



Academy Conference 2011 Technical Update

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Changing Trends

Passport 21

Curriculum Updates

Equipment & IOS 15

Packet Tracer SBA's



Understanding my Audience

- How many of you are Instructors, LMC's, or any other?
- IT Essentials Academies?
- CCNA Academies?
- CCNA Security/ CCNP?

- Packet Tracer
 - Packet Tracer Skills Based Assessments
- Passport 21
- NetAcad Maintenance

Technology Acceleration

***New Technologies
Outpace Adoption
Cycle***



***Digital Content
Enables Mass
Customization***



***Technology
Enables
Alternative Models
of Learning***



***Technology Usage
Gives Students a
Competitive Edge***



Evolving Models of Teaching Encourage Innovation



Online courses and assessments complement traditional classroom instruction



Social networking supports collaborative learning environments



Digital portfolios reflect range of student and faculty work



Innovative technologies enable professors to teach in new ways

How is the Cisco Networking Academy Addressing these Trends?



Comprehensive Learning Experience

Cisco Networking Academy's Comprehensive Learning Experience spans a **Collaborative Global Community**, integrating the **Applied Practice of 21st Century Skills** and **Innovative Curricula and Assessments**

Collaborative Global Community



21st Century Skills and Applied Practice



Innovative Curricula and Assessments



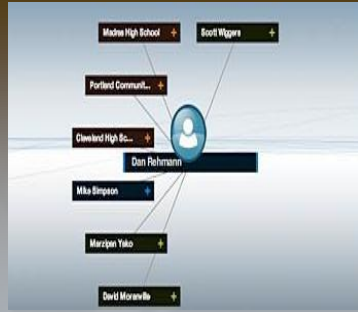
Collaborative Global Community

www.academynetspace.com



Play Games

- Utilizing networking and IT skills
- Some games incorporate Packet Tracer



Connect

- To Academies
- To Individuals
- To your own personal Social Networks

YOUR VIEWS

Looking for more Prize Room Ideas

By [NetSpace Team](#) June 16, 2008 8:51 AM | [Permalink](#) | [Comments \(2\)](#)

We want to continue to update the NetSpace Challenge Prize Room. Because of our global audience we need prizes that can be deliverable electronically. What are some items or enhancements that you would like to see made to our prize room offerings?

Adding Personal URLs to your Profile

By [NetSpace Team](#) June 4, 2008 10:11 AM | [Permalink](#) | [Comments \(14\)](#)

We have just added a section to the profiles where you can put in your personal link to your Facebook, MySpace and other social networking sites. Are there any other sites that are very popular in your region of the world?

Collaborate

- Provide feedback on games in the Game Space
- Submit questions for NetSpace Challenge



Win

- Prize Room
- Recognition on leader boards

- Over 75,000 registered users
(80% students, 8% instructors, 12% affiliates and others)
- Over 17,314 registered in the European, Central & Eastern European, and Russian & CIS countries

Networking Academy on Facebook & Twitter



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Collaborative Global Community



21st Century Skills and Applied Practice



Innovative Curricula and Assessments



Passport 21 Offerings



- A suite of offerings to supplement Networking Academy curricula.
- Designed to help students prepare for 21st century careers.
- Helps students discover career opportunities and expose them to attitudes, mind-set and skills to compete in the 21st century.
- Optional learning materials to use in a class.



Passport21 to Entrepreneurship

Five Case Studies

- Charging for Expertise
- Starting an Internet Café
- Making a Business Successful
- Providing Outsource Services
- Building a Contracting Business

Cisco Aspire Game

Case Studies

Online Modules with Realistic Scenarios



2 Starting an Internet Cafe

2.1 Think like an Entrepreneur

2.1.1 Recognize a Problem

Falcon
Starting and Internet Cafe

The students on the train are Maria and Alex. They have recognized a problem in their lives. This problem is shared by many people in their town. When they realize there is no readily available solution to their problem, they decide to start a new business to solve the problem. This is entrepreneurial thinking.

