



Cisco Networking Academy France

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Cisco Systems



Les Réseaux et Internet

Cisco.fr

TRAVAILLER



JOUER



VIVRE



APPRENDRE



Cisco Systems : Le Leader Mondial des Solutions Réseaux pour Internet

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ACCROÎTRE LA
PRODUCTIVITE

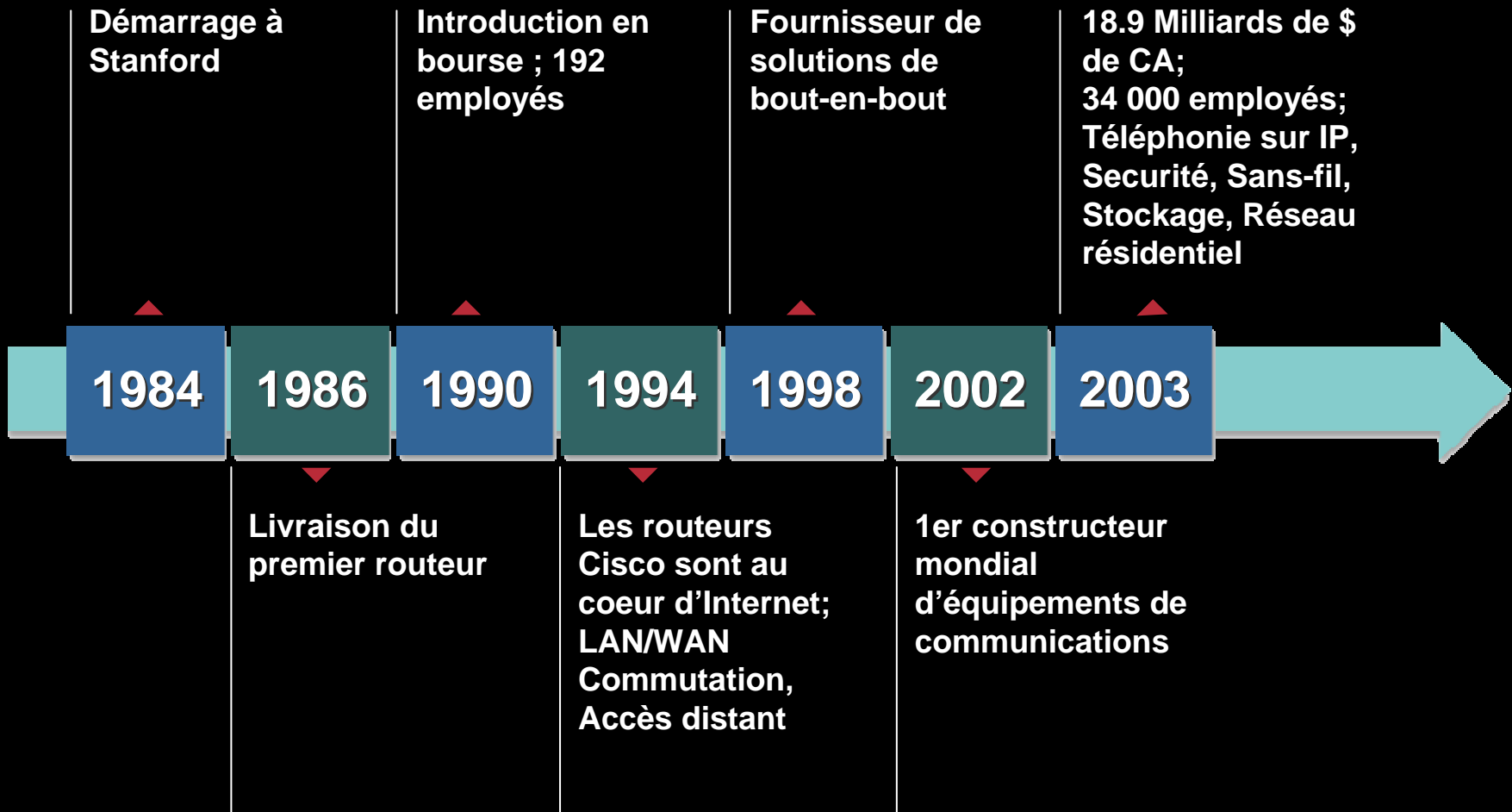
AMELIORER LA
SATISFACTION CLIENT



CONSERVER SON AVANTAGE
CONCURENTIEL

Historique de Cisco Systems

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Cisco en France

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- La France fut **la 1ère implantation de Cisco en Europe** (Les Ulis, en Décembre 1989)
- Siège social aujourd'hui à **Issy-les-Moulineaux : 500 personnes**

- Bureau à Sophia Antipolis : 30 personnes
- Implantations à Lyon, Rennes, Toulouse, Strasbourg et Marseille
- Programme **Cisco Networking Academy** : programme de formation aux technologies réseaux pour les écoles

Plus de 200 académies en France aujourd'hui

Nos priorités

Cisco.fr

- **Nos clients**
- **L'innovation technologique**
- **Les partenariats**
- **L'utilisation des solutions Internet en interne**
- **La culture d'entreprise**



**“LE SUCCES ET LA SATISFACTION
DE NOS CLIENTS SONT AU COEUR
DE NOTRE STRATEGIE ET SONT LES
PRINCIPAUX FACTEURS DE NOTRE
REUSSITE ACTUELLE ET A VENIR.”**



JOHN CHAMBERS, PRESIDENT ET CEO

Une offre adaptée à chaque segment de marché

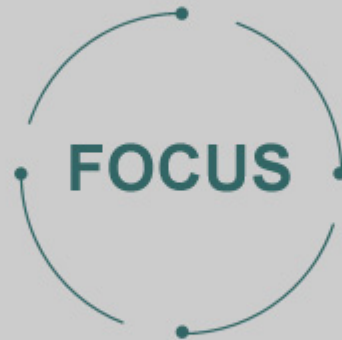
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GRANDES ENTREPRISES



OPERATEURS TELECOMS









GRAND PUBLIC



PME/PMI

Une offre adaptée à chaque métier

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		SERVICES	TRANSPORT	
DISTRIBUTION	BANQUE / ASSURANCE			INDUSTRIE
SECTEUR PUBLIC		EDUCATION		 SANTE

Cisco : Un Innovateur technologique

Cisco.fr

- **3.2 Milliards d'investissements en R&D**
- **Chef de file pour le développement des standards technologiques pour les réseaux et internet**
- **Logiciel Cisco IOS® : le système d'exploitation réseau le plus déployé au monde**
- **12 400 ingénieurs et plus de 1110 laboratoires dans le monde**
- **Pénétration rapide de nouveaux marchés et recrutement de nouveaux talents grâce aux acquisitions**
- **Plus de 1100 brevets déposés**

R&D



ACQUISITIONS



BREVETS



Cisco : Un Innovateur technologique

Cisco.fr

COMMUTATION

ROUTAGE

LOGICIELS
ET SERVICES

COEUR DE METIER

Une entreprise citoyenne

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**CISCO
FOUNDATION**



**PROGRAMME
CISCO
NETWORKING
ACADEMY**



**COMMUNITY
INVESTMENT &
FELLOWSHIP**

**PARTENARIAT
FONDATION
NOBEL**



**CORPORATE
PHILANTHROPY**

**SOUTIEN DE
ENFANCE &
PARTAGE**



Cisco Networking Academy



De quoi s'agit-il?

- Un **programme de formation aux technologies réseaux** qui permet de se préparer aux métiers du réseau
- Ce **n'est pas un cours** sur les produits Cisco
- Un réseau d'**établissements partenaires** (les «**Cisco Networking Academies**») pour assurer cette formation
- Un programme à **but non lucratif**



Les objectifs du Programme

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- **Réduire la pénurie** des compétences réseaux
- Favoriser le **développement de nos partenaires**
- Aider à **l'insertion et la reconversion** professionnelle
- Contribuer au **développement des Nouvelles technologies** (Sécurité et Mobilité)



Les 3 piliers du Programme

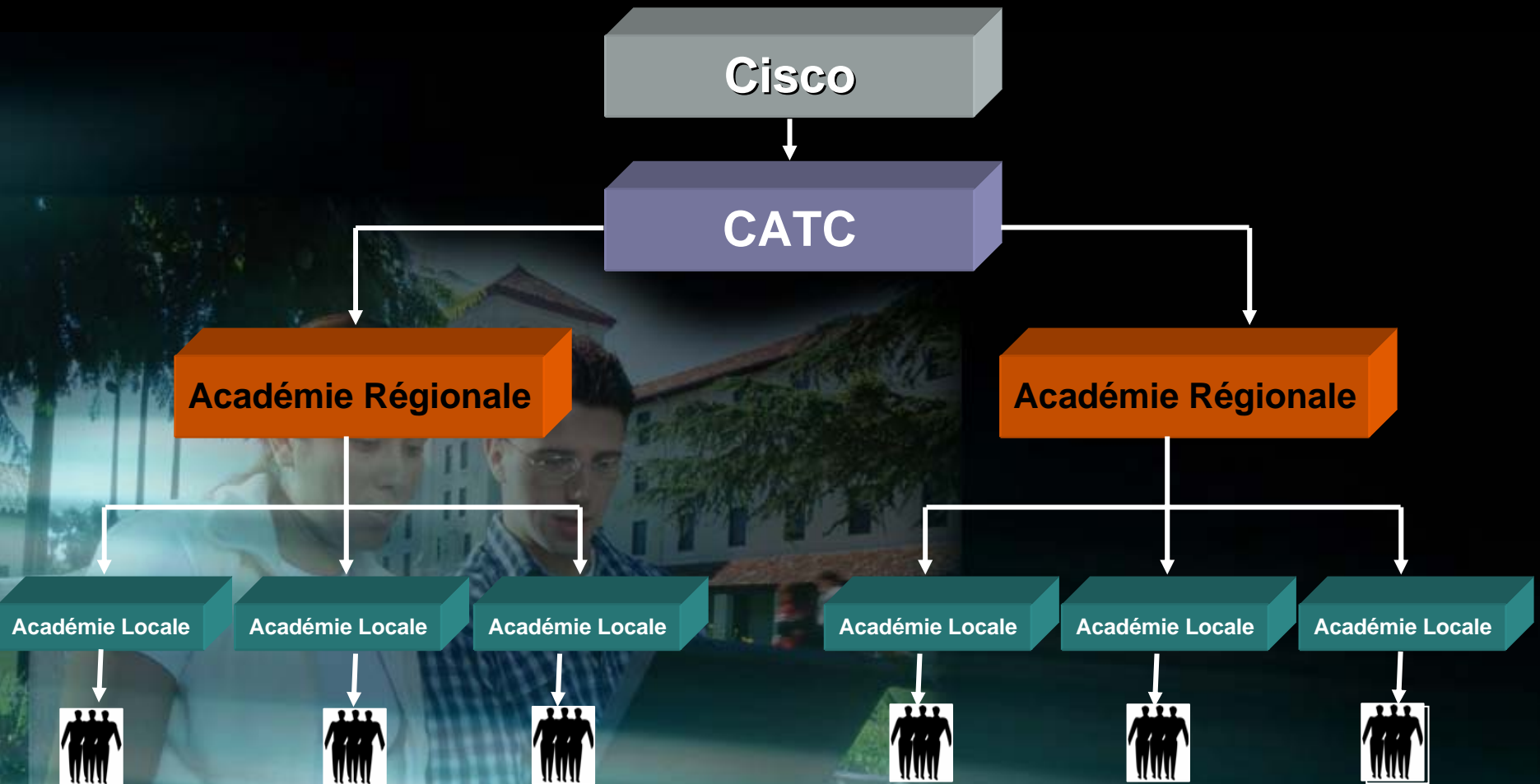
Cisco.fr

- Un contenu **en ligne** composé de 4 modules de formation (70 heures chacun).
- Des **travaux pratiques**
- Un **serveur de communauté** permettant d'administrer le programme et obtenir des supports pédagogiques nationaux et internationaux.



