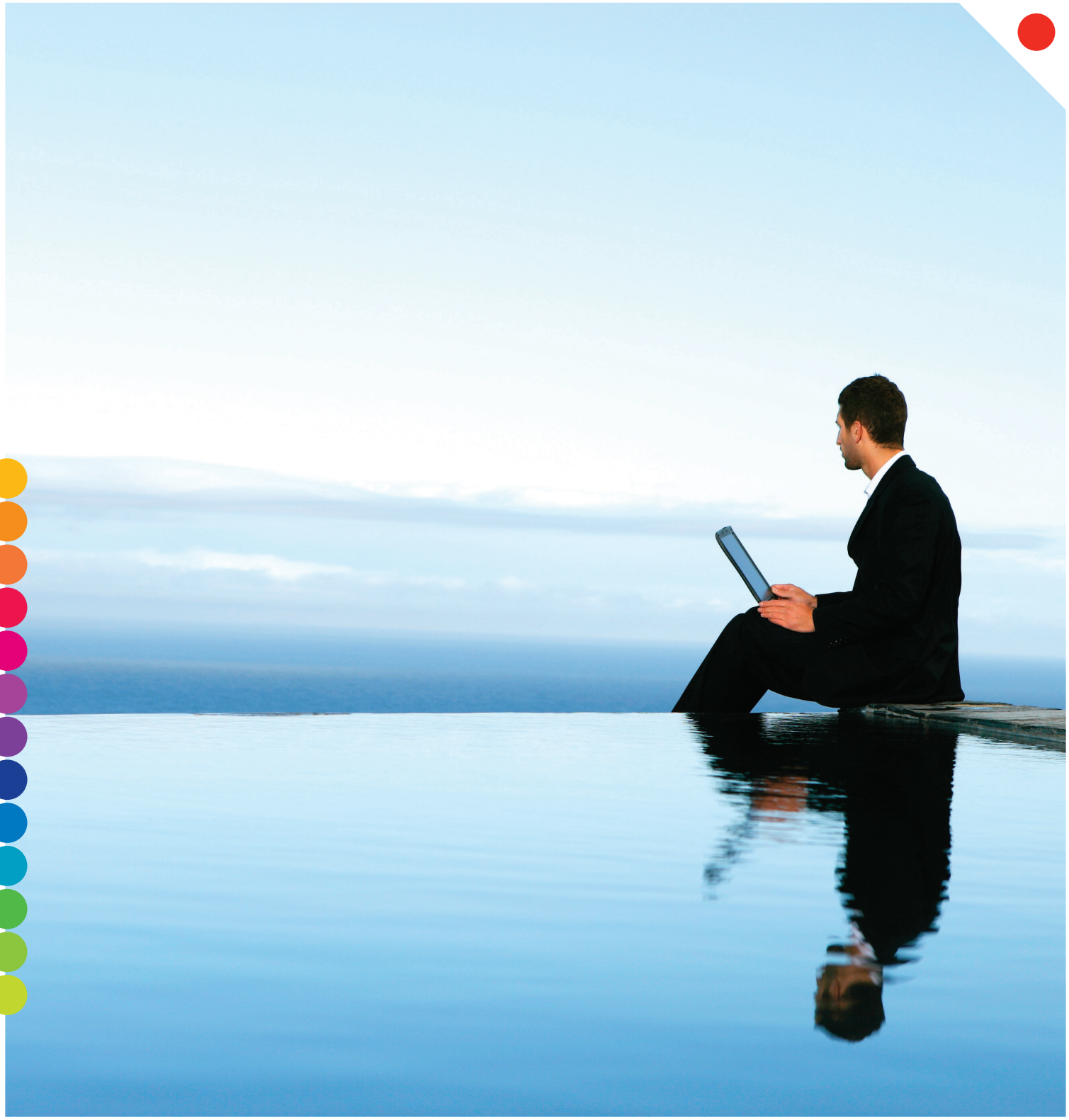
fast lane

Cisco Career Certifications and Paths



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Welcome to Fast Lane

Fast Lane is proud to present its new Cisco Career Certification brochure. This fully updated guide covers all of the developments in training and certification Cisco has made during the last months.

One such change is the introduction of the CCNA Concentrators. Designed to build upon Cisco's most popular career certification CCNA, these highly specialized Associate Level concentrations offer individuals a career stepping stone in the converged technologies that make up today's sophisticated network. Furthermore, with the introduction of new Data Center courses the Data Center certifications have been updated.

All main certification tracks are available in our training centers in De Meern (Utrecht) and Brussels. We have now expanded our open enrollment schedule, providing you with a greater number of opportunities to prepare for your certification exams.

We hope this Career Certification brochure will prove a useful tool in helping you organize an appropriate training schedule. If you need additional help, please contact our helpful customer services team and they will do all they can to assist in designing an effective plan that addresses your specific needs and circumstances.

We look forward to working with you.

Herman Goedman
Managing Director, Fast Lane Benelux

Cisco Career Certifications: General and Specialist

The Cisco Career Certifications program brings valuable, measurable rewards to network professionals, their managers, and the organizations that employ them.

The first step in general Cisco Career Certifications begins either with CCENT as an interim step to Associate level, or directly with CCNA for network operations or CCDA for network design. Think of the Associate level as the foundation of networking certification.

General Certifications: Three Levels of Certification

- **Associate**
  The first step in Cisco networking begins at the Associate level.
- **Professional**
  This is the advanced level of certification.
- **Expert**
  This is the highest level of achievement for network professionals, certifying an individual as an expert or master.

General Certifications: Six Different Paths

- **Routing and Switching**
  networks in which LAN and WAN routers and switches reside.
- **Design**
  This path is aimed at professionals who design Cisco technology-based networks in which LAN and WAN routers and switches reside.
- **Network Security**
  This path is directed toward network professionals who design and implement Cisco Secure networks.
- **Service Provider**
  This path is aimed at professionals working with infrastructure or access solutions in a Cisco end-to-end environment primarily within the telecommunications arena.
- **Storage Networking**
  This path is for professionals who implement storage solutions over extended network infrastructure using multiple transport options.
- **Voice / Unified Communications**
  This path is directed toward network professionals who install and maintain Voice solutions over IP networks.