Entrepreneurs

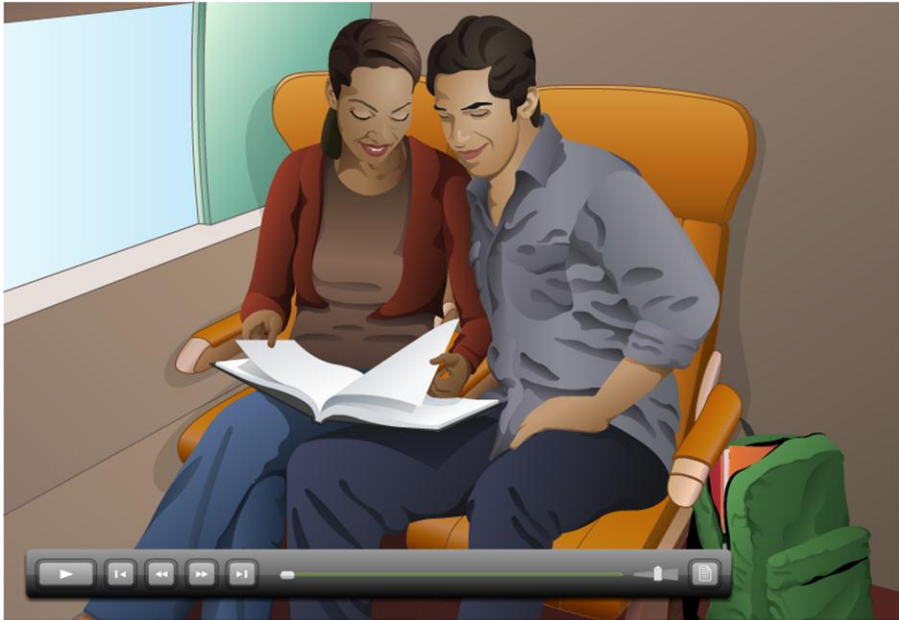
Entrepreneurs create, operate, and assume the risk for a new business venture. They recognize that what some people see as a problem can be a business opportunity.

Many famous companies have been started because an entrepreneur wanted to solve a problem. Bill Gates was a problem solver. Before he started Microsoft, most software was too complicated and confusing. Gates solved this problem by creating software that was easier to use.

Problem solving is just one way to recognize a new business opportunity. There are six roots of opportunity:

- Problem solving** - obstacles or challenges that the business could solve
- Changes** - laws, situations, and trends that evolve over time
- Inventions** - totally new products that are developed
- Competition** - doing the same thing more effectively than others
- Technological Advances** - adapting new technology to an existing product

Unique Knowledge - a special understanding of what the people in your area want



Previous

1 2 3

Cisco Aspire (Learning through Gaming)





Passport21 to Broadband

Two Case Studies

Providing Outsource Services

Building a Contracting Business

Cisco Packet Tracer Simulation Scenarios

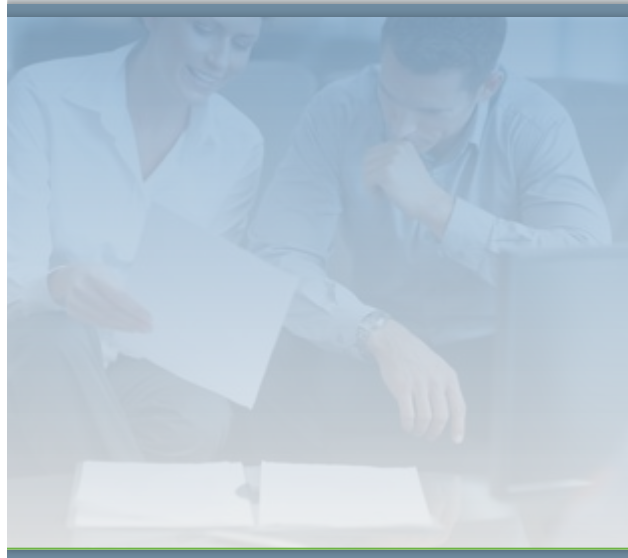
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Collaborative Global Community