L'organisation du Programme

Cisco.fr



Le CATC (Cisco Academy Training Center), coordonne le programme, forme les instructeurs des académies régionales.

L'Académie Régionale fédère 10 Académies Locales et forme les instructeurs des Académies Locales. Elle peut également former ses étudiants.

L'Académie Locale dispense les cours aux étudiants.

Académies Régionales Janv.05

Cisco.fr

Liste des Académies Régionales



Région IDF :

INT (Evry), ISCIO (Orsay), CCI (Paris), Lycée (Melun), IUT (Vitry), Lycée (Combs La Ville), Arezeine (Ivry), groupe Pigiers (Paris), Université américaine de Paris, AFPA (CATC), Supinfo Paris

Nord :

IIE, AFPI Dunkerquoise, CESI (Arras), CCI (Nevers), CCI (Le Havre)

Est :

Université Henri Poincaré (Nancy), CERTA (Dijon)

Ouest :

IFC St Herblain

Sud Ouest :

Université de Pau (IUT Mont-de-Marsan), Université de Bordeaux, Université de Toulouse.

Sud Est :

Université de Marseille, Université de Valence

Le Programme en France

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Cisco Networking Academy

➤ 1 CATC

➤ 27 Regional Academies

➤ 203 Local Academies

Liste des établissements partenaires

AFPI/ CFAI de l'UIMM (ex: Dunkerque, Lyon, AFORP Paris, Aquitaine...)

IUT Génie Télécom Réseaux (ex: Aix-Marseille 2, Nancy, Valence...)

IUP Télécom (ex: Toulouse, Avignon, Blois...)

Ecoles d'ingénieurs (ex: Supinfo, INT, EFREI, CESI, 3iL, Centrale Lyon – Paris-Lille...)

AFPA (ex: Champs/Marne, Angers, Meudon...)

BTS option administration de réseaux (ex: Orléans-Tours-Nancy...)

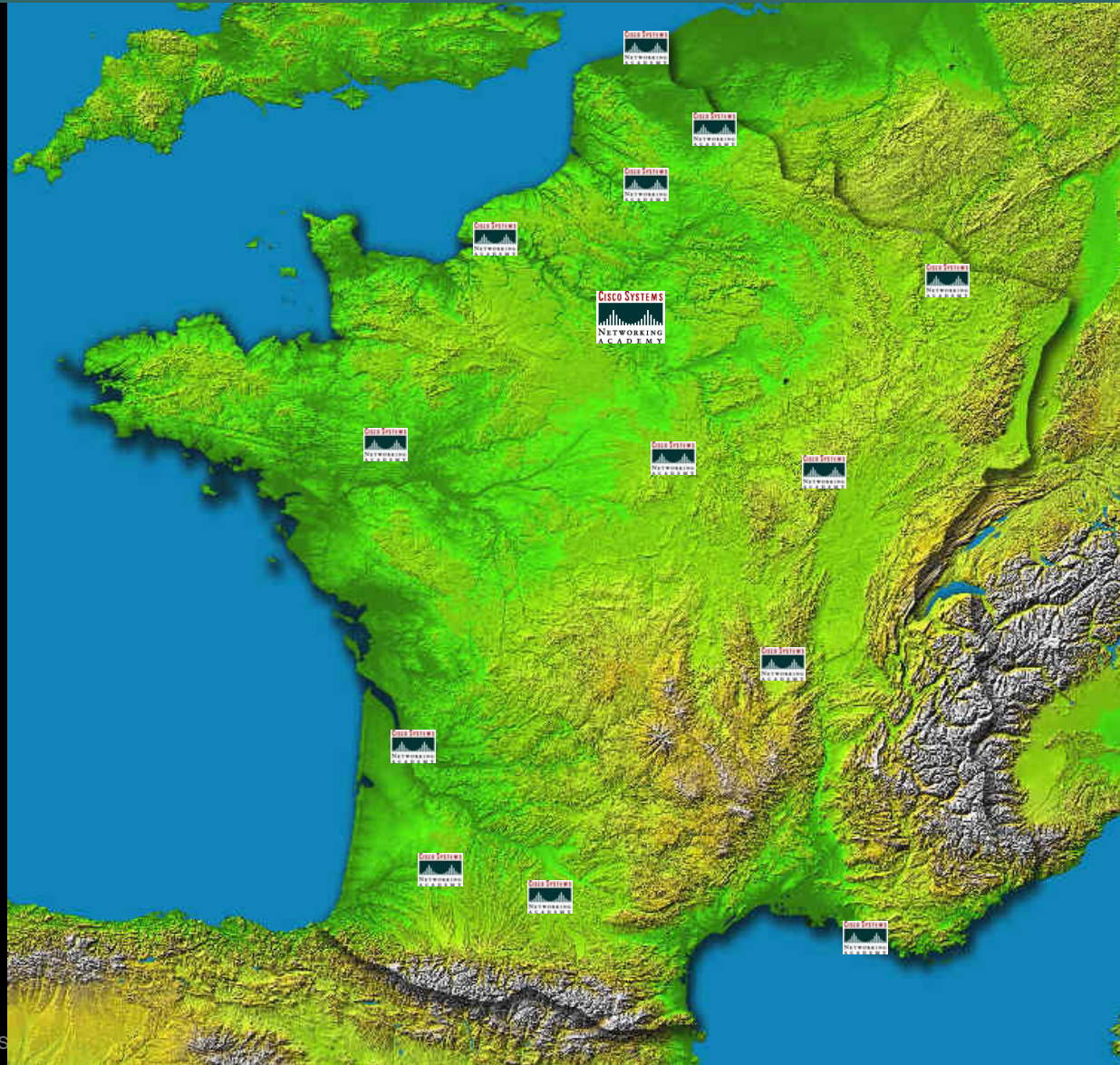
Bac Pro MRIM (ex: Marseille, Combs La Ville, Lyon...)

GRETA (ex: Le Havre, Limoges, Melun...)

CCI /réseau MIRIAD (ex: CCI Formation Le Havre, Paris, Nevers...)

DOM/TOM

- La Réunion
- La Martinique
- La Guyane
- Tahiti
- La Nouvelle Calédonie



Quelques chiffres...

France

10 183 participants
2 230 graduates
437 formateurs

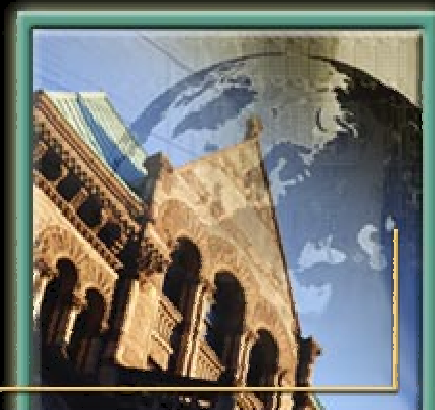
201 Académies

+ 237 000 examens
+ 10 000 examens par mois

International 163 pays

440 785 participants
399 479 graduates
22 611 formateurs

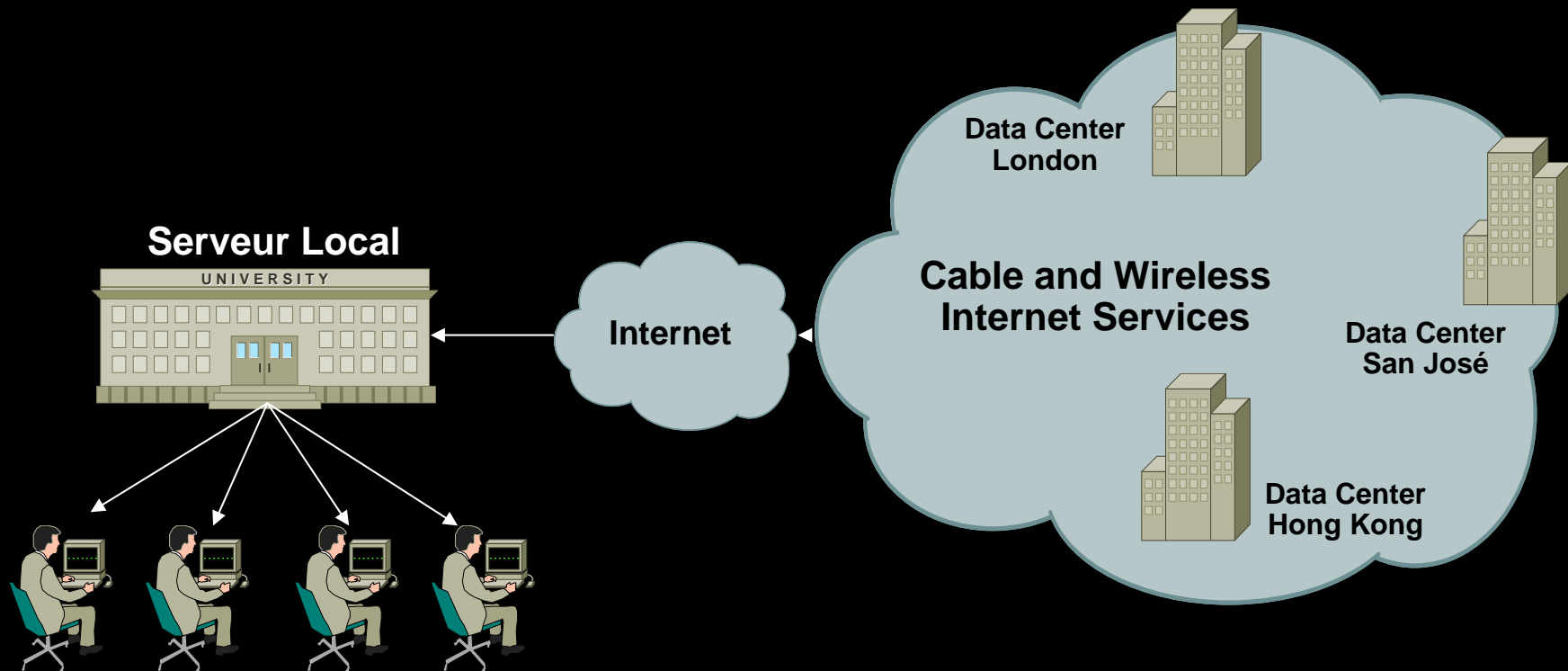
10 064 Académies
3 805 6290 examens



Les Outils



Le serveur de communauté



Le serveur de communauté

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http://cisco.netacad.net

The screenshot shows the 'Instructor Home' page of the Cisco Networking Academy. The page is divided into several sections:

