CCNA (Cisco Certified Network Associate)

授課教師:趙志宏老師

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Cisco Certified Certification

- Entry
 - CCENT
- Associate
 - Design (CCDA)
 - Routing and Switching (CCNA)
 - Security (CCNA Security)
 - SP Operations (CCNA SP Ops)
 - Voice (CCNA Voice)
 - Wireless (CCNA Wireless)



- Professional
 - Design (CCDP)
 - Routing & Switching (CCNP)
 - Security (CCSP)
 - Service Provider (CCIP)
 - Voice (CCVP)
 - Wireless (CCNP Wireless)





- CCDE Design Expert
- CCIE SP Operations
- CCIE Routing and Switching
- CCIE Security
- CCIE Service Provider
- CCIE Storage Networking
- CCIE Voice
- CCIE Wireless

Architect

Cisco Certified Architect

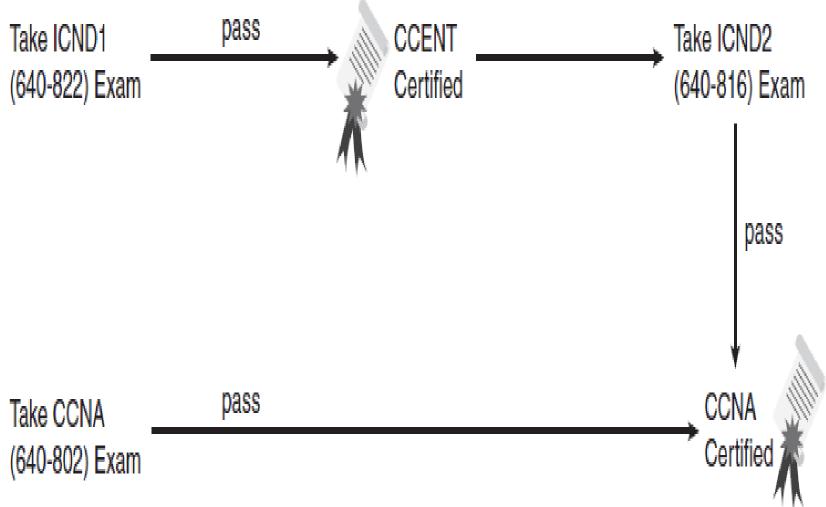


CCNA History

- The first three versions of the CCNA certification required that you pass a single exam to become certified.
 - 1998, 2000, and 2002
- For the current certifications, announced in June 2007
 - ICND1 (640-822) exam
 - ICND2 (640-816) exam
 - CCNA (200-120) exam

CCENT & CCNA Certified





CCNA Certification



Cisco Career Certifications

Chih-hung Chao

HAS SUCCESSFULLY COMPLETED THE
CISCO CAREER CERTIFICATIONS TEST REQUIREMENTS
AND IS RECOGNIZED AS A

Cisco Certified Network Associate - CCNA

CISCO ID# CSCO10031619

John J. Chambers
President and CEO
Cisco Systems, Inc.

Issued: August 29, 1999



CISCO SYSTEMS

CCNP Certification



Chih-Hung Chao

HAS SUCCESSFULLY COMPLETED THE CISCO CAREER CERTIFICATIONS TEST REQUIREMENTS AND IS RECOGNIZED AS A

Cisco Certified Network Professional – CCNP

DATE: June 23, 2000

Cisco ID# CSCO10031619

John Chambers





Career Certifications Business Card









Company ABC, Inc.

Jane Doe Senior Council 650 555-1212 janed@abcinc.com



100 El Camino Real Palo Alto, CA 94306-2155

Books



*教科書

CCNA網路規劃與管理實務

❖參考書

- CCENT/CCNA ICND1專業認證手冊 (第三版) (基峰)
- CCENT/CCNA ICND2專業認證手冊 (第三版) (基峰)
- CCNA模擬實戰演練 (上奇資訊)

課程內容與進度



- **❖第01周:**課程基本簡介
- ❖第02周:網路基本運作認識
- ❖第03周:網路模型運作、ICMP與ARP協定
- ❖第04周:網際網路協定IPv4規劃
- ❖第05周:Cisco IOS介紹與常用設定
- ❖第06周:交換器基礎功能介紹
- ❖第07周:路由協定原理介紹
- ❖第08周:基礎路由協定RIP
- ❖第09周:期中考



- ❖第10周:OSPF路由協定
- ❖第11周:網際網路協定IPv6介紹與設定
- ❖第12周:IPv6 NDP、Auto-Config and ICMPv6
- ❖第13周:交換器進階功能介紹
- **❖第14周:**廣域網路介紹
- **❖第15周:**期末分組報告
- **❖第16周**:期末分組報告
- ❖第17周:期末考
- ❖第18周:期末總檢討

其它課程資源



- Packet Tracer 6.0.1
 - http://mrtg.nuk.edu.tw/~wilson/pt6.exe
- Wireshark
 - http://www.wireshark.org/
- ❖上課資料
 - 新版高大教學平台
 - http://elearning2.nuk.edu.tw/
- Exam Engine and Questions on the CD