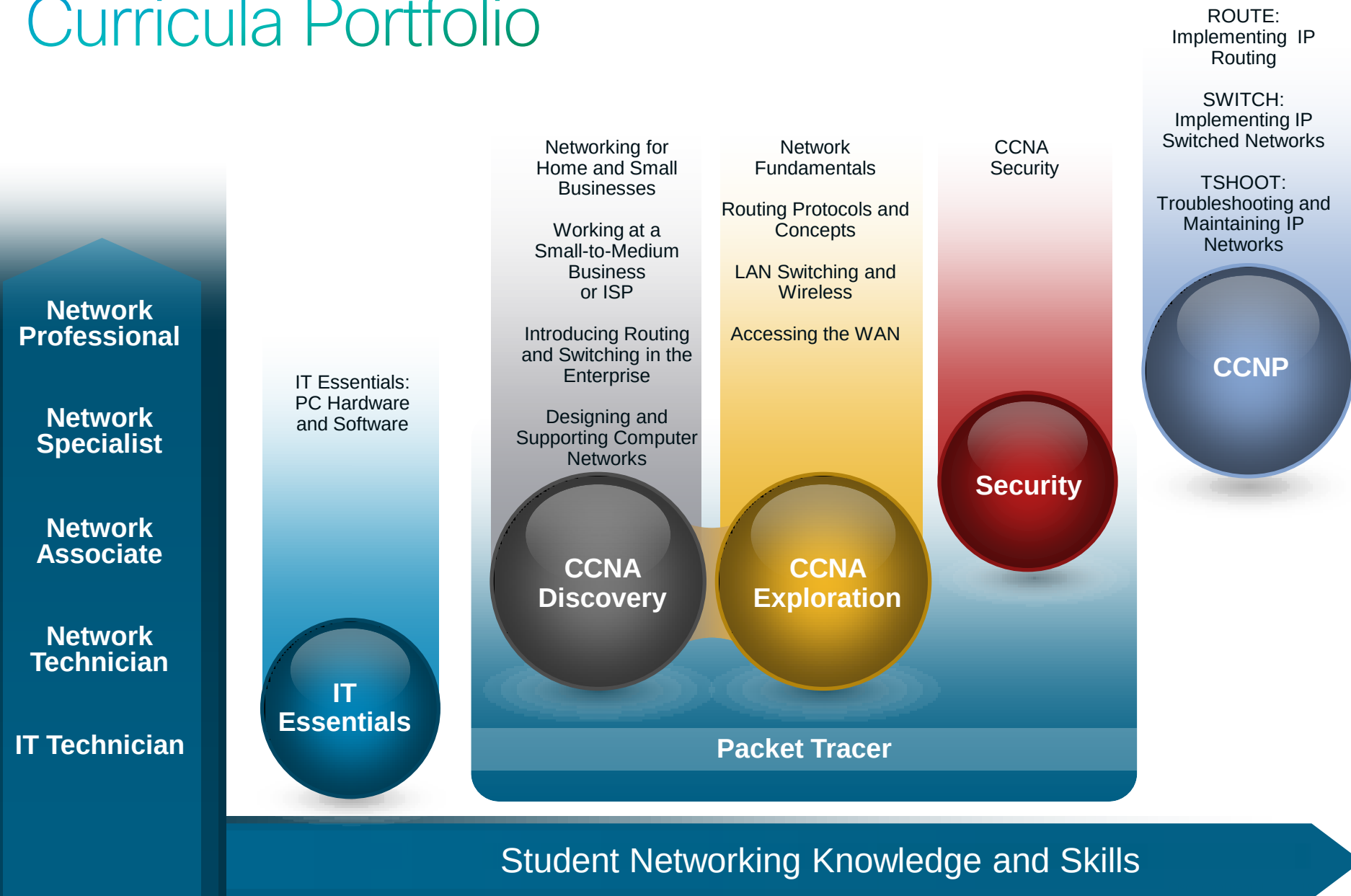
21st Century Skills and Applied Practice



Innovative Curricula and Assessments



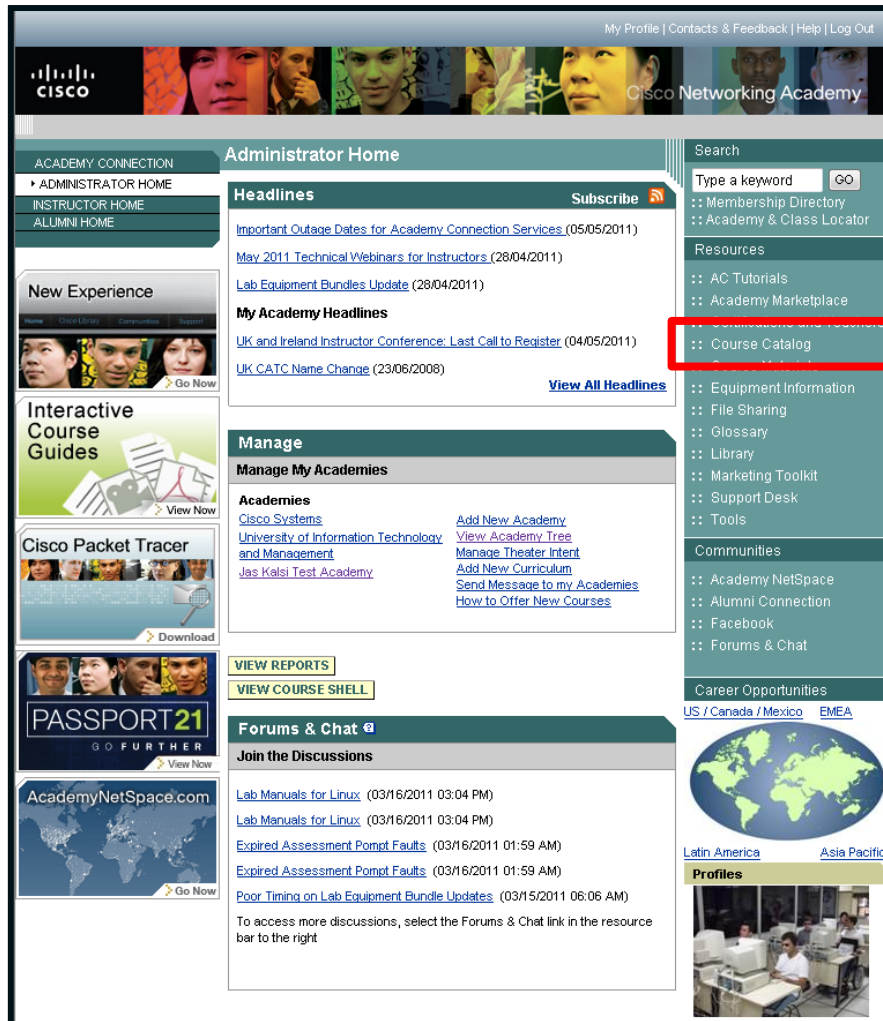
Cisco Networking Academy Curricula Portfolio



What is available &
Where from?