	Associate	Professional	Expert
Routing & Switching	CCENT / CCNA	CCNP	CCIE Routing & Switching
Design	CCNA / CCDA	CCDP	CCDE
Network Security	CCNA Security	CCSP	CCIE Security
Service Provider	CCNA	CCIP	CCIE Service Provider
Storage Networking	CCNA	CCNP	CCIE Storage Networking
Voice	CCNA Voice	CCVP	CCIE Voice

Specialist Certifications

The Specialist Certifications are focused on Cisco's technology solutions areas, like Routing & Switching, Unified Communications or Data Center. All Specialist Certifications are based on one of the General Certifications like CCNA, CCDA or CCDP.

Advanced Routing & Switching	Cisco Advanced Routing and Switching Sales Specialist Cisco Advanced Routing and Switching Solutions Specialist Cisco Advanced Routing and Switching Field Specialist
Data Center Application Services	Cisco Data Center Application Services Design Specialist Cisco Data Center Application Services Support Specialist
Data Center Networking Infrastructure	Cisco Data Center Networking Sales Specialist Cisco Data Center Networking Infrastructure Design Specialist Cisco Data Center Networking Infrastructure Support Specialist
Data Center Storage Networking	Cisco Data Center Storage Networking Sales Specialist Cisco Data Center Storage Networking Design Specialist Cisco Data Center Storage Networking Support Specialist
Express Foundation	Cisco Express Foundation Sales Specialist Cisco Express Foundation Design Specialist Cisco Express Foundation Field Specialist
IP Communications	Cisco Advanced IP Communications Sales Specialist Cisco IP Communications Express Sales Specialist Cisco IP Communications Express Specialist Cisco IP Contact Center Express Specialist Cisco IP Telephony Design Specialist Cisco Unified Rich Media Communications Specialist Cisco Unity Design Specialist Cisco Unity Support Specialist Cisco Unified Presence Specialist
VPN and Security	Cisco ASA Specialist Cisco IOS Security Specialist Cisco IPS Specialist Cisco Network Admission Control Specialist Cisco Security Sales Specialist Cisco Security Solutions and Design Specialist
Wireless LAN	Cisco Advanced Wireless LAN Sales Specialist Cisco Advanced Wireless LAN Design Specialist Cisco Advanced Wireless LAN Field Specialist

General Certifications

Associate Level

Cisco Certified Entry Networking Technician (CCENT)

A Cisco Certified Entry Networking Technician has the skills required for entry-level network support positions, the starting point for many successful careers in networking. Certified candidates have the knowledge and skills to install, operate and troubleshoot a small enterprise branch network, including basic network security. CCENT certification is the first step toward achieving CCNA, which covers medium size enterprise branch networks with more complex connections.

Prerequisites: No Prerequisites Required.

Training	Duration (days)	Exam
Interconnecting Cisco Networking Devices Part 1 (ICND1)	5	640-822 ICND1

Cisco Certified Network Associate (CCNA)

A certified candidate has the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN. CCNA includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills. This curriculum also includes (but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2),VLANs, Ethernet, access control lists (ACLs).

Prerequisites: No Prerequisites Required.

Training	Duration (days)	Exam	
Interconnecting Cisco Networking Devices Part 1 (ICND1)	5	640-822 ICND1	640-802 CCNA
Interconnecting Cisco Networking Devices Part 2 (ICND2)	5	640-816 ICND2	

Cisco Certified Design Associate (CCDA)

The CCDA certification indicates a foundation of network design for the Cisco converged network. A certified candidate can design routed and switched network infrastructures and services involving LAN, WAN, and broadband access for businesses and organizations.

Prerequisites: CCNA level knowledge and BCMSN level knowledge.

Training	Duration (days)	Exam
Designing for Cisco Internetwork Solutions (DESGN)	5	640-863 DESGN

New Cisco Certified Network Associate Voice (CCNA Voice)

The Cisco CCNA Voice certification confirms that an individual has the required skill set for specialized job roles in voice technologies such as voice technologies administrator, voice engineer, and voice manager. Individuals who achieve this certification have skills in VoIP technologies such as IP PBX, IP telephony, handset, call control, and voicemail solutions. Individuals also get exposure to the Cisco Unified Communications architecture and design covering mobility, presence, and TelePresence applications. The CCNA Voice certification enables employers to validate that their staff possess a strong foundation in voice applications and infrastructure concepts; and are capable of performing baseline installation, operating, and maintenance tasks on Cisco VoIP solutions, particularly the Smart Business Communications System from 8-250 lines.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam
New Implementing Cisco IOS Unified Communications (IIUC)	5	640-460 IIUC

New Cisco Certified Network Associate Security (CCNA Security)

CCNA Security certification meets the needs of IT professionals who are responsible for network security. It confirms an individual's skills for job roles such as Network Security Specialists, Security Administrators, and Network Security Support Engineers. Individuals who achieve this certification have skills including installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices and develops competency in the technologies that Cisco uses in its security structure.
Students completing the recommended Cisco training will gain an introduction to core security technologies as well as how to develop security policies and mitigate risks. IT organizations that employ CCNA Security-holders will have IT staff that can develop a security infrastructure, recognize threats and vulnerabilities to networks, and mitigate security threats.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam
New Implementing Cisco IOS Network Security (IINS)	5	640-553 IINS

New Cisco Certified Network Associate Wireless (CCNA Wireless)

CCNA Wireless recognizes the critical importance of professionals supporting wireless LANS including Networking Associates/Administrators, Wireless Support Specialists and WLAN project managers.
Individuals who achieve this certification have skills in the configuration, implementation and support of wireless LANs, specifically those networks using Cisco equipment. Students completing the recommended Cisco training are provided with information and practice activities to prepare them for, configuring, monitoring and troubleshooting basic tasks of a Cisco WLAN in SMB and Enterprise networks. Employers will be able to validate their staff have the skills needed for basic wireless networking on a Cisco WLAN in SMB and enterprise networks after completing certification.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam
New Implementing Cisco Unified Wireless Networking Essentials (IUWNE)	5	640-721 IUWNE