- Navigation:** A sidebar on the left contains links for 'ACADEMY CONNECTION', 'ADMINISTRATOR HOME', 'INSTRUCTOR HOME' (highlighted), and 'ALUMNI HOME'. The top right has links for 'My Profile', 'Contacts and Feedbacks', 'Help', and 'Logout'.
- Headlines:** A section titled 'Networking Academy Program Headlines' with a link to 'View Headlines Listing'. It lists two items: 'Avoid Using the Academy Connection' by 'The Academy Connection Team' (dated 01/08/2003 03:00 PM PST) and 'The Academy Connection Team' (dated 01/07/2003 04:00 AM MST).
- My Academy Program Headlines:** A section with a link to 'Academy Connection Video Preview' and an item by 'Richa Lodha' (dated 01/03/2003 05:30 PM).
- Teach:** A section titled 'Manage Student Classes' with a link to 'View Information'. It lists several course IDs: 'essa231002', '1MRIM1G1', '1MRIM1G2', '1MRIM2', 'essa1', '1MRIM2', '1MR1G1', and 'MR1G2'. There is also a 'Manage Academy' section with links for 'Add Students and Users', 'Manage Academy User List', 'Add New Student Class', and 'View Historical Student Class List'.
- VIEW REPORTS:** A button labeled 'VIEW REPORTS'.
- Learn:** A section with a link to 'Register For Training' and a 'My Classes' section with a link to 'View Historical Class List'. Below this, it states 'You are not currently enrolled in any classes.'
- Resources:** A sidebar on the right lists links: 'Tools', 'Community FTP Center', 'Course Materials', 'Library', 'Glossary', and 'Community'.
- Success Stories:** A section with a photo of a woman and text: 'Networking Academy Program in Ethiopia Bridges Both Gender and Digital Divides. [More](#)'. Below it is a link to 'Submit your own success story'.
- Academy Market Place:** A section with text: 'Complementing the Cisco Networking Academy Program, the Academy Marketplace offers products and services to Academies worldwide at cost or at a discounted price. [More](#)'.
- Course Catalog:** A section with text: 'Learn more about the Networking Academy courses. [More](#)'.

http://www.cisco.com/en/US/learning/netacad/index.html

8.1 Ethernet Switching

8.1.2 Layer 2 switching

Generally, a bridge has only two ports and divides a collision domain into two parts. All decisions made by a bridge are based on MAC or Layer 2 addressing and do not affect the logical or Layer 3 addressing. Thus, a bridge will divide a collision domain but has no effect on a logical or broadcast domain. No matter how many bridges are in a network, unless there is a device such as a router that works on Layer 3 addressing, the entire network will share the same logical broadcast address space. A bridge will create more collision domains but will not add broadcast domains.

A switch is essentially a very fast multi-port bridge, which can contain hundreds of ports. Rather than creating two collision domains, each port creates its own collision domain. So, if a network has twenty nodes, with each node plugged into its own switch port, then twenty collision domains exist, plus the uplink port, making twenty one collision domains with one switch. A switch dynamically builds and maintains a Content-Addressable Memory (CAM) table, holding all of the necessary MAC information for each port.

Web Links

Bridging and Switching Basics

http://www.ctr.columbia.edu/~dimitri/teaching/E6761/Lecture7/switching_bridging.pdf

Module Menu | 01 02 03 04 05 06 07 08 09 10 11 | CS

- Un **outil d'e-learning** conçu avec l'aide de professeurs de facultés de l'université de Phoenix, Arizona

Le système d'évaluation

Formation CISCO																						
Student	Semester 1 Chapter 1	Semester 1 Chapter 2	Semester 1 Chapter 3	Semester 1 Chapter 4	Semester 1 Chapter 5	Semester 1 Chapter 6	Semester 1 Chapter 7	Semester 1 Chapter 8	Semester 1 Chapter 9	Semester 1 Chapter 10	Semester 1 Chapter 11	Semester 1 Chapter 12 -14	Semester 1 Chapter 15	Semester 1 Final	Course Feedback	Grades	Pass Attendance	Pass Skills	Certificate	Graduate	Fail	Incomplete
1010	100.0	79.0	95.0	83.0	96.0	100.0	81.0	91.0	88.0	72.0	92.0	92.0	86.0	83.0	✓		✓	✓		✓		
1111	100.0	95.0	100.0	87.0	100.0	100.0	95.0	91.0	84.0	100.0	100.0	76.0	86.0	97.0	✓		✓	✓		✓		
1116	100.0	100.0	82.0	74.0	83.0	76.0	76.0	36.0	72.0	76.0	65.0	-	-	79.0	✓		✓	✓		✓		
3121	83.0	74.0	91.0	74.0	96.0	90.0	86.0	73.0	68.0	92.0	73.0	68.0	76.0	90.0	✓		✓	✓		✓		
3791	87.0	84.0	95.0	87.0	92.0	100.0	90.0	77.0	88.0	80.0	100.0	96.0	95.0	94.0	✓		✓	✓		✓		
4466	96.0	100.0	95.0	91.0	96.0	100.0	76.0	68.0	56.0	96.0	100.0	88.0	76.0	94.0	✓		✓	✓		✓		
4668	96.0	89.0	77.0	78.0	83.0	100.0	76.0	86.0	72.0	96.0	92.0	92.0	86.0	85.0	✓		✓	✓		✓		
5457	96.0	95.0	100.0	78.0	92.0	100.0	90.0	77.0	72.0	96.0	88.0	72.0	86.0	92.0	✓		✓	✓		✓		
5561	96.0	89.0	91.0	87.0	100.0	86.0	86.0	82.0	92.0	80.0	92.0	76.0	90.0	97.0	✓		✓	✓		✓		
564	100.0	95.0	77.0	83.0	79.0	100.0	86.0	50.0	88.0	96.0	88.0	76.0	62.0	83.0	✓		✓	✓		✓		
654	100.0	95.0	100.0	74.0	88.0	100.0	95.0	68.0	64.0	96.0	100.0	88.0	67.0	96.0	✓		✓	✓		✓		
6622	91.0	89.0	95.0	87.0	92.0	90.0	95.0	86.0	80.0	92.0	92.0	84.0	90.0	94.0	✓		✓	✓		✓		
6647	96.0	95.0	95.0	74.0	92.0	95.0	86.0	86.0	88.0	96.0	100.0	92.0	90.0	90.0	✓		✓	✓		✓		

Les Certificats de fin de module

The screenshot shows the Cisco Systems Networking Academy interface. At the top left is the Cisco Systems Networking Academy logo. At the top right are navigation links: My Profile | Contacts and Feedbacks | Help | Logout. A left sidebar menu contains: ACADEMY CONNECTION, ADMINISTRATOR HOME, INSTRUCTOR HOME (selected), ALUMNI HOME, Teach, 3IL2002, Manage Class, Edit Class Information, Student Class Roster, Assessment Home, Gradebook, View Class Information, View Official Course Material, and Additional Course Materials. The main content area is titled 'Distribute Certificates and Letters' and has a sub-header 'Specify Students and Distribution' (Step 1 of 2). Below this, a message states: 'The Print Certificates and Letters functionality on this page has been disabled temporarily due to technical difficulties. To print certificates or letters, please try again later.' There are links for 'Select All' and 'Deselect All'. Below the message is a table titled 'Choose Eligible Students' with columns for 'Student' and 'Eligible to receive' (Certificates, Letters). The table lists four students with their names, student numbers, and weighted percentages.

Student	Eligible to receive	
	Certificates	Letters
First/Given Name: <input type="text"/> Last/Family Name: <input type="text"/> Student Number: 49 Weighted Percentage: 90.8		<input type="checkbox"/>
First/Given Name: <input type="text"/> Last/Family Name: <input type="text"/> Student Number: 51 Weighted Percentage: 95.0		<input type="checkbox"/>
First/Given Name: <input type="text"/> Last/Family Name: <input type="text"/> Student Number: 52 Weighted Percentage: 89.6		<input type="checkbox"/>
First/Given Name: <input type="text"/> Last/Family Name: <input type="text"/> Student Number: 53 Weighted Percentage: 89.6		<input type="checkbox"/>

CCNA



Les cours CCNA

Cisco.fr

- **4 modules** (70 heures chacun)
- **37 Chapitres**
- **238 Travaux pratiques et activités**
- **140 animations**



Préconisation : 280 heures

CCNA 1-4



PROGRAMME CISCO NETWORKING ACADEMY PROGRAM

Modules

- 1: Présentation des réseaux
 - 2: Notions de base sur les réseaux
 - 3: Médias réseau
 - 4: Test des câbles
 - 5: Câblage des réseaux LAN et WAN
 - 6: Notions de base sur Ethernet
 - 7: Technologies Ethernet
 - 8: Commutation Ethernet
 - 9: Pile de protocoles TCP/IP et adressage IP
 - 10: Notions de base sur le routage et les sous-réseaux
 - 11: Couche transport et couche application du protocole TCP/IP
- Case Study:
Supplément sur le câblage structuré

Modules

- 1: Réseaux WAN et routeurs
 - 2: Introduction aux routeurs
 - 3: Configuration d'un routeur
 - 4: Informations sur les autres équipements
 - 5: Gestion de la plate-forme logicielle Cisco IOS
 - 6: Routage et protocoles de routage
 - 7: Protocoles de routage à vecteur de distance
 - 8: Messages de contrôle et d'erreur TCP/IP Suite
 - 9: Dépannage de base d'un routeur
 - 10: TCP/IP (niveau intermédiaire)
 - 11: Listes de contrôle d'accès (ACL)
- Case Study:
Le routage

les réseaux v3.1

est le premier des quatre
Certified Network Associate
étudiants qui suivent le
sur les protocoles et la
(local-area network) et WAN
(System Interconnection), le
la programmation des
mes relatives aux réseaux.