評量方法



- ❖平時成績: 30%
 - 包括課堂表現、實作練習、作業及分組報告。
- ❖出席率:
 - 1.全勤者,本項成績10分。
 - 2.缺席1次不扣分;缺席2次本項成績8分;缺席 3次本項成績6分;缺席4次本項成績4分;缺席 5次本項成績2分;缺席6次(含)以上則本項成績 以0分計。
- ❖期中考:30%
- ❖期末考:30%

分組報告



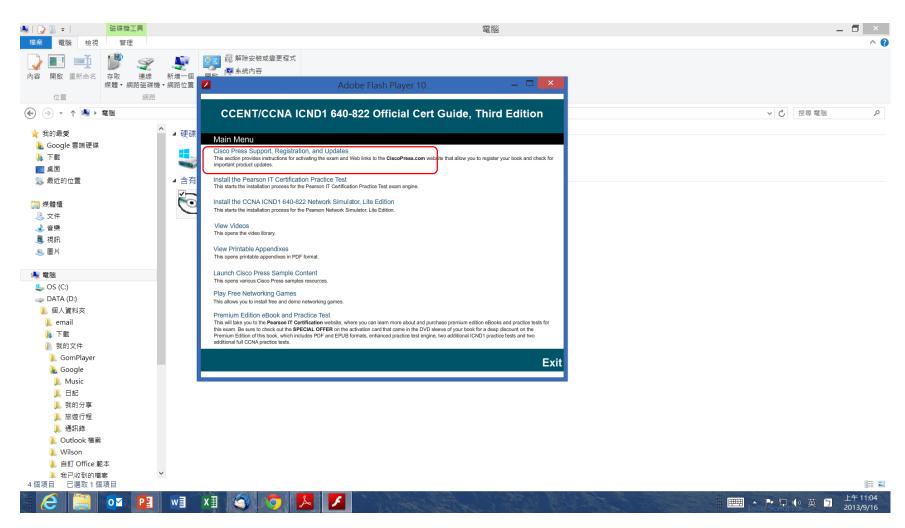
高雄大學資訊管理學系 102 學年度第 2 學期 CCNA 網路認證課專題報告日程表(Ref. ICND2_v2)

組別	報告日期	章節	頁次
第一組	05.20	5.2	202 ~ 211
第二組	05.20	5.3 ~ 5.4	211 ~ 223
第九組	05.20	15.2 ~ 15.4	528 ~ 539
第三組	05.27	7.2 ~ 7.3	270 ~ 288
第四組	05.27	7.4	288 ~ 300
第五組	05.27	10.2	380 ~ 389
第六組	06.03	10.3	389 ~ 402
第七組	06.03	11.2 ~ 11.3	408 ~ 417
第八組	06.03	11.4	418 ~ 427

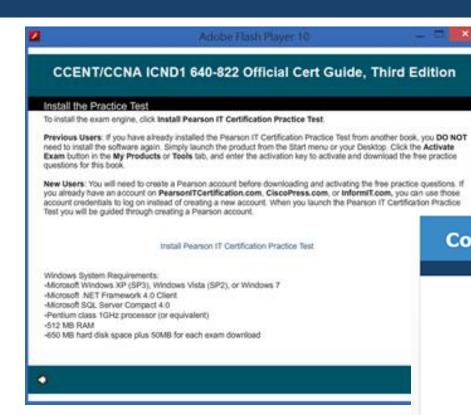
Exam Engine



Pearson IT Certification Practice Test









Exam questions



- The exam questions can be in one of the following formats:
 - Multiple-choice (MC)
 - Testlet
 - Drag-and-drop (DND)
 - Simulated lab (Sim)
 - Simlet

Multiple-choice (MC)



Boson Exam Environment — v2.0.2 :: Custom Exam

File Exam Feedback Help

Cisco Press CCNA ICND 2:: CD-I2-2-57-008-1

Question 111 of 150 0% correct Mark for review

The exhibit shows the output from commands that are issued on SW1 and SW2 in the figure. Assume that all STP parameters not implied by the text in the exhibit are default values, except for priority, where SW3 has a priority of 30,000 and SW4 has a priority of 30,001. Which of the following commands would immediately change the topology of the spanning tree?