Professional Level

Cisco Certified Network Professional (CCNP)

A CCNP certified candidate has the ability to install, configure and troubleshoot converged local and wide area networks with 100 to 500 or more nodes. Network Professionals who achieve the CCNP certification have the knowledge and skills required to manage the routers and switches that form the network core, as well as edge applications that integrate voice, wireless, and security into the network.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam	
Building Scalable Cisco Internetworks (BSCI)	5	642-901 BSCI	642-892 Composite
Building Cisco Multilayer Switched Networks (BCMSN)	5	642-812 BCMSN	
Implementing Secure Converged Wide Area Networks (ISCW)	5	642-825 ISCW	
Optimizing Converged Cisco Networks (ONT)	5	642-845 ONT	

Cisco Certified Design Professional (CCDP)

A CCDP network professional can discuss, design, and create advanced addressing and routing, security, network management, data center, and IP multicast complex multi-layered enterprise architectures that include virtual private networking and wireless domains.

Prerequisites: Valid CCNA and CCDA certification.

Training	Duration (days)	Exam	
Building Scalable Cisco Internetworks (BSCI)	5	642-901 BSCI	642-892 Composite
Building Cisco Multilayer Switched Networks (BCMSN)	5	642-812 BCMSN	
Designing Cisco Network Service Architectures (ARCH)	5	642-873 ARCH	

Cisco Certified Internetwork Professional (CCIP)

The Cisco Certified Internetwork Professional provides individuals working in service provider organizations with competencies in infrastructure IP networking solutions. Certified CCIP candidates have detailed understanding of networking technologies in the service provider arena including IP routing, IP QoS, BGP, and MPLS.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam	
Building Scalable Cisco Internetworks (BSCI)	5	642-901 BSCI	
Implementing Cisco Quality of Service (QoS)	5	642-642 QOS	
Configuring BGP on Cisco Routers (BGP)	5	642-661 BGP	642-691 BGP+MPLS
Implementing Cisco MPLS (MPLS)	5	642-611 MPLS	

"Fast Lane's CCVP Bootcamp provided an intense yet in-depth learning experience, that proved fantastic preparation for the subsequent CCVP exams. Furthermore, a highly knowledgeable instructor and great lab material added a significant amount of value to the course. I strongly recommend that anyone looking to pursue a CCVP certification, within a limited time frame, should attend this bootcamp."

Luk Nicolaers, Networks Engineer, Quentris

Cisco Certified Voice Professional (CCVP)

The CCVP certification recognizes the increased importance placed on IT professionals of today who are responsible for integrating voice technology into underlying network architectures. Individuals who earn a CCVP certification can help create a telephony solution that is transparent, scalable, and manageable. Earning a CCVP certification validates a robust set of skills in implementing, operating, configuring, and troubleshooting a converged IP network. The certification content focuses on Cisco Unified Communications Manager (formerly Unified CallManager), Quality of Service (QoS), gateways, gatekeepers, IP phones, voice applications and utilities on Cisco routers and Cisco Catalyst switches.

Prerequisites: Valid CCNA Voice certification or Valid CCNA certification (until June 24, 2009).

There are now two paths that can be taken to achieve the CCVP certification.

For individuals using Cisco Unified Communications Manager the following path towards certification is recommended.

Training	Duration (days)	Exam
Cisco Voice over IP (CVOICE)	5	642-436 CVOICE
Quality of Service (QOS)	5	642-642 QOS
Cisco IP Telephony Part 1 v6.0 (CIPT1)	5	642-446 CIPT1
Cisco IP Telephony Part 2 v6.0 (CIPT2)	5	642-456 CIPT2
Troubleshooting Cisco Unified Communications Systems (TUC)	5	642-426 TUC

For individuals using Cisco Unified CallManager the following path towards certification is recommended.

Training	Duration (days)	Exam
Cisco Voice over IP (CVOICE)	5	642-436 CVOICE
Quality of Service (QOS)	5	642-642 QOS
Cisco IP Telephony Part 1 v4.1 (CIPT1v4)	5	642-444 CIPT 4.1
Cisco IP Telephony Part 2 v4.1 (CIPT2v4)	3	
Implementing Cisco Voice Gateways and Gatekeepers (GWGK)	5	642-453 GWGK
Troubleshooting Cisco Unified Communications Systems (TUC)	5	642-426 TUC

Cisco Certified Security Professional (CCSP)

The CCSP certification (Cisco Certified Security Professional) validates advanced knowledge and skills required to secure Cisco networks. With a CCSP, a network professional demonstrates the skills required to secure and manage network infrastructures to protect productivity and reduce costs. The CCSP curriculum emphasizes secure VPN management, Cisco Adaptive Security Device Manager (ASDM), PIX firewall, Adaptive Security Appliance (ASA), Intrusion Prevention Systems (IPS), Cisco Security Agent (CSA), and techniques to combine these technologies in a single, integrated network security solution.

Prerequisites: Valid CCNA Security certification or Valid CCNA certification + SND.

Note: SND last day to test is November 17, 2008. Retired exams that have been passed may be used towards exam requirements for three years.

Training	**Duration (days)**	**Exam**
Securing Cisco Network Devices (SND)	5	642-552 SND Last day to test November 17, 2008
Securing Networks with Cisco Routers and Switches (SNRS)	5	642-504 SNRS or 642-503 SNRS Last day to test January 18, 2009
New Securing Networks with ASA Fundamentals (SNAF) or Securing Networks with PIX and ASA (SNPA)	5 or 5	642-524 SNAF or 642-523 SNPA Last day to test January 18, 2009
Implementing Cisco Intrusion Prevention System (IPS)	4	642-533 IPS
Implementing Cisco NAC Appliance (CANAC or Implementing Cisco Security Monitoring, Analysis and Response System (MARS) or **New** Securing Networks with ASA Advanced (SNAA)	3 or 2 or 5	642-591 CANAC or 642-545 MARS or 642-544 MARS Last day to test January 18, 2009 or 642-515 SNAA

Expert Level

The Expert Level is Cisco's highest level of professional certification.