Modules

- 1: Introduction au routage sans classe (routage CIDR)
 - 2: OSPF Zone unique
 - 3: Protocole EIGRP
 - 4: Concepts de commutation
 - 5: Commutateurs
 - 6: Configuration d'un commutateur
 - 7: Protocole Spanning Tree (STP)
 - 8: LAN virtuels (VLAN)
 - 9: Protocole VTP (VLAN Trunking Protocol)
- Case Study:
Notions de base sur la commutation et routage intermédiaire

Modules

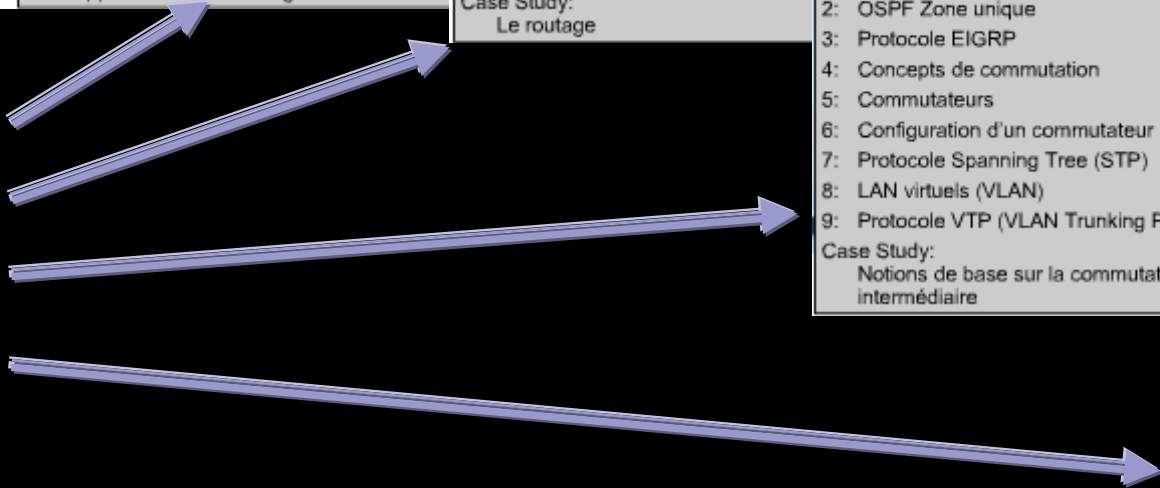
- 1: Évolutivité des adresses IP
 - 2: Technologies WAN
 - 3: PPP
 - 4: RNIS et DDR
 - 5: Frame Relay
 - 6: Introduction à l'administration réseau
- Case Study:
Réseaux WAN

Module 1

Module 2

Module 3

Module 4



CCNA

Experience laboratoire

Estimation <1 700€

- 3 CISCO831K9
- 1 Switch 2950 12 ports



Standard laboratoire

Estimation <8 000€

- 6 CISCO1721
- 6 S17C-12211T
- 6 CAB-SS-V35MT
- 6 CAB-SS-V35FC
- 6 WIC-2A/S



Premium laboratoire

Estimation <13 000€

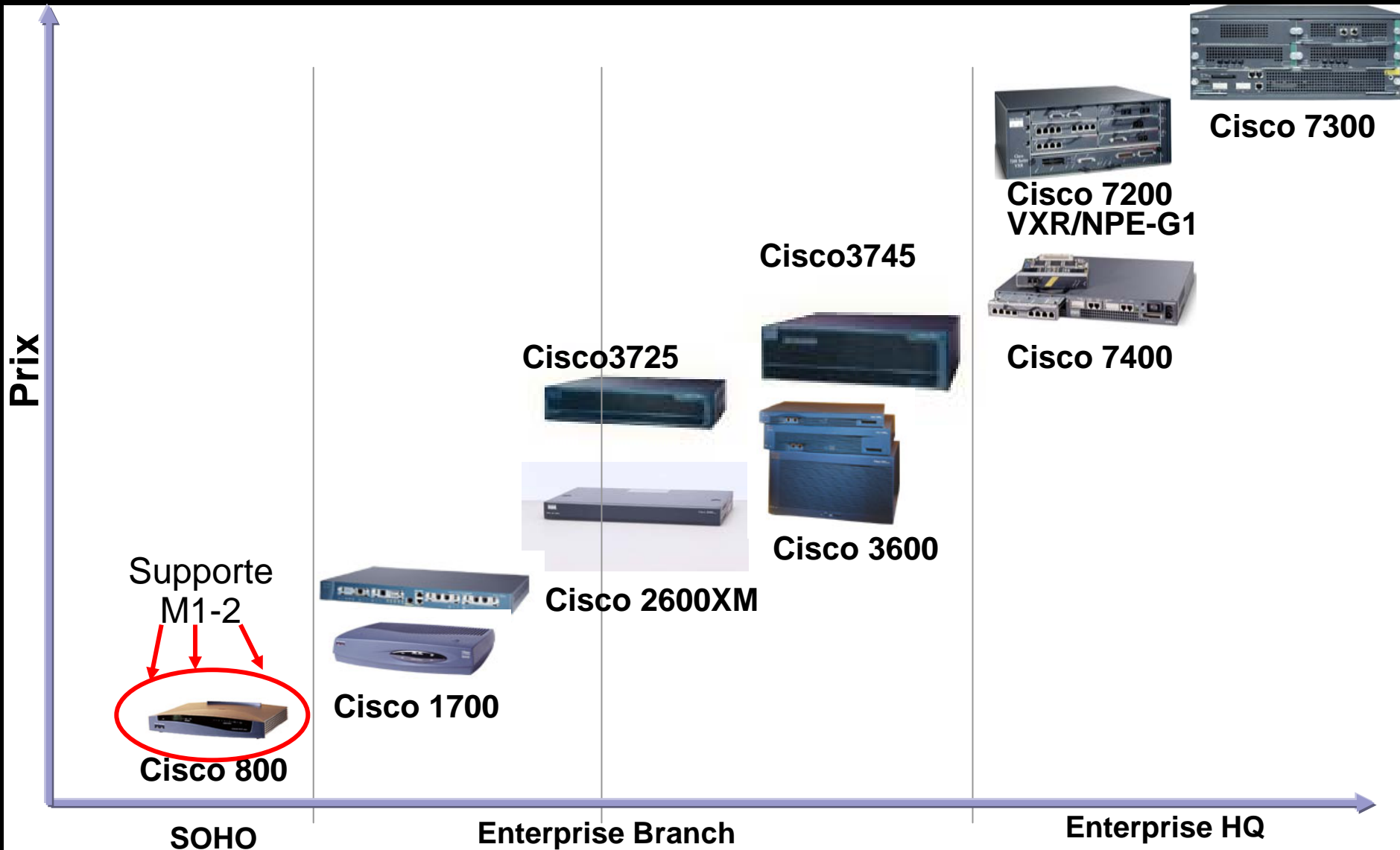
- 4 CISCO2620XM
- 2 CISCO2621XM
- 5 S26C-12212
- 1 S26B-12213
- 6 CAB-SS-V35MT
- 6 CAB-SS-V35FC
- 6 WIC-2A/S



3 WS-C2950-24

3 WS-C2950-24

Cisco 800



Pourquoi le 2600XM à la place du 2600?

Cisco.fr

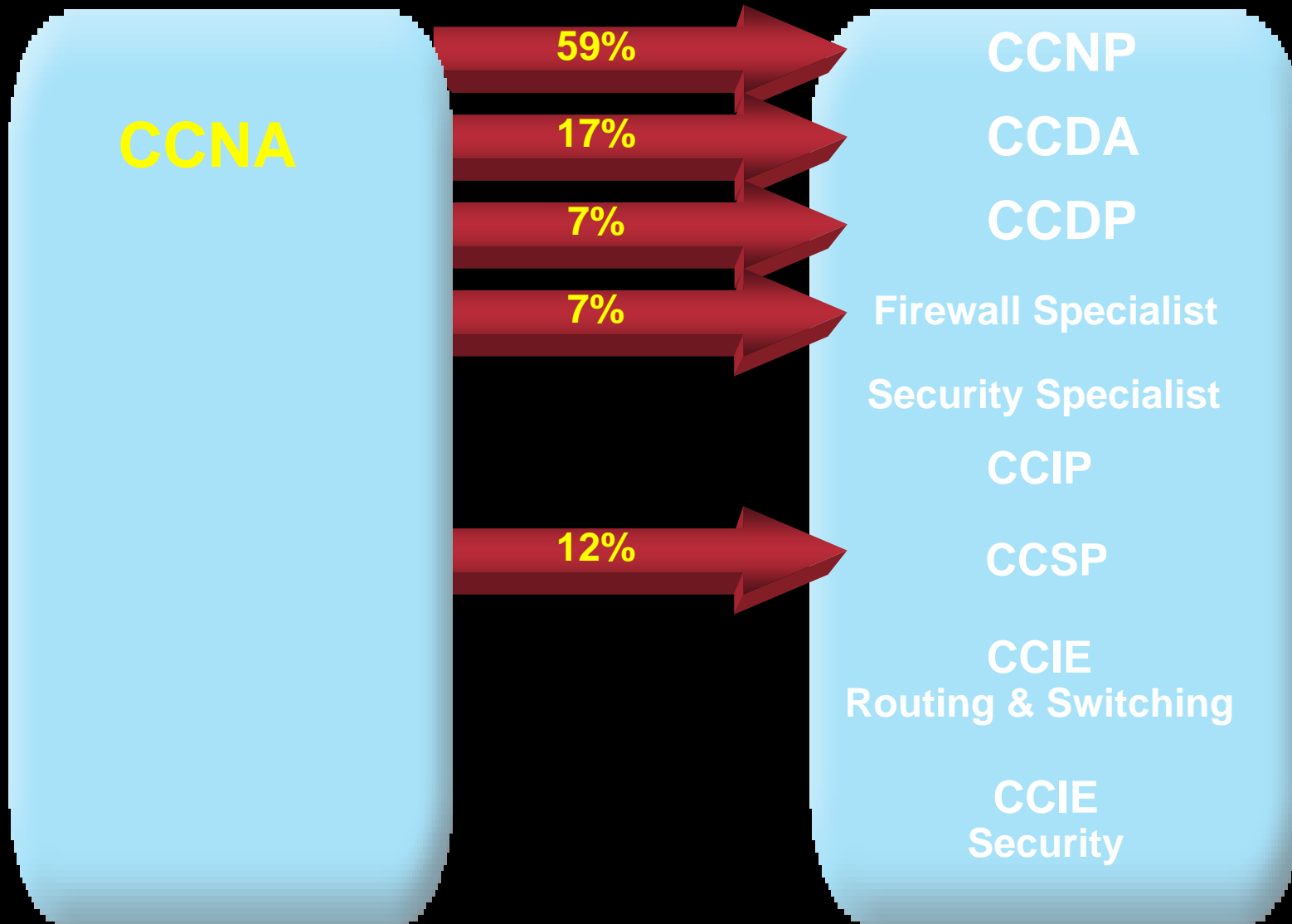
Cisco 2600XM

- ***Increased performance of up to 33% for processor-intensive services***
- ***Increased default memory***
- ***Increased maximum flash memory to 48 MB***
- ***Increased maximum DRAM memory to 128 MB***
- ***10/100 Fast Ethernet ports on all XM models***



What's the next Cisco certification you intend to attain?

