

The New CCNA Routing and Switching Curriculum

1st June 2013

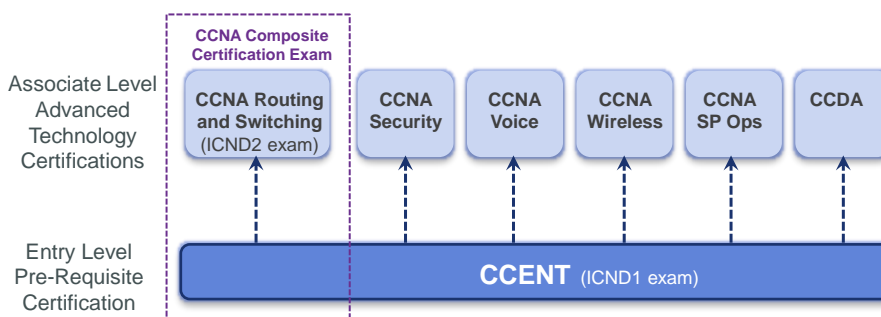
練沛強 Joseph Lin

— 思科大中華區公共事務部總監

— Regional Manager, Greater China, Corporate Affairs

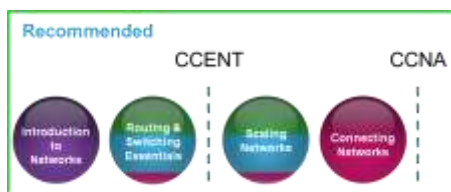


Redesigned Cisco CCNA Certifications



- **CCENT** is the new pre-requisite certification for advanced technology certifications
- CCNA Routing and Switching *retains a single exam option*, **CCNA Composite**
- NetAcad CCNA Routing and Switching curriculum aligns to the redesign of the Cisco CCENT and CCNA Routing and Switching certification exams

What Does This Mean?



- These 4 courses provide
 - **Best response to industry skills demand research**
 - **Provides Students more options to specialize skills to ICT job market skills demand in Security, Voice, Wireless**



- These 3 courses
 - **Provide transition time to support institution administrative processes**
 - **Will be retired 1 year after all new courses are released (Nov 2014)**
 - **Will be in English only—not translated**

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 5

Top-of-Minds for Instructors

- Why develop and release “the other 3 courses” if they will be EOL’ed by the end of 2014?
 - Provide adequate transition time for CCNA Exploration
- Will NetAcad consider extending the EOL date of the old CCNA certification because it would solve the transition problems for many academies?
 - The Sep-30 date can not be extended
 - We do have a plan to support the instructor and student during this transition

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 6

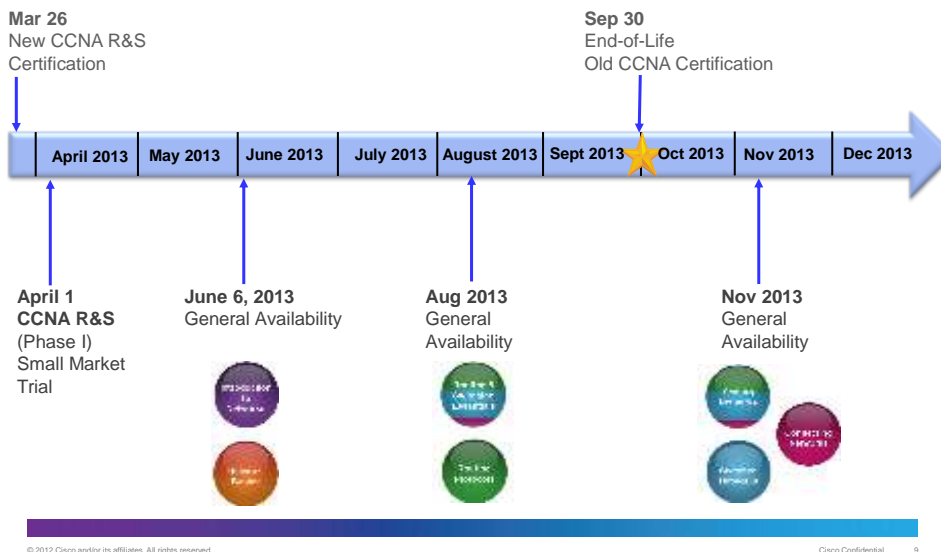
Top-of-Minds for Instructors

- What are the mappings between CCNA Exploration courses and the recommended path?
 - CCNA R&S curriculum is still a set of 4 course – each course covers 70 hours of instructional materials – and is aligned with the CCNA R&S certification
 - New materials added are less than 20% percent of the new curriculum
 - The instructional flows are different in the second and third course to align to CCENT certification
 - Review the DRAFT Scope and Sequence document for more details
- What are the training plan for instructors – content, timing, how?
- How long do I (as an instructor) need to train to catch up on the new curriculum?
- How long would I need to teach the students to cover supplementary materials?