Requirements for Certification

There are no formal prerequisites for Expert Level certification; other professional certifications or training courses are not required. Instead, candidates must first pass a written qualification exam and then the corresponding hands-on lab exam. You are expected to have an in-depth understanding of the exam topics. It is strongly recommended to have three to five years of job experience before attempting certification

Step One: Written Exam

You must pass a two-hour, written qualification exam before you are allowed to schedule the Lab Exam. Please visit www.cisco.com/go/ccie for Exam Blueprints, Book Lists or Tips. Fast Lane recommends you to attend the courses in the relevant Professional Level first, for example CCNP for CCIE Routing & Switching. The exams are closed book and no outside reference materials are allowed.

Step Two: Lab Exam

The Lab Exams are eight-hour exams and take place at location of Cisco. You must pass the lab within three years of passing the written to achieve certification. Your first lab attempt must be made within 18 months.

CCIE Routing & Switching

- The most popular CCIE track;
- Expert knowledge of networking across LAN and WAN interfaces and variety of routers and switches;
- Solve complex connectivity problems to increase bandwidth, improve response times, maximize performance, and support global operations.

First step of achieving your CCIE Routing & Switching is passing the 350-001 CCIE Routing and Switching Written Exam. The written exam is a two-hour, multiple choice test with 100 questions covering Routing and Switching networking theory related to topics such as IP, IP routing, non-IP desktop protocols, bridging and switch-related technologies, and includes some equipment commands.
Second step is passing the CCIE Routing & Switching Lab Exam. To help you in preparing your lab exam, Fast Lane offers a 10 days CCIE Routing & Switching Bootcamp. In addition, relevant information can be found at www.cisco.com/go/ccie.

Cisco Certified Design Expert (CCDE)

- Advanced Network Infrastructures Design Principles and Fundamentals for large networks;
- A certified CCDE candidate can develop solutions which address planning, design, integration, optimization, operations, security and ongoing support focused at the infrastructure level for customer networks.

First step in achieving your CCDE certification is passing the 352-001 CCDE Written Exam. This written exam is a two-hour qualification exam which covers advanced networking infrastructure design principles and concepts.

Second step is passing the CCDE Practical Exam. This exam is still in development, however will be an eight-hour exam that will test your ability to identify, manage and create advanced solutions for large scale networks. More relevant information can be found at www.cisco.com/go/ccde.

CCIE Service Provider

- Expert level knowledge of IP fundamentals and technologies;
- Expertise in building an extensible service provider network infrastructure to deliver rich managed services;
- Advanced skills related to packet architecture and technologies important to service providers, such as service provisio- ning, MPLS, VPNs, service level agreements and basic security.

First step of achieving your CCIE Service Provider is passing the 350-029 CCIE Service Provider Written Exam. The written exam is a two-hour, multiple choice test with 100 questions covering areas such as Layer 2 networking, IP protocols, MPLS, VPN, security, quality of service and high availability technologies.

Second step is passing the CCIE Service Provider Lab Exam. To prepare for this exam, relevant information can be found at www.cisco.com/go/ccie.

CCIE Storage Networking

- Expert knowledge in the implementation and troubleshooting of storage area networks;
- Skilled with LANs, MANs and WANs over Fibre Channel, iSCSI, FCIP and FICON;
- Core IP routing not required, but must demonstrate in-depth understanding of Layer 2 and 3 network infrastructure.

First step of achieving your CCIE Storage Networking is passing the 350-040 CCIE Storage Networking Written Exam. The written exam is a two-hour, multiple choice test with 100 questions covering topics such as storage device protocols, troubleshooting tools, storage networking design, applications, and advanced management.

Second step is passing the CCIE Storage Networking Lab Exam. To prepare for this exam, relevant information can be found at www.cisco.com/go/ccie.

CCIE Voice

- Expert knowledge of Cisco Voice over IP (VoIP) products and solutions in an enterprise environment;
- Capable of building and configuring complex end-to-end telephony network, troubleshooting and resolving VoIP-related problems;
- Core IP routing not required, but must ensure quality of service using in-depth understanding of Layer 2 and 3 network infrastructure.

First step of achieving your CCIE Voice is passing the 350-030 CCIE Voice Written Exam. The written exam is a two-hour, multiple choice test with 100 questions covering those technologies and applications that comprise a Cisco Enterprise VoIP solution.

Second step is passing the CCIE Voice Lab Exam. To help you in preparing your lab exam, Fast Lane offers a 10 days CCIE Voice Bootcamp. In addition, relevant information can be found at www.cisco.com/go/ccie.

CCIE Security

- Expert knowledge of security and VPN solutions;
- Solid understanding of Windows, Unix, Linux and HTTP, SMTP, FTP and DNS;
- Core IP routing not required, but must demonstrate in-depth understanding of Layer 2 and 3 network infrastructure;
- Capable of configuring complex, end-to-end secure networks, troubleshooting integrated environments, and understanding common attacks and mitigation techniques.

First step of achieving your CCIE Security is passing the 350-018 CCIE Security Written Exam. The written exam is a two-hour, multiple choice test with 100 questions covering areas such as security protocols, operating systems, application protocols, security technologies, and Cisco security applications.

Second step is passing the CCIE Security Lab Exam. To help you in preparing your lab exam, Fast Lane offers a 10 days CCIE Security Bootcamp. In addition, relevant information can be found at www.cisco.com/go/ccie.

"The Fast Lane CCIE Voice Bootcamp proved to be a hugely rewarding experience. Not only did the course enable me to pass the CCIE Lab Exam, but it also served to fine tune my configuration knowledge for day-to-day practical application.
Due to the extensive time spent on labs, my configuration speed and understanding of trouble-shooting improved. The instructor, who was both highly knowledgeable and enthusiastic, provided valuable insights into exam strategies and techniques. As a result of his continued support, I have recently succeeded in passing my CCIE Voice Lab Exam, something I had previously feared might not be possible." Peter Van Passel, Freelance Consultant, VP-Unico

Specialist Certifications

The Specialist designation certifies the expertise of experienced technical professionals, and those who have earned Associate or Professional Level Cisco Career Certifications. By earning Specialist Certifications, network professionals can enhance their core networking knowledge in technologies such as Security, IP Communications and Wireless.