Course Catalogue



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New Experience

Interactive Course Guides

Cisco Packet Tracer

PASSPORT21

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To access more discussions, select the Forums & Chat link in the resource bar to the right

Search

Type a keyword

- Membership Directory
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Resources

- AC Tutorials
- Academy Marketplace
- Course Catalog**
- Equipment Information
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- Academy NetSpace
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Course Catalogue




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Library
Course Catalog
IT Essentials : PC Hardware and Software
CCNA Discovery
CCNA Exploration
CCNA Security
CCNP
Accessibility
Assessment
Cisco Packet Tracer
Cisco Passport21
CCNA Servers

CCNA Security

CCNA Security provides a next step for individuals who want to enhance their CCNA-level skill set and help meet the growing demand for network security professional. The curriculum provides an introduction to the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices. CCNA Security helps prepare students for entry-level security career opportunities and the globally recognized Cisco CCNA Security certification.

This course is a hands-on, career-oriented e-learning solution with an emphasis on practical experience to help students develop specialized security skills, along with critical thinking and complex problem solving skills.

CCNA Security is a blended curriculum with both online and classroom learning. Students who enroll in CCNA Security are expected to have CCNA-level networking concepts knowledge and skills, along with basic PC and Internet navigation skills.

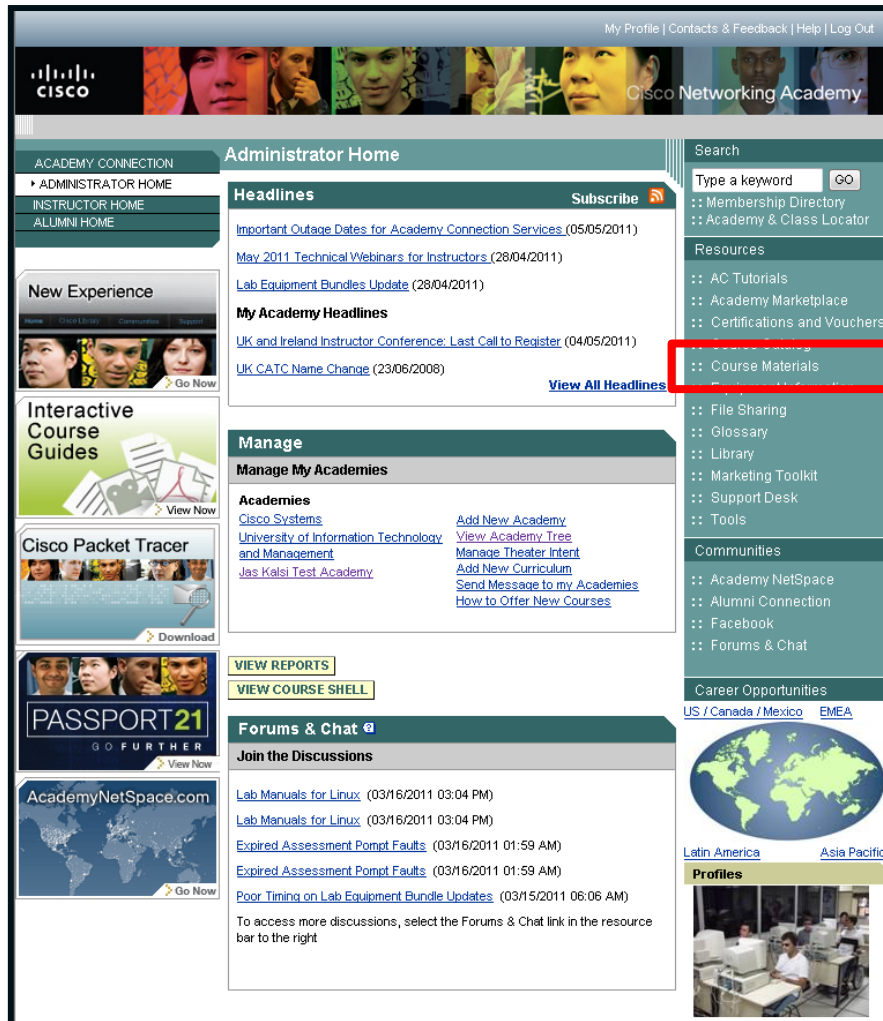
While there are no required course prerequisites, students are encouraged to complete the CCNA Discovery or CCNA Exploration curricula to acquire the fundamental CCNA-level routing and switching skills needed for success in this course. CCNA Security provides a next step for CCNA Discovery or CCNA Exploration students who want to expand their CCNA-level skill set to prepare for a career in network security.