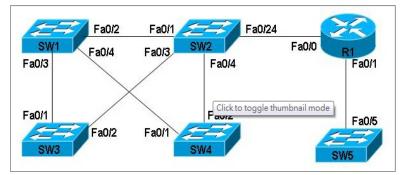


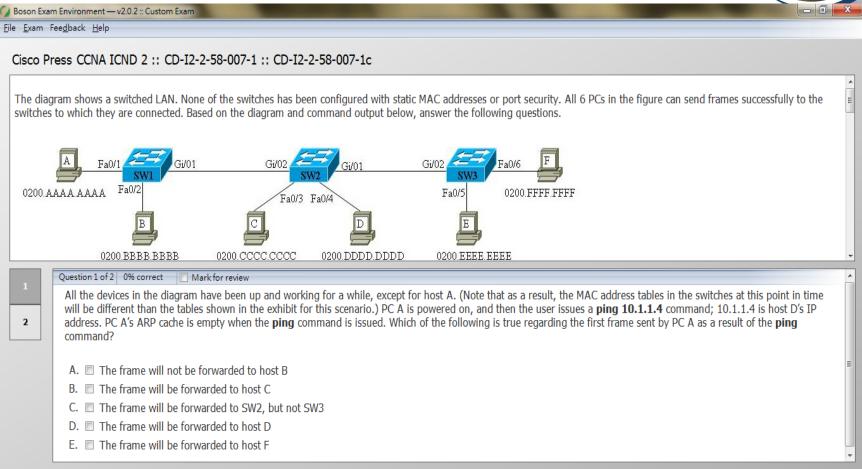
Exhibit 1 (Click to expand)

- A. The spanning-tree vlan 1 priority 20000 global configuration command on SW1
- B. The **spanning-tree vlan 1 priority 20000** global configuration command on SW2
- C. In the spanning-tree cost 1 command on SW2 under interface fa0/1
- D. The **spanning-tree cost 1** command on SW2 under interface fa0/3
- E. The **spanning-tree vlan 1 root primary** command on SW3



Testlet



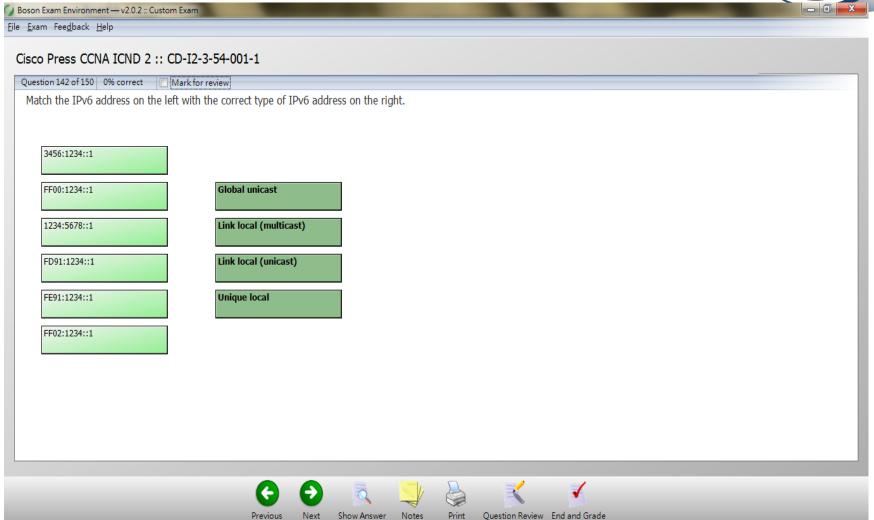


Notes

Ouestion Review End and Grade

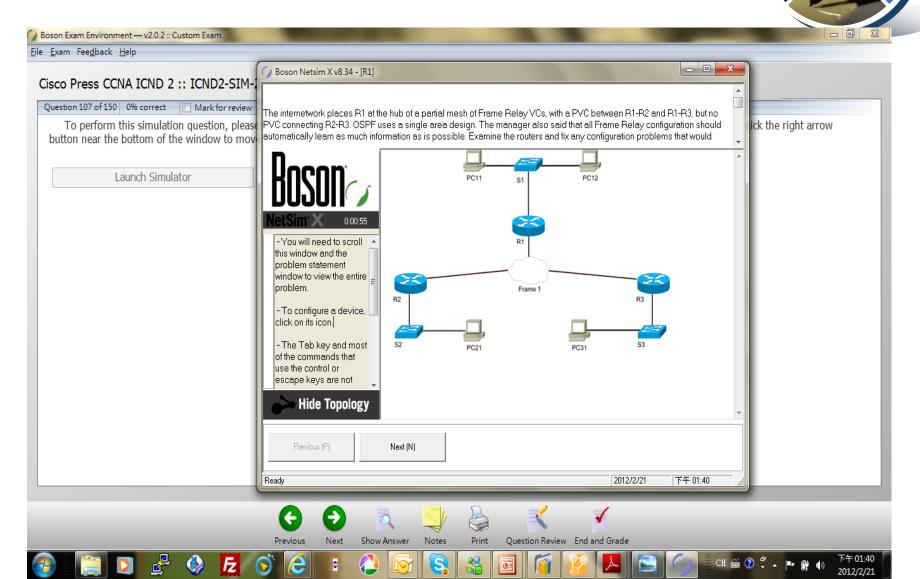
Drag-and-drop (DND)





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Simulated lab





♦Sim

一般描述一個疑難問題,而你的任務是設定一個或多個路由器及交換器組態來解決它。

Simlet

■ 要求你分析工作網路和有問題的網路,將show 指令輸出結果與你的網路理論和組態設定知識 加以關聯在一起。

Question?