Advanced Routing and Switching

Cisco Routing and Switching Sales Specialist

The Cisco Routing and Switching Sales Specialist has a strong understanding of routing and switching concepts including the function of advanced features necessary to effectively position and sell end-to-end Cisco network solutions and wide area application services.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
Advanced Routing and Switching for Account Managers (ARSAM)	web based	646-003 ARSAM
Wide Area Application Services (WAAS) for Account Managers	web based	646-653 WAASAM
Cisco Lifecycle Services Express (LCSE)	2	650-393 LCSE

Cisco Advanced Routing and Switching Solutions Specialist

The Cisco Routing and Switching Solutions Specialist has the skills and knowledge required to identify the unique technical, business, and technological requirements of a given customer to create a networking solution that employs Cisco's advanced routing and switching capabilities.

Prerequisites: Valid CCDA certification.

Training	Duration (days)	Exam
Routing and Switching Solutions for System Engineers (RSSSE)	5	642-061 RSSSE
Wide Area Applications Services (WAAS)	3	642-651 WAASSE
Cisco Lifecycle Services Advanced Routing and Switching (LCSARS)	web based	650-059 LCSARS

Cisco Advanced Routing and Switching Field Specialist

The Cisco Routing and Switching Field Specialist has the skills and knowledge required to install, configure, monitor, and support the advanced capabilities of Cisco routing and switching solutions. Individuals who achieve this certification have specific expertise in Border Gateway Protocol (BGP), Multi-Protocol Label Switching (MPLS), Quality of Service (QoS), High Availability (HA), WAN optimization, and IP version 6 (IPv6).

Prerequisites: Valid CCNP certification.

Training	Duration (days)	Exam
Advanced Routing and Switching for Field Engineers (ARSFE)	5	642-066 ARSFE
Wide Area Application Services (WAAS)	3	642-652 WAASFE
Cisco Lifecycle Services Advanced Routing and Switching (LCSARS)	web based	650-059 LCSARS

New Data Center: Application Services

New Cisco Data Center Application Services Design Specialist

The Cisco Data Center Application Services Design Specialist has the presales knowledge of selecting and integrating Cisco Data Center Application Services products to design a highly scalable, efficient, and high performance Data Center Application Services solution based on Cisco's Data Center Architecture. Individuals who achieve this certification understand how to utilize and employ the features and benefits of the Cisco Application Control Engine Services Module and Appliance, the Cisco Global Site Selector and the Cisco Application Network Manager to create a scalable high performance Data Center design.

Prerequisites: Valid CCDA certification.

Training	Duration (days)	Exam
New Designing Cisco Data Center Application Services (DCASD)	5	642-972 DCASD

New Cisco Data Center Application Services Support Specialist

The Cisco Data Center Application Services Support Specialist has the post-sales knowledge of implementing, integrating, troubleshooting, and maintaining Cisco Data Center Application Services products in a highly scalable, efficient, and high-performance Data Center Application Services solution-based on Cisco's Data Center Architecture.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam
New Implementing Cisco Data Center Application Services (DCASI)	5	642-975 DCASI

New Data Center: Networking Infrastructure

New Cisco Data Center Networking Sales Specialist

The Cisco Data Center Networking Sales Specialists has an overall understanding of Data Center networking architecture, and the features and benefits of the Cisco Catalyst 6500 Series Switches, Cisco 4948 Switches, and Cisco Catalyst Blade Switch families. Individuals who achieve this certification understand how the Cisco Catalyst and Blade Switch families of products are used in a Data Center Network environment and can identify the most effective Cisco Catalyst or Blade Switch family product(s) to address specific customer requirements.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
Selling Cisco Data Center Networking Solutions (DCNS)	web based	646-976 DCNS

New Cisco Data Center Networking Infrastructure Design Specialist

The Cisco Data Center Networking Infrastructure Design Specialist has the knowledge of selecting and integrating Cisco Data Center products to design a highly scalable, efficient, and high performing Data Center networking solution based on Cisco Data Center Architecture. Individuals who achieve this certification understand how to utilize and employ the features and benefits of the Cisco Catalyst 6500 Series Switches, Cisco 4948 Switches, and Cisco Catalyst Blade Switches to create a converged, optimized Data Center network design.

Prerequisites: Valid CCDA certification.

Training	Duration (days)	Exam
New Data Center Network Infrastructure Design (DCNID)	5	642-971 DCNID

New Cisco Data Center Networking Infrastructure Support Specialist

The Cisco Advanced Data Center Networking Infrastructure Support Specialist has the knowledge of installing, configuring, and troubleshooting Cisco Data Center products to maintain a highly scalable, efficient, high performing Data Center Networking environment. Individuals who achieve this certification understand how to deploy and optimize the features and benefits of the Cisco Catalyst 6500 Series Switches, Cisco 4948 Switches, and Cisco Catalyst Blade Switches to provide fast and accurate resolution to network installation and customer service issues.

Prerequisites: Valid CCNP certification.

Training	Duration (days)	Exam
New Implementing Cisco Data Center Network Infrastructure 1 (DCNI-1)	5	642-973 DCNIS-1
New Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2)	4	642-974 DCNIS-2

Data Center: Storage Networking

Cisco Data Center Storage Networking Sales Specialist

The Cisco Data Center Storage Networking Sales Specialist has an overall understanding of storage networking architecture, and the features and benefits of the MDS 9000 product family. Cisco Data Center Storage Networking Sales Specialist professionals understand how the MDS 9000 products is used in a SAN environment and can identify the most effective MDS 9000 family product(s) to address specific customer requirements.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
Selling Cisco Data Center Networking Solutions (DCNS)	web based	646-976 DCNS

Cisco Data Center Storage Networking Design Specialist

The Cisco Data Center Storage Networking Design Specialist is capable to select and integrate Cisco storage products to design a highly scalable, efficient, high performing storage networking solution based on converged architecture. Cisco Data Center Storage Networking Design Specialist professionals understand how to utilize and employ the features and benefits of the Cisco MDS 9000 Series Multilayer Directors and Switches, Cisco MDS 9509 Director Switch, Cisco 9216 Fabric Switch, and Cisco MDS 9120 products to create a high availability storage network design.