Title	Document Type
At A Glance	 (PDF - 347 KB)
Datasheet	 (PDF - 575 KB)
Scope and Sequence	 (PDF - 127 KB)
FAQ	 (PDF - 105 KB)
Overview Presentation	 (PPT - 3.8 MB)
CCNA Security Chapter Demo	
CCNA Security Training Centers	 (PDF - 57 KB)
US and Canada CCNA Security Instructor Training Information	

The CCNA Security Discussion Forum provides access to the global instructor community for questions, discussions, and sharing best practices:

- [CCNA Security Community](#)

Course Materials



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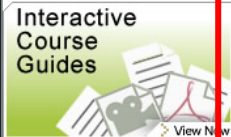

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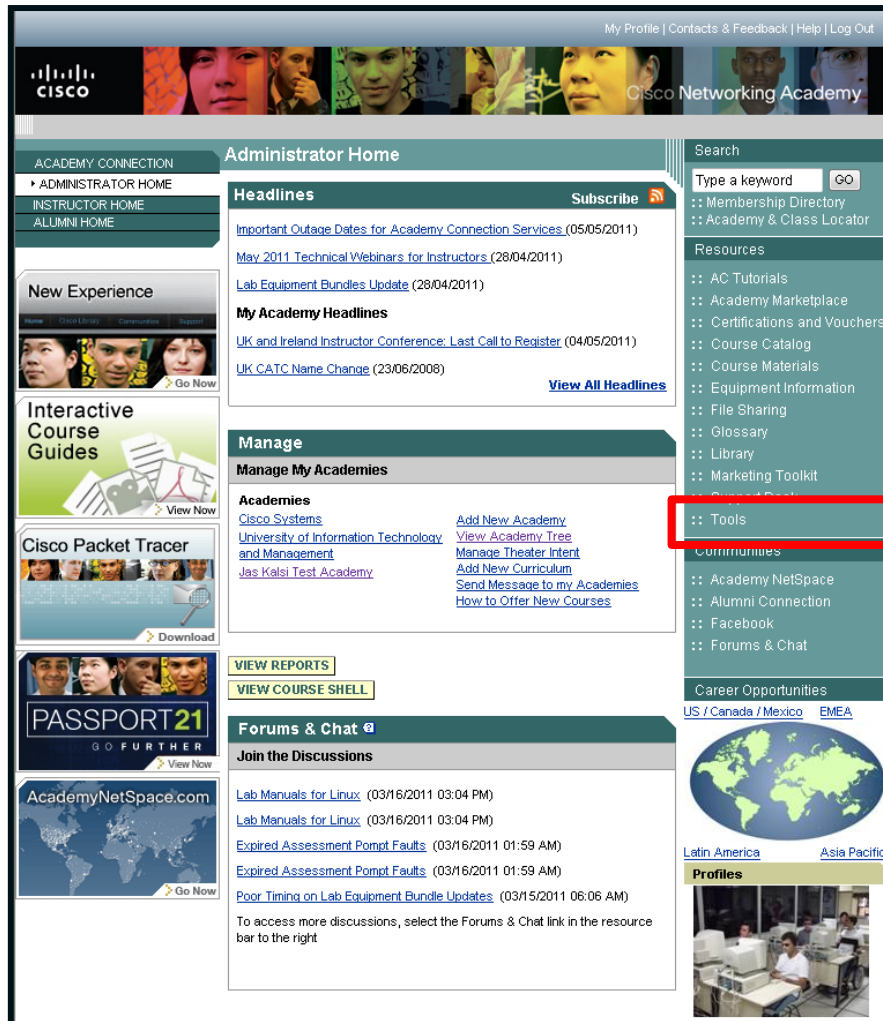
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Course Materials

Course - Version	Type	View [Last Updated]	Available Downloads [Last Updated] 
English			
CCNA Security - 1.0	Instructor	Launch [21/07/2010]	Info on Instructor Resources [17/09/2007]
	Student	Launch [21/07/2010]	Download ZIP File - Windows [21/07/2010] Download ZIP File - Linux [21/07/2010]

