



and

Heartland Community College Corporate Training

CCNA Power CampSM Syllabus

Commitment:

Class time is forty hours. Classes will be over eight of the next ten weeks

Days and times the class meets:

Monday and Wednesday 5:30 pm - 8:00 pm - April 10, 2006 through June 14, 2006

Location of Class:

1226 Towanda Plaza room #213E

Description:

CCNA Power CampSM is a comprehensive review and practice training for the new CCNA exam. Whether you choose to take the new two-exam track or the single, unified CCNA exam, you will find all the tools you need to fully prepare you for CCNA certification. The two books contained in this course, CCNA INTRO Exam Certification Guide and CCNA ICND Exam Certification Guide, present complete reviews and ample opportunity to test your knowledge of CCNA exam topics. This course shares preparation hints and test-taking tips, helping you identify areas requiring further study and improve both your conceptual and hands-on knowledge. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics.

Prerequisites:

Keyboarding, mouse skills, and basic mathematic skills, are required. Also you should have a good background in both computers and basic networking. The Cisco Networking classes are advanced concept classes and would require a lot of work for computer novices. These classes will give you the background in networking. If you do not have a good background in computers, we suggest that you not take the exam immediately. You can also opt to take the exam in two parts.

Note:

This training will be intensive. We expect you to learn complex concepts in a short period. In order to pass the exam you will have to put in a lot of time reading, practicing, learning, and understanding certain concepts. Cisco designed the CCNA exam to test knowledge not trivia. Some say it is a difficult exam. It will not be possible to just memorize certain items and pass the exam.

We do not guarantee that you will pass the CCNA by successfully completing this course.

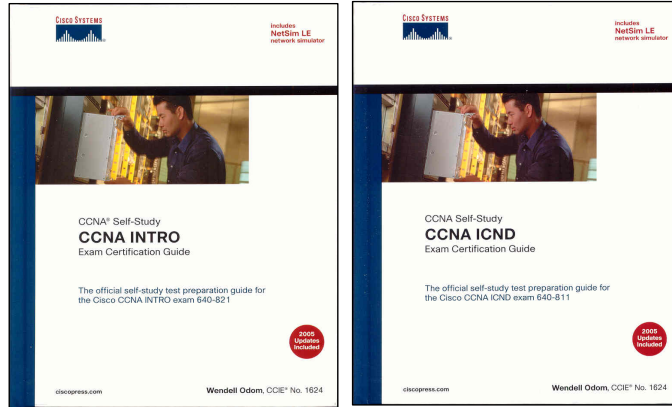
Instructor Information:

Instructor	Bryan Griffin	Sandullah Epsicokhan (san-DO-la ep-see-ko-KAAHN)
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Required Textbooks and Supplies:

Wendell Odom (2004), *CCNA® Self-Study CCNA Certification Library*, Cisco Press, Indianapolis, IN: [ISBN: 1-58720-095-3]

CCNA INTRO Exam Certification Guide and CCNA ICND Exam Certification Guide present you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists and Foundation Summary tables make referencing easy and give you a quick refresher whenever you need it. Challenging chapter-ending review questions help you assess your knowledge and reinforce key concepts. Scenario-based exercises help you think about exam objectives in real-world situations, thus increasing recall during exam time.



The companion CD-ROMs contain a powerful new testing engine that allows you to focus on individual topic areas or take complete, timed exams from INTRO, ICND, or unified CCNA test banks. The assessment engine also tracks your performance and provides feedback on a module-by-module basis, presenting question-by-question remediation to the text and laying out a complete study plan for review. The CD-ROMs also include a wealth of hands-on practice exercises and a copy of the Boson NetSim(tm) for CCNA, Learning Edition, network simulation software that allows you to practice your hands-on skills in a virtual lab environment.

Well-regarded for their level of detail, assessment features, and challenging review questions and exercises, these books help you master the concepts and techniques that will enable you to succeed on the CCNA exam the first time. And to help you on the road to your CCNA certification, this package also includes a \$10US voucher, valid worldwide, good for any of the new CCNA exams.

CCNA Certification Library is part of a recommended study program from Cisco Systems(r) that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press.

Companion CD-ROM

The two CD-ROMs contain over 500 practice questions for the ICND, INTRO, and CCNA exams, including simulation-based questions. Also contains hands-on exercises and a copy of the NetSim for CCNA LE network simulation software.

This volume is part of the Exam Certification Guide Series from Cisco Press(r). Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears.