Prerequisites: No Prerequisites Required.

Training	Duration (days)	Exam
Designing Cisco Storage Networking Solutions (DCSNS)	5	642-355 CSSDS

Cisco Data Center Storage Networking Support Specialist

The Cisco Data Center Storage Networking Support Specialist has knowledge of installing, configuring, and troubleshooting Cisco storage products to maintain a highly scalable, efficient, high performing storage networking environment. Cisco Data Center Storage Networking Support Specialist professionals understand how to deploy and optimize the features and benefits of the Cisco MDS 9000 Series Multilayer Directors and Switches, Cisco MDS 9509 Director Switch, Cisco 9216 Fabric Switch, and Cisco MDS 9120 products to provide fast and accurate resolution to network installation and customer service issues.

Prerequisites: No Prerequisites Required.

Training	Duration (days)	Exam
Implementing Cisco Storage Networking Solutions (ICSNS) Implementing Cisco Advanced Storage Network Solutions (IASNS)	5 5	642-356 CSSSS

Express Foundation

Cisco Express Foundation Sales Specialist

The Cisco Express Foundation Sales Specialist develops network preparation and planning skills. The Sales Specialist demonstrates a fundamental understanding of the value of IP networks for business and network architectures featuring Cisco routing and switching offerings, and the basic steps required to incorporate wireless and security technologies into the IP Network. The Cisco Express Foundation Sales Specialist has demonstrated the skills and knowledge needed to sell converged IP network solutions. This includes application of Cisco-verified best practices for these tasks and use of the various job aids and tools provided to facilitate successful network sales and ongoing account growth.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
Cisco Express Foundation for Account Managers (CXFA)	1	646-363 CXFA

Cisco Express Foundation Design Specialist

The Cisco Express Foundation Design Specialist develops network planning and design skills. The Design Specialist demonstrates fundamental understanding of the IP networks, routing and switching concepts, and the basic steps required to incorporate wireless and security technologies in the IP Network. The Cisco Express Foundation Design Specialist can effectively assess customer needs, as well as design and sell converged network solutions. This includes application of Cisco-verified best practices for these tasks and use of the various job aids and tools provided to facilitate successful network design and future growth potential.

Prerequisites: Valid CCDA certification.

Training	Duration (days)	Exam
Cisco Express Foundation for System & Field Engineers (CXF)	5	642-373 CXFS

Cisco Express Foundation Field Specialist

The Cisco Express Foundation Field Specialist develops network implementation and operational skills. The Field Specialist demonstrates fundamental understanding of the IP networks, routing and switching concepts, and the basic steps required to incorporate wireless and security technologies in the IP Network. The Cisco Express Foundation Field Specialist has demonstrated the skills and knowledge necessary to effectively install, configure, operate and support converged IP networks. This includes application of Cisco-verified best practices for these tasks and use of the various job aids and tools provided to facilitate successful network operations and ongoing optimization.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam
Cisco Express Foundation for System & Field Engineers (CXF)	5	642-383 CXFF

IP Communications

Cisco Advanced IP Communications Sales Specialist

The Cisco Advanced IP Communications Sales Specialist has a strong understanding of Cisco IP communications solutions. With an emphasis on voice solutions for the enterprise, individuals who achieve this certification have the knowledge and skills necessary to effectively assess, recommend, and guide implementation of IP Communications solutions tailored to address specific customer needs.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
IP Communications Advanced Sales (IPCAS)	web based	646-230 AUCAM
Cisco Lifecycle Services Express (LCSE)	2	650-393 LCSE

Cisco IP Communications Express Sales Specialist

The Cisco IP Communications Express Sales Specialist has a fundamental understanding of Cisco IP communications solutions, and have demonstrated the knowledge and skills necessary to assess, recommend, and guide the implementation of a basic IP Communications solution.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
IP Communications Express Sales (IPXSS)	1	646-223 UCXAM
Cisco Lifecycle Services Express (LCSE)	2	650-393 LCSE

Cisco IP Communications Express Specialist

The Cisco IP Communications Express Specialist has the comprehensive deployment and configuration skills for SMB IP telephony systems. Building on IIUC part 1, IIUC2 teaches installing Cisco Unified Communications Manager Express and Cisco Unity Express, with support for both SCCP and SIP endpoints, Unified Call Connector, Call Connector Mobility and PSTN Calling. In addition, performance monitoring and maintenance tasks are covered as well as configuring Unified Messaging Gateway.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam
New Implementing Cisco IOS Unified Communications Part 2 (IIUC2)	5	642-145 IIUC2
Cisco Lifecycle Services Express (LCSE)	2	650-393 LCSE

Cisco IP Contact Center Express Specialist

The Cisco IP Contact Center (IPCC) Express Specialist has the skills and knowledge required to plan, design, implement, and operate the Cisco Unified Contact Center Express (Formerly the Cisco IPCC Express Edition).

Prerequisites: No Prerequisites Required.

Training	Duration (days)	Exam
Unified Contact Center Express and Unified IP IVR Deployment (UCCXD)	5	642-164 UCCX

Cisco IP Telephony Design Specialist

Cisco IP Telephony Design Specialists can design a scalable, converged network using QOS, Cisco Call Manager clustering, H.323, MGCP, or SIP signalling protocols, and assess the scope of work required to integrate legacy TDM PBXs and voice mail systems into an existing data network.

Prerequisites: Valid CCDA certification.

Training	Duration (days)	Exam
Cisco Unified Communications Architecture and Design (UCAD)	5	642-415 UCAD
Implementing Cisco Quality of Service (QOS)	5	642-642 QOS
Cisco Lifecycle Services Advanced Unified Communications (LCSAUC)	web based	650-251 LCSAUC

Cisco Unified Rich Media Communications Specialist

The Cisco Rich Media Communications Specialist has the ability to successfully design, implement, and support integrated voice, video, and web collaboration in a converged network.