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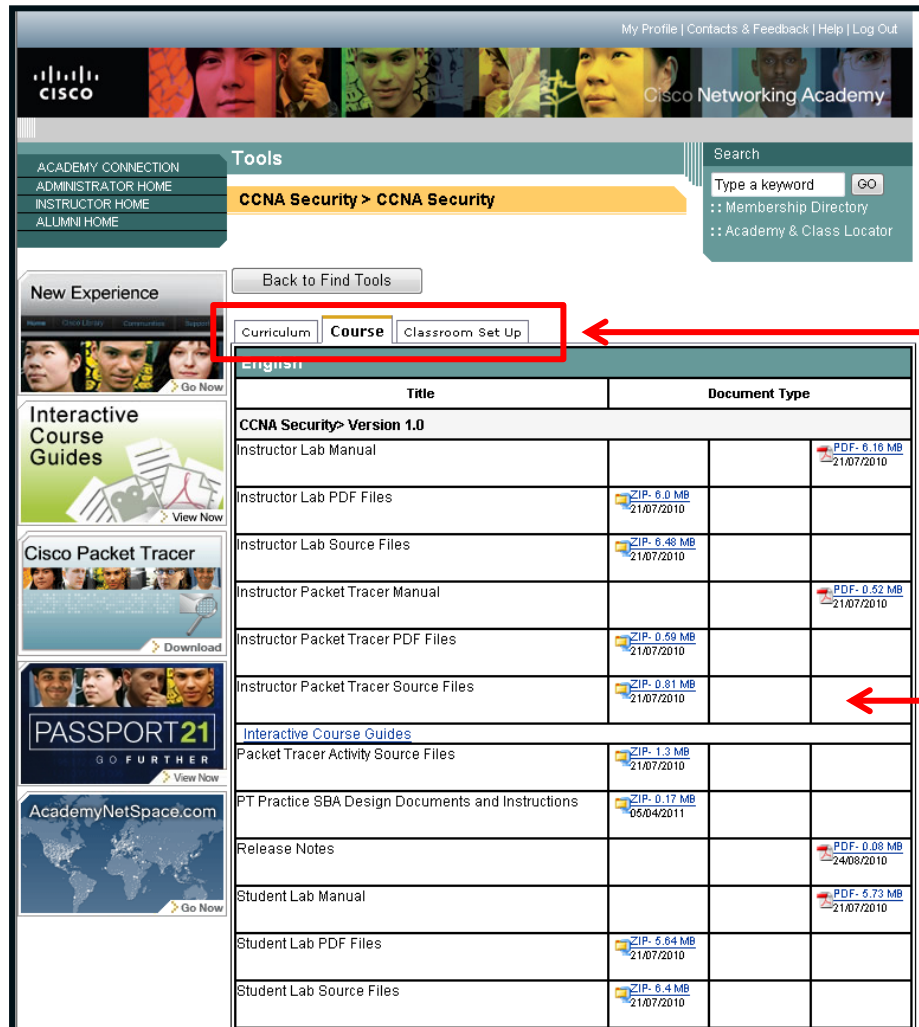
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Tools

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Curriculum **Course** Classroom Set Up

Title	Document Type
CCNA Security Version 1.0	
Instructor Lab Manual	PDF - 6.16 MB 21/07/2010
Instructor Lab PDF Files	ZIP - 6.0 MB 21/07/2010
Instructor Lab Source Files	ZIP - 6.48 MB 21/07/2010
Instructor Packet Tracer Manual	PDF - 0.52 MB 21/07/2010
Instructor Packet Tracer PDF Files	ZIP - 0.59 MB 21/07/2010
Instructor Packet Tracer Source Files	ZIP - 0.81 MB 21/07/2010
Interactive Course Guides	
Packet Tracer Activity Source Files	ZIP - 1.3 MB 21/07/2010
PT Practice SBA Design Documents and Instructions	ZIP - 0.17 MB 05/04/2011
Release Notes	PDF - 0.08 MB 24/08/2010
Student Lab Manual	PDF - 5.73 MB 21/07/2010
Student Lab PDF Files	ZIP - 5.84 MB 21/07/2010
Student Lab Source Files	ZIP - 6.4 MB 21/07/2010

Toggle between the various tabs

Downloadable documents, videos, software, etc. for CCNA Security

Curriculum & Major Changes



ITE Windows 7 Update

- CompTIA has updated its A+ exams with Windows 7 content
 - New content was added to both A+ exams from Jan 2011
 - There will be a new certification exam in 2012
- Networking Academy has supplemented ITE v4.1 with new Windows 7 learning materials
 - Windows 7 PDF with content & screenshots - December 20, 2010
 - Windows 7 exam form - December 20, 2010
 - Lab updates - March 2011
- Content is posted on the instructor and student class home pages, available in English only.

