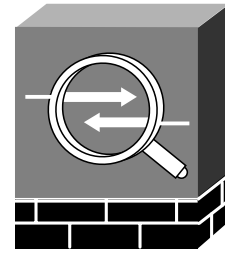
Analysing MS-Windows Networking (AWN)

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 12.500 DKK

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.

Her har vi efter flere opfordringer valgt at præsentere et Anti-hacking-kursus, for at få vores kunder til at forstå hvordan en hacker tænker. Vi kommer til at præsentere flere kurser over tid, indenfor det samme område. Det andet kursus er om Radius og Tacacs+ og hvordan det fungerer med Cisco Access Control Server (ACS). Mange kunder har spurgt om vi kan opbygge et kursus indenfor dette område, og her er det. Vores instruktører kan dette, og lærer dig mere.



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 16.900 DKK

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.

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

Duration 3 days Price 17.200 DKK

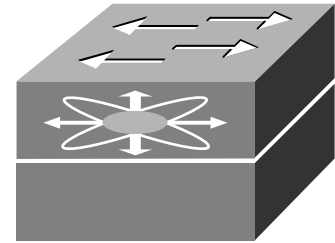
This course teaches you how to provide secure access to your network using the Cisco Secure Access Control Server (ACS) 5.0, interoperating with security features in Cisco IOS Software. You will gain a thorough understanding of the operation of the Cisco Secure ACS to control access to network services 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.

Lær dig mere!

Du kan booke dine kurser direkte på www.fastlanenordic.com. Hvis du hellere vil tale med nogen, kan du ringe til os på 70 1453 70. Vil du spørge om noget, men har du telefonskræk eller kommet i tanke om spørgsmålet udenfor kontortid, eller synes du blot det er mere enkelt med e-mail, kan du maile os på info@fastlanenordic.com.

SNIA står for Storage Networking Industry Association. SNIA startede i begyndelsen af 90'erne og virksomhedens opgave er at lede storage-industriens arbejde med at udvikle og forbedre standarder, udvikle teknikområder og at udvikle uddannelse der kan leveres World Wide. Nethous/Exello har den eneste lærer blandt deres Storage Ekspertes, og han er også ekspert kommentator i CS. Vores samarbejde giver os muligheden for at levere SNIA's leverandør uafhængige kurser i Danmark.



Storage Networking Foundation (SNF)

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

Duration 5 days Price 23.900 DKK



Storage Networking Management & Administration (SNMA)

This course will give you the knowledge needed to manage and administer a SAN using Fibre Channel technology. It covers Fibre Channel specific topics for the day to day management of a storage networking environment and data center. This course will not cover basic concepts and technologies or detailed developer topics. This course focuses on the objectives defined for the SNIA Storage Networking Management/Administration exam. This exam has been

Duration 5 days Price 23.900 DKK

carefully constructed to certify that the successful candidate has the knowledge necessary to fulfill their responsibilities as a FC Storage Administrator. The exam objectives were derived from a SNIA sanctioned Job Task Analysis. The JTA was structured to determine the skills needed by a Storage Administrator. **Prerequisite:** The Student should have attended SNF and have a understanding of traditional Networking Technology and SCSI/Disk Technology.

Lær dig mere!

Du kan booke dine kurser direkte på www.fastlanenordic.com. Hvis du hellere vil tale med nogen, kan du ringe til os på 70 1453 70. Vil du spørge om noget, men har du telefonskræk eller kommet i tanke om spørgsmålet udenfor kontortid, eller synes du blot det er mere enkelt med e-mail, kan du maile os på info@fastlanenordic.com.

CARIN RECORDING

Carin Recording har udviklet udstyr til at optage samtaler i IP-verdenen. Banker, børser, finansvirksomheder, alarmcentraler og sikkerhedsvirksomheder anvender produkterne. Gennem støtte fra bl.a. Cisco har udviklingen og lanceringen fremskyndet, og Carin er i dag et konkurrencedygtigt alternativ. Gennem vores samarbejde har Carin taget endnu et skridt, og vi arbejder nu med to teknikuddannelser. Et kortere kursus for dig som skal sælge, og et lidt dybere for dig der skal konfigurere og installere produkterne. Udviklerne af produkterne underviser, og derfor lærer vi sig mere.



Voice Recording Consultant (CA-VRC)

The course provides knowledge of market segments using call recording for business documentation, quality assurance, threat management and other applications. Participant will get a good understanding of information security and privacy concerns of call recording, allowing them to solve real life customer cases either in

Duration 1 day Price 3.900 DKK

a paid pre study or in a sales situation. The documentation from the course includes of check lists for sales qualification, legal whitepaper, prestudy draft and more, ready to be used on real life consulting assignments. **Prerequisite:** The Student should have general IT pre-sales and consulting experience.

Carin Systems Engineering (CA-CSE)

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

Duration 1 day Price 6.900 DKK



Praktiske oplysninger og almene vilkår

Tilmelding

Tilmelding sker lettest på www.fastlanenordic.com, via e-mail: info@fastlanenordic.com eller fax på +45 5761 4507.

Vi bekræfter din tilmelding med detaljeret information om kurset du har meldt dig til (tid, sted og dato) senest 14 dage inden kursusstart via e-mail. Vi forbeholder os retten til at indstille et kursus senest 14 dage inden kursusstart hvis deltagerantallet er for lavt.

Kursuspriser

Alle priser er nettopriser. Moms eller andre nationale skatter tilkommer. Kursusafgiften inkluderer dokumentation, frokost samt for- og eftermiddagskaffe.