Prerequisites: Valid CCNA certification.

Training	Duration (days)	Exam
Designing and Implementing Cisco Unified Rich Media Communications (ICRMC)	web based	642-481 CRMC
Cisco Voice over IP (CVOICE)	5	642-436 CVOICE

Cisco Unity Design Specialist

Building upon a strong foundational knowledge of Microsoft Exchange 2000 or 2003, the Cisco Unity Design Specialist can install, configure, operate, and maintain a Cisco Unity 4.0 system in both stand-alone voice mail and unified messaging environments, and possesses the knowledge and expertise necessary to create a variety of sustainable Cisco Unity design solutions tailored to specific customer requirements.

Prerequisites: Valid CCDA certification.

Training	Duration (days)	Exam
Cisco Unity Design and Networking (CUDN) Implementing Cisco Unified Messaging (IUM)	4 5	642-072 CUDN

Cisco Unity Support Specialist

Building upon a strong foundational knowledge of Microsoft Exchange 2000 or 2003, the Cisco Unity Support Specialist can install, configure, operate, and maintain a Cisco Unity 4.0 system in both stand-alone voice mail and unified messaging environments.

Prerequisites: Valid MCSE: Messaging on Windows Server 2000 or MCSE: Messaging on Windows Server 2003.

Training	Duration (days)	Exam
Implementing Cisco Unified Messaging (IUM)	5	642-105 IUM

New Cisco Unified Presence Specialist

The Cisco Unified Presence Specialist is primarily responsible to design, install and configure Cisco Unified Presence Release 6.0. The individual also possess a solid understanding of integration options with other Cisco Unified Communications products as well as third-party presence solutions, including Microsoft Live Communications Server, Microsoft Office Communications Server and IBM Lotus Sametime. The Cisco Unified Presence Specialist has the ability to deploy and maintain Cisco Unified Presence Release 6.0.

Prerequisites: No Prerequisites Required.

Training	Duration (days)	Exam
New Cisco Unified Presence Design and Implementation (PRSDI)	3	642-181 PRSDI

VPN and Security

New Cisco ASA Specialist

The ASA Specialist has in-depth expertise with implementing security technologies using the Adaptive Security Appliance (ASA) technologies, especially firewall and VPN functionality. Other topics include ACL, AAA, advanced protocol handling, remote access VPN, secure socket layer VPN, site-to-site VPNs, failover, and security appliance management. Cisco ASA Specialists possess the ability to describe, configure, verify and manage the ASA products and the Adaptive Security Device Manager (ASDM).

Prerequisites: Valid CCNA Security certification.

Training	Duration (days)	Exam
New Securing Networks with ASA Fundamentals (SNAF)	5	642-524 SNAF
New Securing Networks with ASA Advanced (SNAA)	5	642-515 SNAA

Cisco IOS Security Specialist

The Cisco IOS Security Specialist has the knowledge and skills required to secure networks using Cisco IOS Security features such as IOS Network Foundation Protections (NFP), IOS One-Step Lockdown, IOS Classic and Zone-Based Firewalls, IOS IPSec and SSL VPNs and IOS IPS. Having both IOS Command Line Interface (CLI) and Router and Security Device Manager (SDM) configuration skills are required.

Prerequisites: Valid CCNA Security certification.

Training	Duration (days)	Exam
Securing Networks with Cisco Routers and Switches (SNRS)	5	642-504 SNRS

Cisco IPS Specialist

The Cisco IPS Specialist can operate and monitor Cisco IOS Software and Intrusion Prevention Systems (IPS) technologies to prevent, understand, and respond to intrusion attempts.

Prerequisites: Valid CCNA Security certification.

Training	Duration (days)	Exam
Implementing Cisco Intrusion Prevention System (IPS)	5	642-533 IPS

Cisco Network Admission Control Specialist

The Cisco Network Admission Control Specialist has the skills necessary to install, configure and operate the Cisco NAC Appliance. By applying their knowledge of the Cisco NAC solution, the Cisco Network Admission Control Specialist demonstrates the skills and knowledge needed to effectively identify, isolate and clean infected or vulnerable devices that attempt to access the network.

Prerequisites: Valid CCNA Security certification.

Training	Duration (days)	Exam
Implementing Cisco NAC Appliance (CANAC)	3	642-591 CANAC

Cisco Security Sales Specialist

The Security Sales Specialist has fundamental understanding of the Cisco Self Defending Network (SDN) Strategy. The Cisco Security Sales Specialist possesses the skills and knowledge necessary to assess customer needs and to effectively describe and sell components of the Cisco SDN to protect customer assets, increase productivity, and reduce costs.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
Advanced Security for Account Managers (ASAM)	web based	646-562 ASAM
Cisco Lifecycle Services Express (LCSE)	2	650-393 LCSE

Cisco Security Solutions and Design Specialist

The Cisco Security Solutions and Design Specialist can assess customer needs, sell, and design Cisco Self Defending Networks that protect vital assets, reduce costs, and improve productivity. Cisco Security Solutions and Design Specialists understand the key components of the Cisco Self-Defending Network strategy, including Cisco Adaptive Security Appliance (ASA), Intrusion Prevention Systems (IPS), Network Admission Control (NAC) and Cisco Security Monitoring Analysis and Response System (CS MARS).

Prerequisites: Valid CCDA certification.

Training	Duration (days)	Exam
Security Solutions for Systems Engineers (SSSE)	5	642-565 SSSE
Cisco Lifecycle Services Advanced Security (LCSAS)	web based	650-575 LCSAS

Wireless LAN

Cisco Advanced Wireless LAN Sales Specialist

The Advanced Wireless LAN Sales Specialist has a strong understanding of wireless LAN features and benefits and the ability to assess customer needs, effectively position and sell Cisco wireless solutions and services.

Prerequisites: Cisco Sales Expert: valid 646-204 CSE.