CCNA; CCNA Security; CCNP

- CCNA Discovery & Exploration
 - No major changes to course content!
- CCNA Security
 - Positioning: follow on from CCNA (Routing & Switching knowledge)
 - Delivery mechanism: ILT; Online Curriculum/Assessments; Hands-on practical
 - Equipment: CCNA Security Bundles; Upgrade options also available
 - Training: In-person; BDL; 100% remote (recommended 70 hour course)
 - NetLab & Packet Tracer facilitation
 - Note: SDM to become EOL - Cisco CCP replacement
- CCNP
 - Delivery mechanism has changed (no online curriculum)
 - 3 courses (ROUTE; SWITCH; TSHOOT)
 - Wireless content minimized; hence wireless devices removed from bundles

Proposed EOL Dates: ITE II & PNIE

Course Curricula	EOL Announcement	End of Offering (EOO)		End of Support (EOS)	End of Availability (EOA)
		Last Class Start Date	Last Class End Date		
ITE II	9-Dec-10 or 16-Dec-10	31-Jan-11	31-Jul-11	31-Jul-11	31-Jul-11
PNIE	9-Dec-10 or 16-Dec-10	31-Jan-11	31-Jul-11	31-Jul-11	31-Jul-11

- **Note:** Unsupported announcement for ITE II & PNIE was sent 31-Aug-08

EOL Milestones

End-of-Life Announcement

End of Offering (EOO)

End of Support (EOS)

End of Availability (EOA)

Definitions

Date when end-of-life milestones are announced and academies are notified

Last dates for starting and ending new student and instructor classes

Last date to receive Help Desk support related to curriculum or course maintenance

The date all content is removed from Academy Connection.



NetAcad Equipment IOS 15



Equipment Bundles

- Changes to our Networking Academy Bundles:
 - CCNA – replacement of ISR routers
 - CCNA Security – replacement of ISR routers
 - CCNP – replacement of ISR routers
 - IPT – removal of all bundles
 - NetLAB – replacement of ISR routers
- End-of-Life announcement received
 - Affected devices: 1800 & 2800 series routers.
- New bundles are NOW available!
- Current bundles remain compatible so continue any purchases.
- EOL date: 31st October 2011 for the 1800/2800 series.

Proposed ISR G2 Devices

- CCNA; CCNP; & NetLab bundles will be subject to the following changes:
 - The CISCO1841 device is replaced with the [CISCO1941/K9](#) device.
 - The CISCO2801 device is replaced with the [CISCO2901/K9](#) device.
 - The CISCO2811 device is replaced with the [CISCO2911/K9](#) device.

- CCNP; & CCNA Security bundles will be subject to the following changes:
 - The CISCO1841-HSEC/K9 device is replaced with the [CISCO1941-SEC/K9](#).
 - The CISCO2801-HSEC/K9 device is replaced with the [CISCO2901-SEC/K9](#).
 - The CISCO2811-HSEC/K9 device is replaced with the [CISCO2911-SEC/K9](#).

IOS 15

- Advantages:

- Latest IOS supporting up-to-date features
- Provides greater control and accountability of use/distribution
- One IOS (Universal Image)
- Licenses required to open up features

- Disadvantages:

- Devices with IOS 15 are not backward compatible (locked down)
- Requires some resolution to be included with NetAcad Maintenance
- Universal image may be memory hungry (currently being tested)

- All new devices (1900/2900) will be shipped with IOS 15

- NetAcad Maintenance???



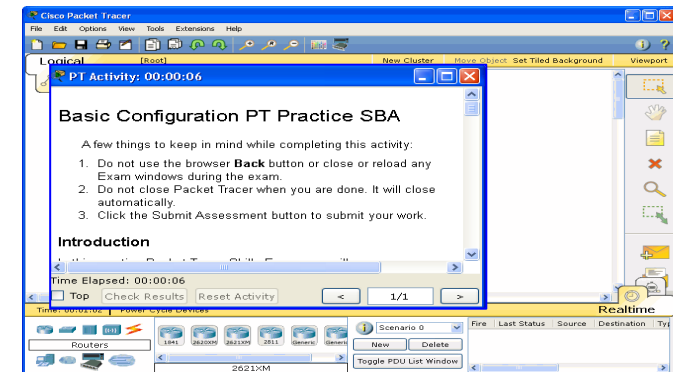
Packet Tracer SBA's



Packet Tracer Skills Based Assessments



- New type of formative performance assessment.
 - Helps students who are preparing for final hands-on SBA's.
- Packet Tracer SBA environment presents:
 - Complex & Authentic Tasks
 - Immediately scores the exam
 - Provides rich detailed feedback
 - Integrated into the gradebook
 - Simple activation
- Software requirements:
 - Packet Tracer v5.2.1 as a minimum
 - Java version 1.6 or higher



The SBA Experience



Feedback

Based on your performance on this assessment covering similar networking skills. The estimate is based on how well you successfully perform these networking tasks.

Performance Components

- [Device Connection](#)
- [IP Addressing Design and Configuration](#)
- [Basic Device Configuration](#)
- [Verification and Troubleshooting](#)

See [Terminology](#) section for an explanation of the assessment components.

Scoring

Total Points Possible = 100
Total Earned Points = 69

Performance Component: Device Connection

Description: The student can connect network devices and hosts for both LAN and WAN access. The student can establish a console connection and navigate the IOS.