Student Discipline

Each student is expected to respect others. Discussions are encouraged during class but only one person should speak at a time. Questions can be asked at any time once you have the instructor's attention. Students are expected to be prepared before the class starts. Students are also expected to participate and complete assigned labs, reading assignments and homework.

Student Learning

Taking classes in the evening can be difficult. It takes commitment and effort and can be especially difficult when you have other obligations. However, if the topic is fun, learning is much easier. I hope we will have fun and learn at the same time.

Instructor's role

As an instructor I can give you my experiences and information. However, learning is something that is personal. I cannot learn the material for you, or do your labs, or homework.

Course Objectives (Learning Outcomes)

At the completion of this course, the student should be familiar with:

- TCP/IP and OSI networking models
- Operating Cisco(r) routers and LAN switches
- IP addressing and subnetting
- Discovering information about an IP network
- Analog modems, PAP/CHAP, DSL, and cable
- Spanning Tree Protocol (STP), VLANs, and trunking
- RIP, IGRP, EIGRP, OSPF, and static route concepts and configuration
- Variable-length subnet masking (VLSM) support and route summarization
- Classless Interdomain Routing (CIDR) and Network Address Translation (NAT)
- Point-to-point leased line implementation
- ISDN and Dial-on-Demand Routing (DDR)
- Frame Relay configuration
- IP Access Control List (ACL) security

Methods of Instruction:

The instructional techniques will be a 2 hour 30 minute lecture/discussions and hands-on labs twice per week. This will give the student the opportunity to ask questions, practice the skill, explore the concept presented, and receive feedback on the skills and concepts presented. The emphasis is on skill development.

Participation and Attendance:

Attendance is not mandatory but regular class attendance is an important part of educational success and is expected of all students. With, lecture or labs almost every night, attendance is very important.

Deadlines:

Unless otherwise arranged, all assigned work must be completed prior to next class.

Required Writing and Reading:

Required reading includes two books totaling over 1235 pages. Practice exams, labs, and simulations on the CDs are also part of the reading requirements.

Student Conduct:

Following these steps will assist the student in achieving success in this course:

- A. Attend the lectures regularly.
- B. Complete all labs and homework.
- C. Participate in class. You need to be actively involved. Ask questions if you don't understand a concept presented or if you need a point clarified.
- D. Read the material in the textbook before class to have a general idea of what will be discussed. Read the material again after the lecture for clarification and reinforcement of main ideas.
- E. Review class notes and examples before starting homework assignments.
- F. Do the homework and lab assignments in a timely manner.

Syllabus Disclaimer:

The instructor reserves the right to make updates to the syllabus as needed. Every attempt was made to deliver as accurate a document as reasonable.

Course Calendar:

Week	Date	Day	Topic	Book	Chapters	Lab
1	4/10/2006	Mon	Network Fundamentals	INTRO	Introduction & Icons	No Lab
	4/12/2006	Wed	Network Fundamentals	INTRO	1, 2	No Lab
2	4/17/2006	Mon	Network Fundamentals	INTRO	3, 4	No Lab
	4/19/2006	Wed	Network Fundamentals	INTRO	5, 6	No Lab
3	4/24/2006	Mon	Network Fundamentals	INTRO	7, 8	Lab 1, Lab 2
	4/26/2006	Wed	LAN Switching	INTRO	9, 10	No Lab
3a	5/1/2006	Mon	Catch Up			No Lab
	5/3/2006	Wed	Catch Up			No Lab
3b	5/8/2006	Mon	Catch Up			No Lab
	5/10/2006	Wed	Catch Up			No Lab
4	5/15/2006	Mon	LAN Switching	INTRO	11	No Lab
				ICND	1	No Lab
	5/17/2006	Wed	LAN Switching	ICND	2, 3	VLAN Trunk Configuration
5	5/22/2006	Mon	TCP/IP	INTRO	12, 13	Lab 3
	5/24/2006	Wed	TCP/IP	INTRO	14	No Lab
				ICND	4	Lab 1
6	5/29/2006	Mon	TCP/IP	ICND	5, 6	No Lab
	5/31/2006	Wed	TCP/IP	ICND	7, 8	No Lab
7	6/5/2006	Mon	Wide Area Network	INTRO	15	No Lab
				ICND	9	TBD
	6/7/2006	Wed	Wide Area Network	ICND	10, 11	Lab 3
8	6/12/2006	Mon	Network Fundamentals	ICND	12	Lab 2
			Final Preparation	INTRO	16	CD Scenario 3
	6/14/2006	Wed	Final Preparation	ICND	13	CC Scenario 1, 2