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Mobilitéé



La Mobilité

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Augmentation des Hot spots en Europe

- 1 000 en 2002
- 2 401 en 2004
- Plus de 32 000 en 2007

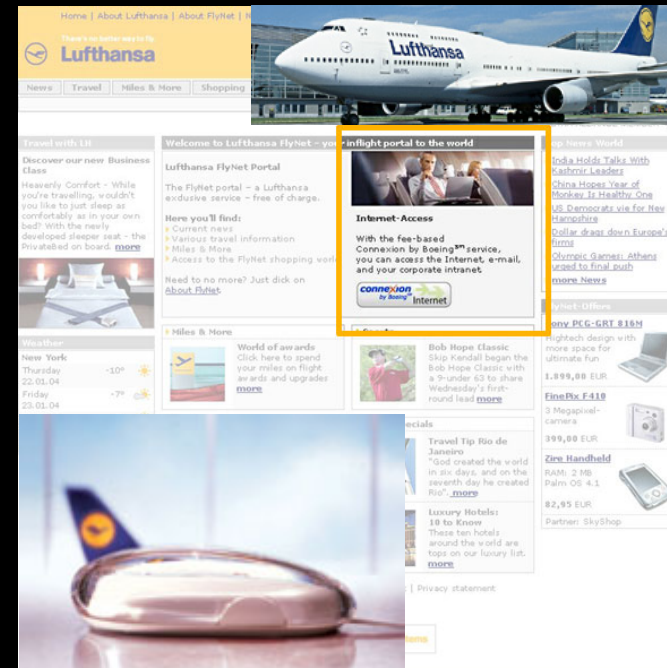
Dans le monde

- 300 000 en 2006

Exemples :

RATP :

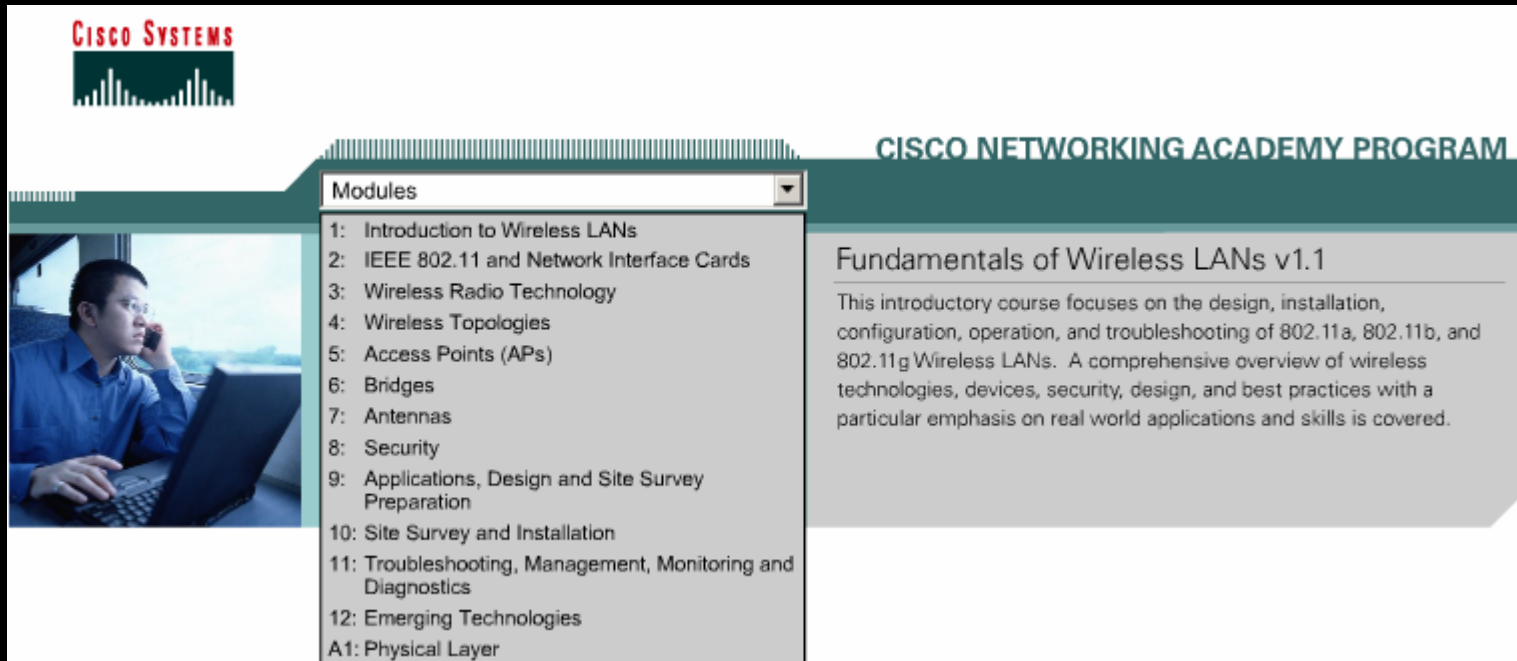
12 Hot spots sur la ligne de bus numéro 38, qui traverse Paris sur un axe Nord-Sud (de Gare du Nord à la Porte d'Orléans)



Lufthansa :

Lufthansa est la première Compagnie aérienne au monde à proposer un accès Internet haut débit. La connexion Internet est établie via 10 satellites géostationnaires situés à une hauteur de 36 000 km. 20 Mbps en download et 1 Mbps en Upload.





CISCO SYSTEMS

CISCO NETWORKING ACADEMY PROGRAM

Modules

- 1: Introduction to Wireless LANs
- 2: IEEE 802.11 and Network Interface Cards
- 3: Wireless Radio Technology
- 4: Wireless Topologies
- 5: Access Points (APs)
- 6: Bridges
- 7: Antennas
- 8: Security
- 9: Applications, Design and Site Survey Preparation
- 10: Site Survey and Installation
- 11: Troubleshooting, Management, Monitoring and Diagnostics
- 12: Emerging Technologies
- A1: Physical Layer

Fundamentals of Wireless LANs v1.1

This introductory course focuses on the design, installation, configuration, operation, and troubleshooting of 802.11a, 802.11b, and 802.11g Wireless LANs. A comprehensive overview of wireless technologies, devices, security, design, and best practices with a particular emphasis on real world applications and skills is covered.



Les cours Mobilité

Cisco.fr

- **12 Chapitres**
- **46 Travaux pratiques**
- **53 Mises en situation**
- **4 Produits PhotoZooms**
- **12 Chapitres Quizzes**



Préconisation : 70 heures

Certification Mobilité

Cisco.fr

- CWNA (Certified Wireless Network Administrator)

Examen (PW0-100) 90 questions (90 minutes)



Subject Area	% Exam
Radio Frequency (RF) Technologies	24%
Wireless LAN Technologies	17%
Wireless LAN Implementation and Management	30%
Wireless LAN Security	16%
Wireless LAN Industry and Standards	13%
Total	100%

Cours sur la mobilité

Cisco.fr

- Installation d'un réseau local sans fil,
- 802.11a et 802.11b technologies, produits et solutions
- Conception de WLAN, installation et configuration
- WLAN Security – 802.1x, EAP, LEAP, WEP, SSID

Estimation du laboratoire

<4000\$

- 8 AIR-PCM352
- 4 AIR-PCI352
- 2 AIR-BR1310G-E-K9-R
- 2 AIR-AP1232AG-E-K9
- 2 AIR-CONCAB1200=
- 8 AIR-ANT4941





Les objectifs

- **Comprendre les technologies et les topologies des réseaux radios sans fil**
- **Configurer, installer un Access Point, un Bridge, une carte et une antenne**
- **Concevoir, installer et maintenir un réseau sans-fil en utilisant l'interface de commande en ligne ou l'interface Web**
- **Identifier les menaces et les risques liés au réseau sans fil**
- **Dépanner une installation Wireless**

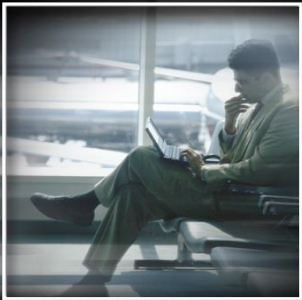
Que font les professionnels certifiés??

Cisco.fr

- **Ils peuvent installer, configurer, et gérer des LAN, WAN, et des services d'accès pour des réseaux ayant jusqu'à 100 PCs et utilisant les technologies et protocoles suivants : IP, IGRP, Serial, Frame Relay, IP RIP, VLANs, RIP, Ethernet, Access Lists....**
- **Estimation de salaire débutant (entre 20k€ à 33k€ par an)**

Sécurité

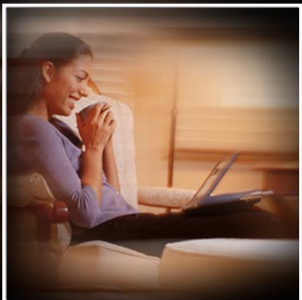




Sur la route (Hôtels, aéroports...)

280 millions de voyages professionnels par an

Baisse de la productivité hors bureau >60-65%



A la maison (téléworking)

137 millions de télétravailleurs en 2003

40% des télétravailleurs US travaillent dans des PME/PMI



Sources : On the road (TIA Travel Poll, 11/99); At home (Gartner 2001, Cahners Instat 5/01)

Pourquoi un cours sur la sécurité?

Cisco.fr

- **Augmentation du nombre de virus informatiques et des attaques de pirates.**
- **Plus de 7 millions d'ordinateurs contaminés chaque jour par des virus.**
- **55 milliards de dollars de dégâts au niveau international**

Quelles sont les menaces?