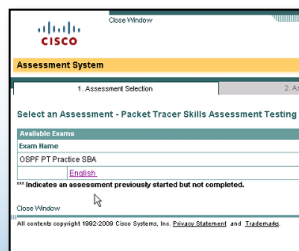
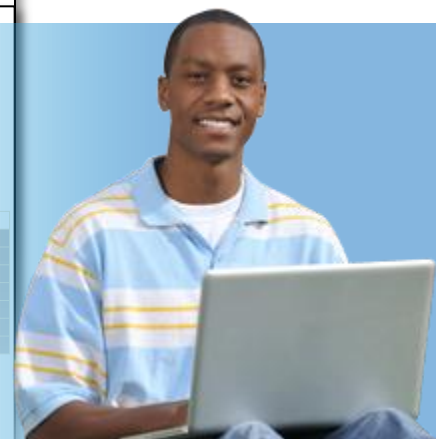
Maximum Points = 6
 Earned Points = 6

Work Product Feature	Student Result	Points
Device Connection		6
PC1 to Switch1 Connection		2
Network: PC1: Ports: FastEthernetLink to Switch1: Type	Correct	
Switch1 to Router1 Connection		2
Network: Router1: Ports: FastEthernet0/0: Link to Switch1: Type	Correct	
Switch2 to Router1 Connection		2
Network: Router1: Ports: FastEthernet0/1: Link to Switch2: Type	Correct	

Performance Component: IP Addressing Design and Configuration

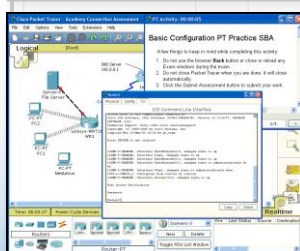
Description: The student can subnet a given address space based on given set of requirements. From the student's subnetting scheme, the student can assign valid IP addresses to hosts and networking devices.

Maximum Points = 42
 Earned Points = 22



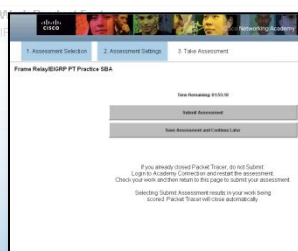
Launch

1



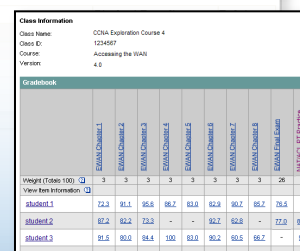
Take Exam

2



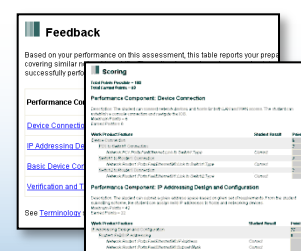
Submit It

3



Automatically Scored

4



View Feedback

5

SBA Detailed Feedback

Proficiency Estimates

Feedback

Based on your performance on this assessment, this table reports your preparedness for taking a test and successfully perform these networking tasks on a repeatable basis.

Performance Components	Proficiency Estimates			
	None	Novice	Partial	Proficient
Device Connection				✓
Basic Device Configuration			✓	
Trunk Configuration				✓
VTP and VLAN Configuration				✓
VLAN Access Configuration			✓	
Spanning Tree Configuration	✓			
Inter-VLAN Routing Configuration				✓
Port Security		✓		
WLAN Implementation	✓			

See [Terminology](#) section for an explanation of terms.

The following feedback summarizes why you received less than proficient on any of the estimates

Detailed Scoring Feedback

Scoring

Total Points Possible = 100

Total Earned Points = 69

Performance Component: Device Connection

Description: The student can connect network devices and hosts for both LAN and WAN access. The student can establish a console connection and navigate the IOS.

Maximum Points = 6

Earned Points = 6

Work Product Feature	Student Result
Device Connection	
PC1 to Switch1 Connection	
Network:PC1:Ports:FastEthernet:Link to Switch1.Type	Correct
Switch1 to Router1 Connection	
Network:Router1:Ports:FastEthernet0/0:Link to Switch1.Type	Correct
Switch2 to Router1 Connection	
Network:Router1:Ports:FastEthernet0/1:Link to Switch2.Type	Correct

Performance Component: IP Addressing Design and Configuration

Description: The student can subnet a given address space based on given set of requirements. From the subnetting scheme, the student can assign valid IP addresses to hosts and networking devices.

Maximum Points = 42

Earned Points = 22

Work Product Feature	Student Result
IP Addressing Design and Configuration	
Router1 Fa0/0 IP Addressing	
Network:Router1:Ports:FastEthernet0/0:IP Address	Correct
Network:Router1:Ports:FastEthernet0/0:Subnet Mask	Correct
Network:Router1:Ports:FastEthernet0/0:Power	Correct

Summary

- Changing Trends
- Passport 21
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Thank you.