Ændringer

Vi accepterer ændring af kursusdato frem til 14 dage inden kursusstart. Kursusdatoen kan kun ændres en gang.

Af-bookning

Af-bookning skal sendes skriftligt via post eller e-mail. Ifølge branchens standardregler for af-bookning debiteres 50% af kursusafgiften ved af-bookning 4-2 uger før kursusstart og 100% af kursusafgiften ved af-bookning 2-0 uger før kursusstart. De kan erstatte tilmeldte deltagere med andre frem til kursusstart.

Såfremt vi må indstille et kursus på grund af Force Majeure eller anden uforudsigelig anledning (fx instruktørs ulykke eller sygdom) er Fast Lanes ansvar begrænset til tilbagebetaling af kursusafgiften. Virksomheden er ikke ansvarlig for tilbagebetaling af rejse- og logi omkostninger.

Kan en kursusedtager ikke møde frem til kursusstart på grund af sygdom tilbydes ny dato ved fremvisning af lægeerklæring. Ingen af-bookningsafgift fremsendes i sådanne tilfælde.

Betalingsvilkår

Fakturering sker efter tilmelding, dog tidligst 6 uger før kursusstart. Betalingsvilkår er tyve (20) dage.

Betaling for kursus skal være lagt for kursusstart.

Garanti

Fast Lane tilbyder uddannelse af højeste kvalitet indenfor High-End Networking, Storage och Telekommunikation.

Hvis du ikke er tilfreds efter den første kursusdag, kan du meddele dette til din salgsansvarlige og returnere dokumentationen. Da tilbagebetales hele kursusafgiften, eller din kursusplads bookes om til et andet kursus.

B

Vi har komplette personlige pakker med rabat ...

CCNA – Cisco Certified Network Associate

ICND1 & ICND2 og 2 tester.

29.900 kr (Besparelse ca 8.000 kr)

CCNA – Concentration

ICND1 & ICND2 samt en af IUWNE, IIUC eller IINS og 3 tester.

47.900 kr (Besparelse ca 12.000 kr)

CCDA – Cisco Certified Design Associate

ICND1, ICND2 & DESGN og 3 tester.

44.900 kr (Besparelse ca 12.000 kr)

CCNP – Cisco Certified Network Professional

ROUTE, SWITCH & TSHOOT og 3 tester.

72.900 kr (Besparelse ca 19.000 kr)

CCDP – Cisco Certified Design Professional

ROUTE, SWITCH & ARCH og 3 tester.

50.900 kr (Besparelse ca 13.000 kr)

CCNP Wireless – Cisco Certified

Network Professional Wireless

CUWSS, IUWMS, IAUWS & IUWVN og 4 tester.

72.900 kr (Besparelse ca 19.000 kr)

CCIP – Cisco Certified Internetwork Professional

ROUTE, BGP, MPLS & QoS og 4 tester.

72.900 kr (Besparelse ca 19.000 kr)

CCVP – Cisco Certified Voice Professional

CVOICE, QoS, CIPT1, CIPT2 & TUC og 5 tester.

90.900 kr (Besparelse ca 24.000 kr)

CCSP – Cisco Certified Security Professional

IINS, SNRS, SNAF & IPS samt en af SNA, CANAC eller MARS og 5 tester.

65.900 kr (Besparelse ca 17.000 kr)

Vilkår

- Disse pakker sælges eksklusivt og kan ikke kombineres med andre tilbud.
- Kurserne skal gennemføres indenfor 12 måneder fra indkøb.
- Samme deltager skal gå samtlige kurser i en kursuspakke.
- Kursuspakken kan ikke overdrages.

Er du interesseret i at købe nogle af vores komplette certificeringspakker, kontakt os på info@fastlanenordic.com eller 70 1453 70.

... og Uddannelseskort som giver rabat til hele virksomheden.

Vi har lavet vores mængderabatsystem om. Fra at have været et system med forskellige regler for forskellige kurser og virksomheder, har vi bestemt os for et enkelt system med tre rabatkort.

Vores tre uddannelseskort hedder 25, 50 og 100. De giver modsvarende antal point. NetApp-kurserne koster to point mens øvrige kurser koster et point pr. dag hvilket bliver enkelt og retvisende. Derudover giver det masser af chancer for hele virksomheden til at møde vores fantastiske lærere.

Er du interesseret i at købe et Uddannelseskort, så kontakt os på info@fastlanenordic.com eller 70 1453 70.



Fast Lane Uddannelseskort 25

Kortet giver din virksomhed 25 point at benytte på vores kurser. Du vælger selv hvordan du og dine sansatte skal fordele pointene.

83.600 kr

Rabat ca. 15 %, Besparelse ca. 15.000 kr.

Fast Lane Uddannelseskort 50

Kortet giver din virksomhed 50 point at benytte på vores kurser. Du vælger selv hvordan du og dine sansatte skal fordele pointene.

159.600 kr

Rabat ca. 20 %, Besparelse ca. 40.000 kr.

Fast Lane Uddannelseskort 100

Kortet giver din virksomhed 100 point at benytte på vores kurser. Du vælger selv hvordan du og dine sansatte skal fordele pointene.

298.800 kr

Rabat ca. 25 %, Besparelse ca. 100.000 kr.

Betingelser

Uddannelseskort kan ikke kombineres med andre tilbud. Kurserne skal gennemføres inden for 12 måneder fra købsdatoen. Uddannelseskortet kan ikke overdrages til andre virksomheder.



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