- **Les hackers s'attaquent aux réseaux complexes et services via Internet**
- **Les attaques touchent :**
 - Routeurs, commutateurs, Hosts, réseaux (Local ou remote)**
 - Applications, Operating systems, Security devices, remote Users, Business partners, Wireless Access points, extranet, etc...**

Les coûts des attaques

Cisco.fr

Type of crime	2000	2002
Theft of proprietary information	\$ 66.7	\$170.8 +256%
Financial fraud	\$ 56.0	\$115.7 +207%
Virus	\$ 29.2	\$50.0 +171%
Insider Net Abuse	\$ 28.0	\$50.1 +179%
Denial of service	\$ 8.2	\$18.4 +223%
System penetration by outsiders	\$ 7.1	\$13.1 +184%
Other (laptop theft, telecom fraud, wiretapping, insider access)	\$ 69.8	\$36.9 - 47%
TOTAL	\$ 265M	\$455M +172%

***223 Respondents for 2002 – Over \$2 million dollars per year!
Compare this to the cost of implementing a comprehensive security
solution!***

CSI/FBI 2002 Report on Computer Crime

Cours sur la sécurité : PIX

Cisco.fr



CISCO NETWORKING ACADEMY PROGRAM

Modules

- 1: Overview of Network Security
- 2: PIX Security Appliance Basics
- 3: PIX Security Appliance Translations and Connections
- 4: PIX Security Appliance ACLs
- 5: PIX Security Appliance AAA
- 6: PIX Advanced Protocols and Intrusion Detection
- 7: PIX Failover and System Maintenance
- 8: PIX Security Appliance VPN
- 9: PIX Security Appliance Management and System Maintenance




Fundamentals of Network Security: PIX v1.2

The Fundamentals of Network Security: Pix course focuses on the overall security processes based on a security policy with an emphasis on hands-on skills in the areas of secure perimeter, secure connectivity, security management, identity services, and intrusion detection.

Cours sur la sécurité : Routing

Cisco.fr



The screenshot shows the Cisco Systems logo at the top left. Below it is a navigation menu with a dropdown menu labeled "Modules" that is open, listing seven items: 1: Overview of Network Security, 2: Basic Router and Switch Security, 3: Router ACLs and CBAC, 4: Router AAA Security, 5: Router IDS, Monitoring, and Management, 6: Router Site-to-site VPN, and 7: Router Remote Access VPN. To the right of the menu is a section titled "Fundamentals of Network Security: Router v1.2" with a description: "The Fundamentals of Network Security: Router course focuses on the overall security processes based on a security policy with an emphasis on hands-on skills in the areas of secure perimeter, secure connectivity, security management, identity services, and intrusion detection." The background of the page features a photograph of two people in a lab setting and a stack of blue cables.

CISCO SYSTEMS

CISCO NETWORKING ACADEMY PROGRAM

Modules

- 1: Overview of Network Security
- 2: Basic Router and Switch Security
- 3: Router ACLs and CBAC
- 4: Router AAA Security
- 5: Router IDS, Monitoring, and Management
- 6: Router Site-to-site VPN
- 7: Router Remote Access VPN

Fundamentals of Network Security: Router v1.2

The Fundamentals of Network Security: Router course focuses on the overall security processes based on a security policy with an emphasis on hands-on skills in the areas of secure perimeter, secure connectivity, security management, identity services, and intrusion detection.

Les cours Sécurité

Cisco.fr

- 15 Chapitres
- 48 Travaux pratiques
- 30 Mises en situation
- 10 Produits PhotoZooms
- 15 Chapitres Quizzes

Préconisation : 140 heures



Macromedia Flash Player 6

File View Control Help

Syntax Activity:
nameif, interface, & ip address

0 Step 0:

1 There are 3 commands you must issue in order to configure your interfaces for basic operation.

2

3

4 These commands are nameif, interface, and ip address.

In this activity you will practice these commands on 3 different interfaces.

You can view the topology graphic at any time by clicking on the Show Topology tab.

To begin, please click on Step 1.

Toolbar: Roll over the tools

The diagram illustrates a network topology with the following components and connections:

- Internet:** Represented by a cloud icon, connected to the Pod Perimeter.
- Pod Perimeter:** A router with interface `e0 outside .2` connected to the Internet. It has an IP address of `192.168.1.0/24`.
- PIX Firewall:** A firewall with interface `e1 inside .1` connected to the Pod Perimeter. It has an IP address of `172.16.1.0/24`.
- Backbone server:** A server with IP address `172.26.26.50` connected to the Internet.
- Inside host:** A server with IP address `10.0.1.0/24` connected to the PIX Firewall via interface `e2 dmz .1`.
- Bastion host:** A server with IP address `172.16.1.0/24` connected to the PIX Firewall via interface `e2 dmz .1`.

Photozoom

Macromedia Flash Player 6

PIX 515 Firewall

Top Inside View:

Even though the PIX 515 Firewall is housed in a standard Cisco 2600 series router chassis, the internal architecture is significantly different. The PIX motherboard is smaller, but includes a Pentium Pro processor and 2 PCI expansion slots.

Very few maintenance tasks require removal of the top panel, excluding upgrading memory or replacing the lithium battery.

Before removing the top panel, ensure that the unit is

Toolbar: Roll over the tools

Help
?
+
-
1:1
i
Info

Front View	Rear View	Expansion Card	Top Inside View

Laboratoire Sécurité

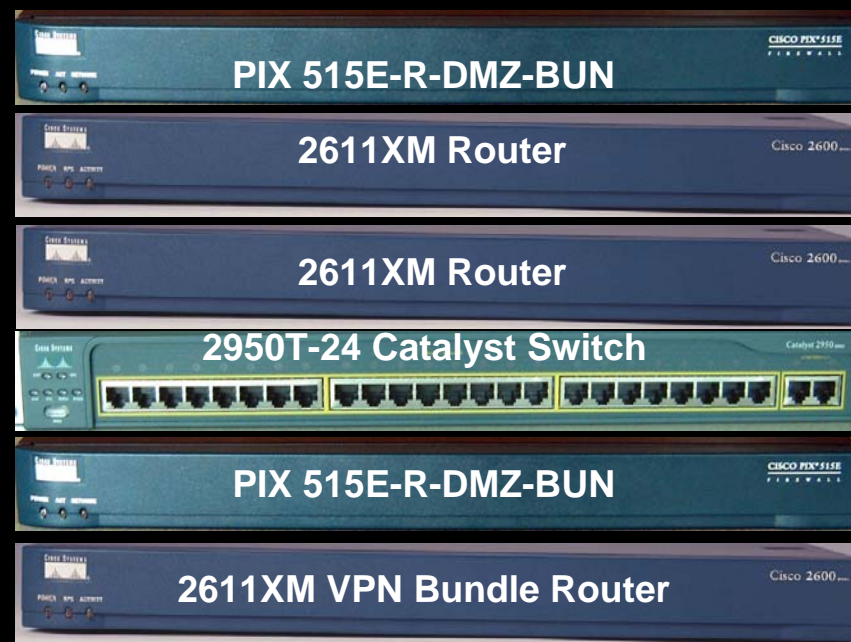
Cisco.fr

Hardware

- 1X 2611XM Routeur
- 2X 2611XM VPN Bundle Routers
- 2X PIX 515E-R-DMZ-BUN (Chassis, 3FE Ports)
- 1X 2950T-24 Catalyst Switch

Software et Maintenance

- Cisco Secure ACS
- SMARTnet



Estimation : 9 000€

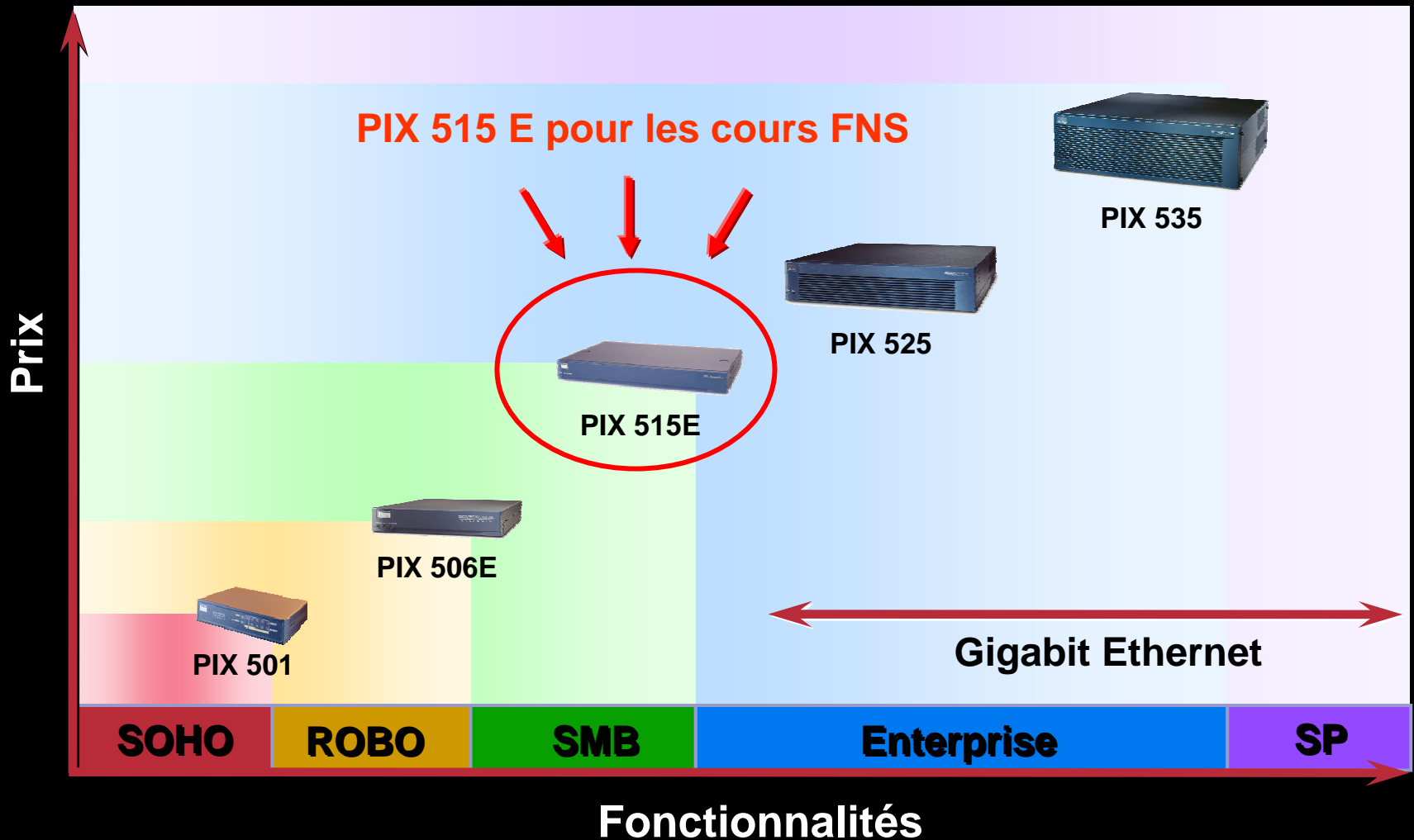
Peut supporter ~6 students

Ne comprend pas :