Training	Duration (days)	Exam
Advanced Wireless LAN Sales/AM (AWLANAM)	1	646-588 AWLANAM
Cisco Lifecycle Services Express (LCSE)	2	650-393 LCSE

Cisco Advanced Wireless LAN Design Specialist

The Cisco Advanced Wireless LAN Design Specialist has the ability to successfully design solutions using the advanced feature set of Cisco wireless products and based on a validated understanding of radio frequency and antenna theory, 802.11a/b/g standards, site survey and configuration of controllers and APs. Solutions include voice over WLAN, outdoor mesh and secure wireless.

Prerequisites: Valid CCDA Certification.

Training	Duration (days)	Exam
CWLF/CWLAT Bootcamp	5	642-586 AWLANSE
Cisco Lifecycle Services Advanced Wireless (LCSAWLAN)	web based	650-621 LCSAWLAN

Cisco Advanced Wireless LAN Field Specialist

The Cisco Advanced Wireless LAN Field Specialist has the ability to successfully install, configure and support solutions using the advanced feature set of Cisco wireless products and based on a validated understanding of radio frequency and antenna theory, 802.11a/b/g standards and support of controllers and APs.

Prerequisites: Valid CCNA Certification.

Training	Duration (days)	Exam
CWLF/CWLAT Bootcamp	5	642-587 AWLANFE
Cisco Lifecycle Services Advanced Wireless (LCSAWLAN)	web based	650-621 LCSAWLAN

About Recertification

Recertification is an important indicator that the certification holder has kept up with current trends in networking technology. Valid certifications may be renewed indefinitely, but without timely renewal, certifications expire or become inactive. To keep certifications current, individuals should recertify by advancing to the next level of certification or passing the designated recertification exam(s).

Recertification Renewal Timeframes

CCENT, CCNA, CCNA Voice, CCNA Security, CCNA Wireless, CCDA, CCNP, CCDP, CCSP, CCVP and CCIP certifications are valid for three years. All CCIE certifications and Specialist certifications are valid for two years. Cisco Sales Expert (CSE) designations are valid for two years and must be recertified regardless of other certifications the individual has achieved, is currently pursuing or is in the process of recertifying.

How to Recertify

Renewal requires certification holders to register for and pass the appropriate Cisco recertification exam(s). In order to recertify, exam requirements must be met prior to the certification expiration date. Individuals with an expired certification(s) must repeat the entire certification exam process in order to regain their certification(s).

Next steps

Prepare with the help of Fast Lane, global Cisco Learning Solutions Partner. Find out which solution would be most efficient by visiting the website (www.flane.nl or www.flane.be) or contacting Fast Lane either through phone (+31 (0)30 658 2131 or +32 (0)2 609 0093) or email (info@flane.nl or info@flane.be)
After attending your course(s), register and pass the certification exam(s) with Pearson VUE test delivery partner. Register online via www.pearsonvue.com or call the toll free phone number on business days from 9.00 AM till 6.00 PM. (closed on local holidays)

The Netherlands: 0800 023 53 23
Belgium (Dutch): 0800 74 174
Belgium (French): 0800 74 175

Visit www.pearsonvue.com to check the nearest testing center in your country.

Recertification Options

Certification Level	Recertification Options
CCENT, CCNA, CCDA certifications	Complete one of the following recertification options: • Pass the current certification exam. For CCENT and CCNA, ICND 2 will also recertify. • Pass a current Specialist exam bearing a 642 prefix (excluding Sales Specialist exams). • Pass any Professional level exam bearing a 642 prefix. • Advancing to the next level or recertifying at the Professional Level automatically renews all related Associate level certifications. • Pass any current CCIE or CCDE written exam.
CCNA Voice, CCNA Security, CCNA Wireless certifications	Complete one of the following recertification options: • Pass the current certification exam. • Pass a current Specialist exam bearing a 642 prefix (excluding Sales Specialist exams). • Pass any Professional level exam bearing a 642 prefix. • Advancing to the next level or recertifying at the Professional level automatically renews all related Associate level certifications. • Pass any current CCIE or CCDE written exam.
CCNP, CCDP, CCIP, CCSP & CCVP certifications	Complete one of the following recertification options: • Pass any 642 exam that is part of the professional level curriculum after 01/01/06. • Pass any current CCIE or CCDE written exam.
Specialist certifications	Complete one of the following recertification options: • Pass the current version of the Specialist certification exam(s) or the designated recertification exam. • Pass any current CCIE or CCDE written exam.
Expert certification	Complete one CCIE written exam or the CCDE qualification exam within the 24 month period immediately preceding the current recertification deadline.
Cisco Sales Expert certification	Complete the Cisco Sales Expert exam within the 24 month period preceding the recertification deadline.

Other Fast Lane Courses

Fast Lane has been authorized worldwide Cisco Learning Solutions Partner for many years and is the first and only worldwide, NetApp Authorized Learning Partner.

Next to a wide variety of Cisco courses, Fast Lane also offers a comprehensive public schedule of NetApp courses. On this page you will find an overview of these courses. Visit our website for more details or contact us to discuss your specific training needs.

NetApp Storage Basic & Intermediate Training
Data ONTAP Fundamentals (DOTF)
Data ONTAP CIFS Administration (CIFS)
Data ONTAP NFS Administration (NFS)
New NetApp Protection Software Administrator (NPSA)
Data ONTAP SAN Administration Basics (SAN)
Fundamentals of Performance Analysis (FPA)
Operations Manager 3.7, Protection Manager, and Provisioning Manager (OPSMGR)
DataFort Storage Security Administration (DSSA)
NearStore Virtual Tape Library Administration (VTL)
Oracle on NetApp Storage Systems (NAOR)
VMware ESX on NetApp Storage Systems (NAVMW)

Microsoft on NetApp Storage Systems
Microsoft Clustering with SnapDrive (MSCLU)
Microsoft SQL Server 2005 on NetApp Storage Systems (MSSQL)
Microsoft® Exchange on NetApp Storage Systems (MSEXC)

Data ONTAP GX
Data ONTAP GX Fundamentals (DOTGX)

NetApp Bootcamp Training
NCDA Bootcamp (NCDABC)

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