Le coût de la formation

Ne nécessite pas de CCNA, CCNP ou SC laboratoires

PIX 515 E



Certification

Cisco.fr

- **CFSS (Cisco Firewall Specialist & Security +)**

- **SECUR (Securing Cisco IOS Networks)**

642-501

Certification : CCSP, Cisco Firewall, VPN

Durée : 90 Minutes 65-75 minutes

Langue : Anglais

- **CSPFA (Cisco Secure PIX Firewall Advanced)**

642-521

Certification : CCSP, Cisco Firewall Specialist

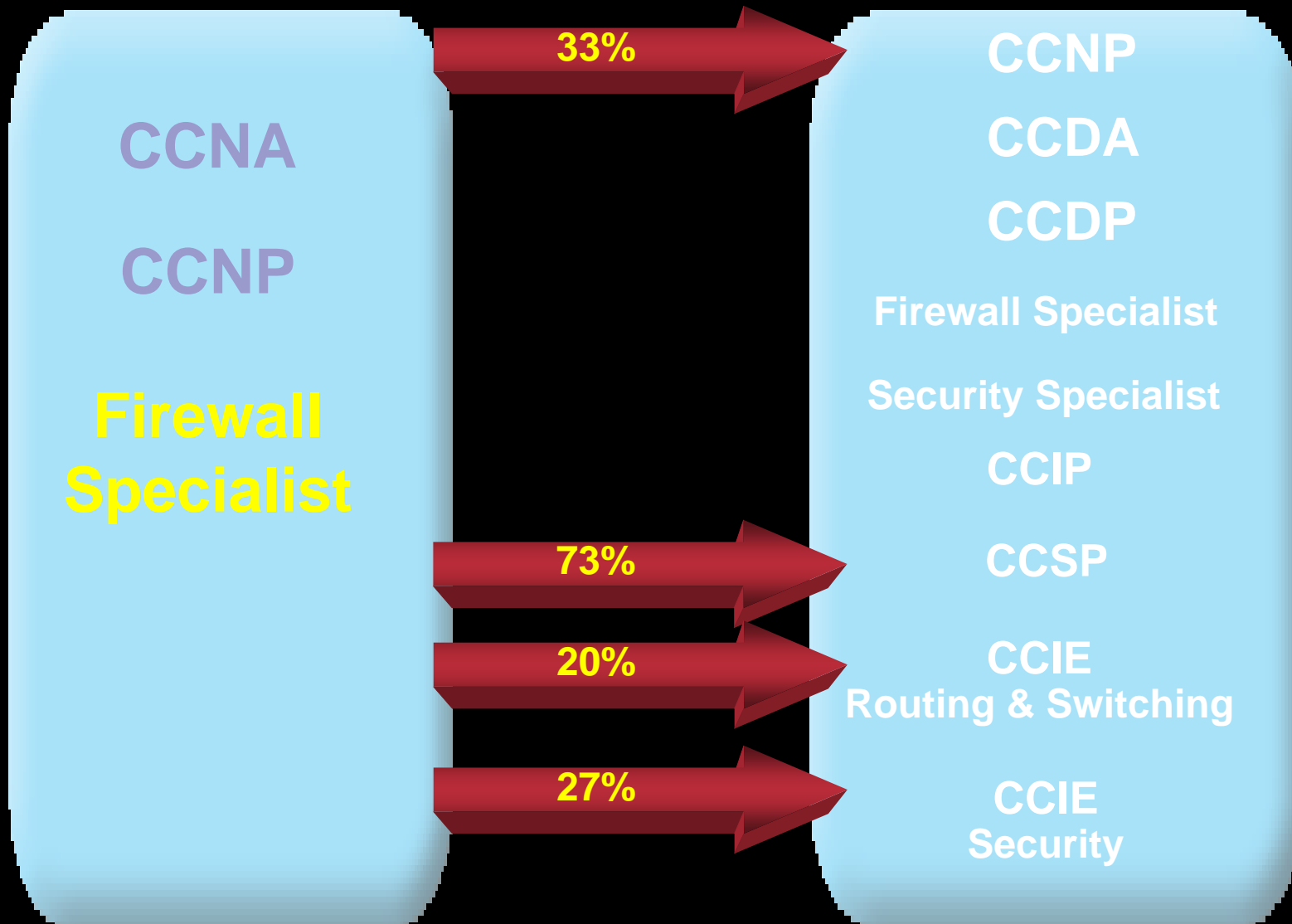
Durée : 75 minutes (55-65 questions)

Langue : Anglais



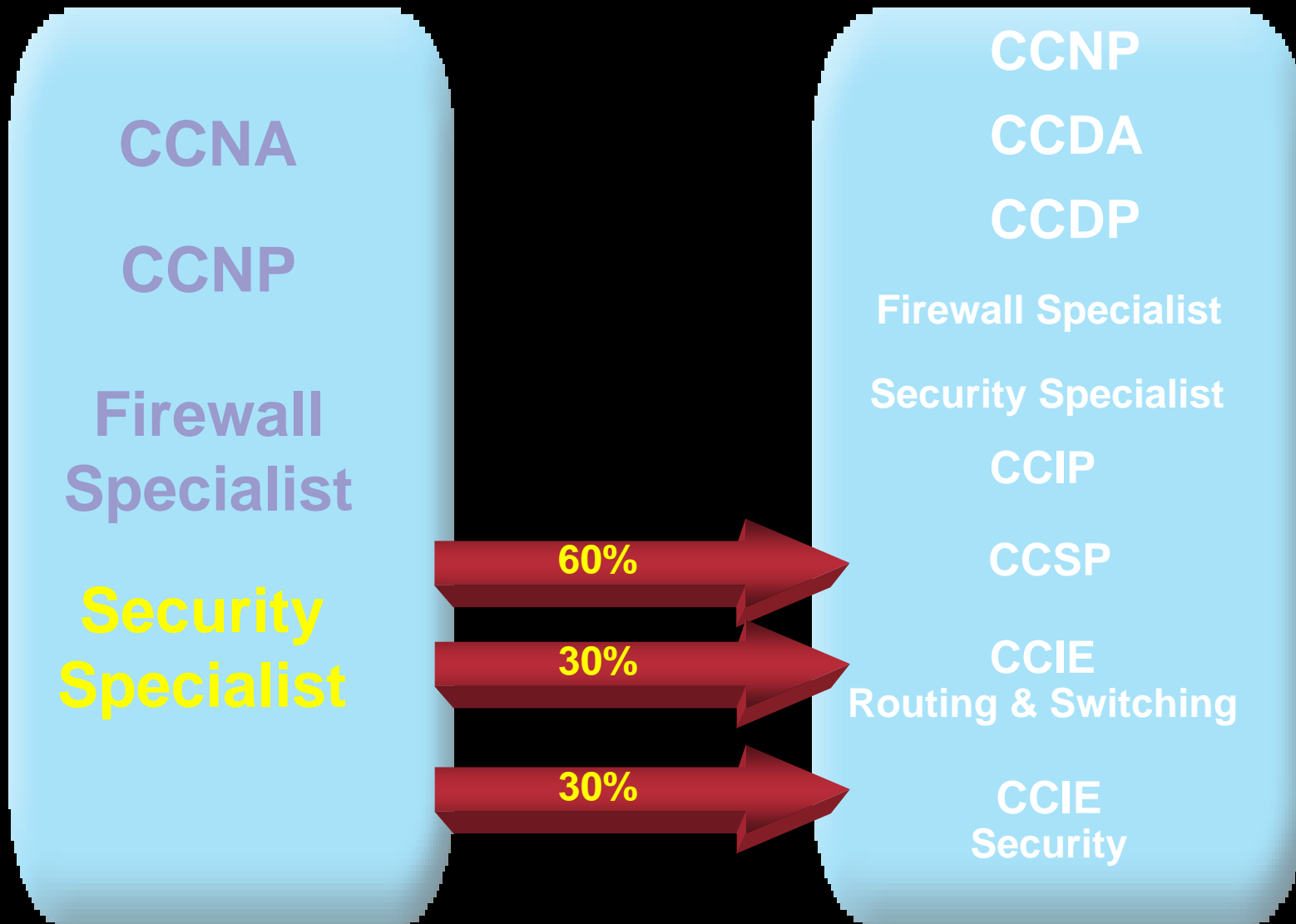
What's the next Cisco certification you intend to attain?

Cisco.fr



What's the next Cisco certification you intend to attain?

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CCNP



Le CCNP

Cisco.fr

Module 5 (70 heures)

- Advanced Routing

Module 6 (70 heures)

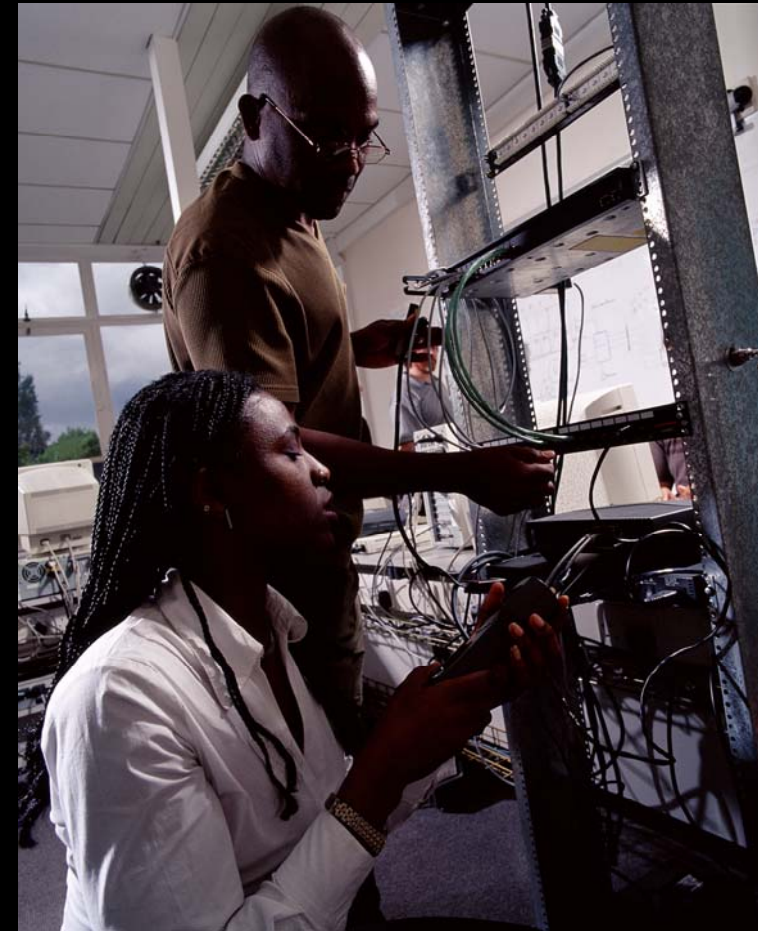
- Remote Access

Module 7 (70 heures)

- Multilayer switching

Module 8 (70 heures)

- Network troubleshooting



Certifications

Cisco.fr

- **CCNA 640-801**

INTRO (Introduction to Cisco Networking Technologies)

640-821

ICND (Interconnecting Cisco Networking Devices)

640-811



- **CCNP**

BSCI (Building Scalable Cisco Internetworks)

642-801

BCMSN (Building Cisco Multilayer Switched Networks)

642-811

BCRAN (Building Cisco Remote Access Networks)

642-821

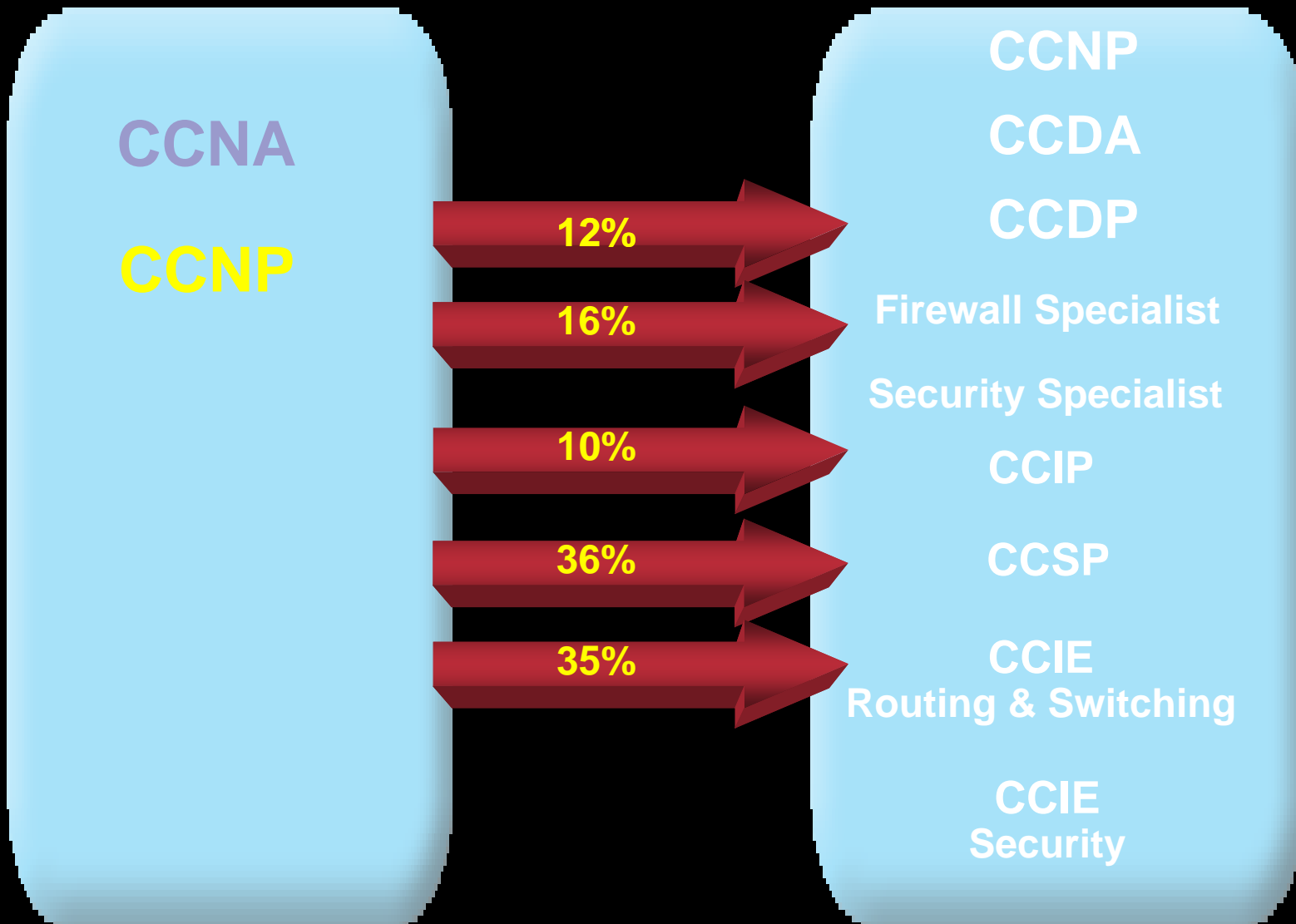
CIT (Cisco Internetwork Troubleshooting)

642-831



What's the next Cisco certification you intend to attain?

Cisco.fr



Sponsored Curriculum



Introduction aux technologies de l'information

- Module 1: Information Technology Basics
- Module 2: Fonctionnement des ordinateurs
- Module 3: Assemblage d'un ordinateur
- Module 4: Système d'exploitation: notions de base
- Module 5: Système d'exploitation Windows 9x
- Module 6: Système d'exploitation Windows NT 2000 XP
- Module 7: Système d'exploitation Windows XP
- Module 8: Multimedia Capabilities
- Module 9: Advanced Hardware Fundamentals for Servers
- Module 10: Notions des réseaux
- Module 11: Imprimantes et impressions
- Module 12: Maintenance préventive et mise à niveau
- Module 13: Dépannage du matériel PC
- Module 14: Dépannage logiciels

Module
70 heures

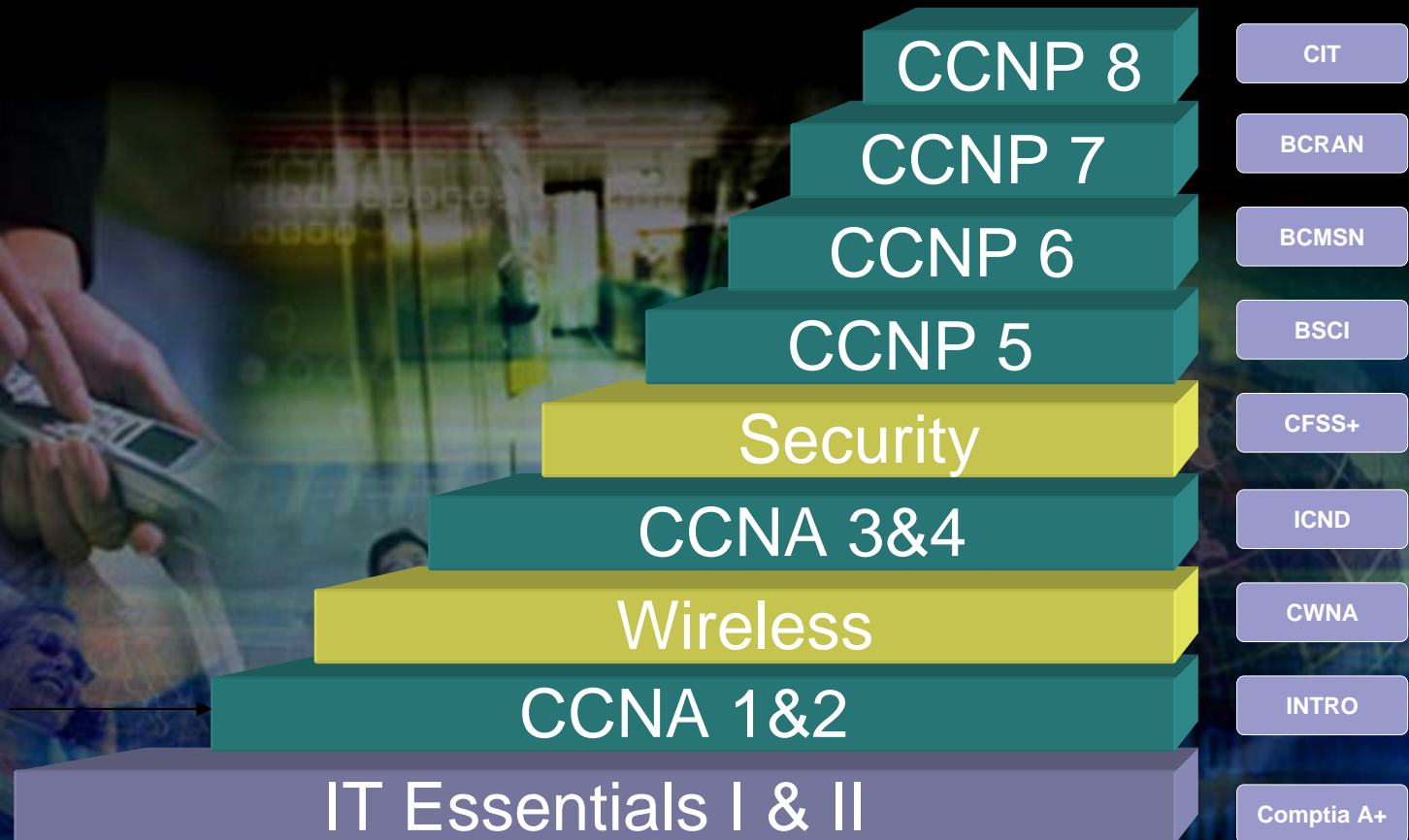
**Disponible en français
depuis le 28 janvier 2005**

Certifications



Curriculum and Certifications

Cisco.fr



Comptia A+ Hardware et Operating System

ICND Interconnecting Cisco Networking Devices Exam

CCNA Cisco Certified Network Associate
CWNA Certified Wireless Network Administrator
CFSS+ Cisco Firewall Specialist & Security +

BSCI Building Scalable Cisco Internetworks

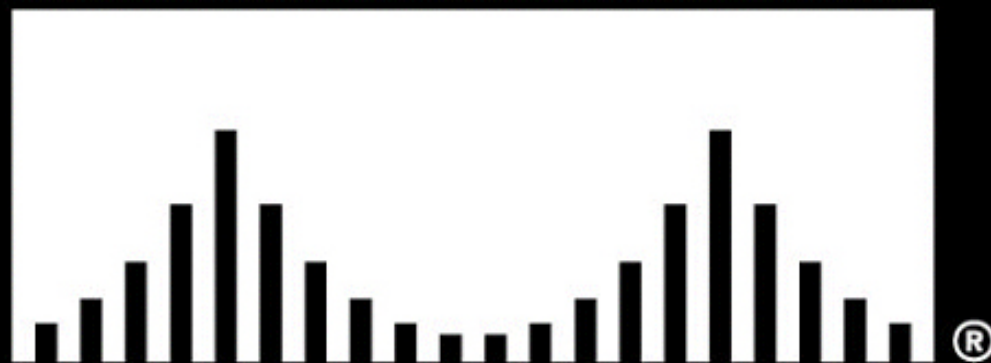
BCMSN Building Cisco Multilayer Switched Networks

BCRAN Building Cisco Remote Access Networks

CIT Cisco Internetwork Troubleshooting support



CISCO SYSTEMS



CONSTRUISONS LA
GENERATION INTERNET