Timeline



CCNA Routing and Switching Timeline



Small Market Trial (SMT) – Phase II

- Virtual participation
- When: June 10 - 23
- What: 2 courses
Routing and Switching Essentials
Routing Protocols
- Actively recruiting SMT Reviewers
- Release in August



SMT Contact: Thanh Le, CCNA Product Manager, thanhl@cisco.com
Please Provide: Location of Academy, Academy ID, and preferred E-Mail during SMT

CCNA Translation and EOL Milestones

Milestones for CCNA Routing and Switching	
English General Availability	1 st courses June 6, 2013
Translation Plans	Translate 4 recommended courses – 6-9 months after English courses are available

CCNA Routing and Switching Certification
CCENT (ICND1) and CCNA Routing and Switching (ICND2) exams are only available in English and Simplified Chinese

CCNA Discovery / CCNA Exploration End of Life
<ul style="list-style-type: none"> • Target to retire all CCNA Discovery and Exploration English courses November 2014 • Target for translated CCNA Discovery and Exploration courses is 1 year after all new CCNA R&S translated courses are available in each language

Transitioning to CCNA Routing and Switching



Certification Exam Changes

New in ICND1 Exam	New in ICND2 Exam
Introducing Basic IPv6	Troubleshooting VLAN Connectivity
Understanding IPv6	Understand Spanning Tree Protocol
Configuring IPv6 Routing	Understand and configure Etherchannel
Implementing VLANs and Trunks	Understand Layer 3 Redundancy Protocols
Routing Between VLANs	Troubleshooting IPv4 Network Connectivity
Implementing single area OSPF	Troubleshooting IPv6 Network Connectivity
Managing Traffic Using Access Control Lists (ACLs)	Implementing EIGRP
Implementing Variable-Length Subnet Masks (VLSM)	Troubleshooting EIGRP
Scaling the Network with Network Address Translation (NAT) and Port Address Translation (PAT)	Implementing EIGRP for IPv6
	Multi-area OSPF IPv4 Implementation
	Understanding and configuring OSPFv3
	Understanding and configuring clients for SNMP, Syslog, and Netflow
	Managing Cisco devices
	Understanding and verifying Cisco licensing

Grayed out topics mostly covered in CCNA Discovery and Exploration

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 13







Networking Academy Certification Recommendations

- If students are finishing CCNA D2, D4 or E4 today
 - Study and take the old certification by September 30, 2013
 - Employers and Cisco do not differentiate between old and new CCNA certification
 - But remember ... students need to know these topics when renewing their certification in three years
- If students cannot take the old CCNA certification exam by September 30, 2013
 - Additional topics to learn ... means they can do more
 - Technologies are evolving and everyone is expected to know more
 - Students need to know these topics when renewing their certification in three years

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 14

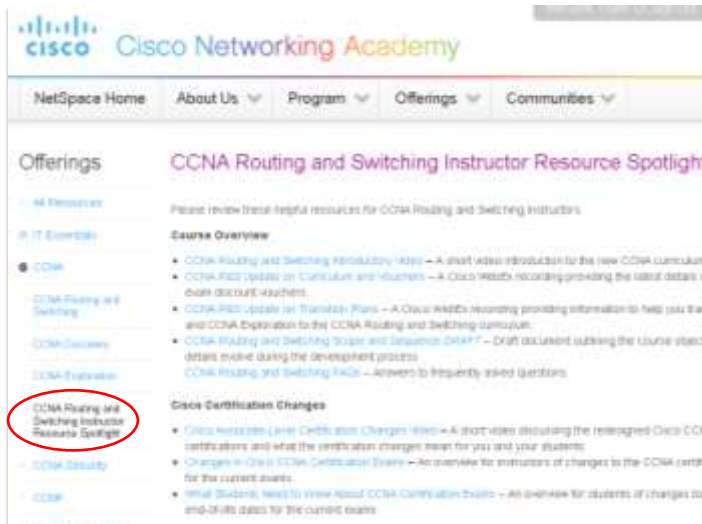
Transitioning to CCNA R&S Curriculum

Planning Resources	Instructor Training	Transitioning Materials
<ul style="list-style-type: none"> • Scope and Sequence  • Certification Exams Delta document  • FAQs  • Instructor Resource Spotlight  • Preview CCNA R&S courses • Release Notes 	<ul style="list-style-type: none"> • “Are You Ready?” activity  • New Certification Exam Topics Virtual Training Sessions • CCNA R&S Curriculum Virtual Training Sessions for Instructor Trainers 	<ul style="list-style-type: none"> • Recommendations on how to move to new courses • Supplemental materials to bridge student knowledge gap • Community support <p> Available now</p>

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 15

Spotlight—One place to access all Transitioning Information



The screenshot shows the Cisco Networking Academy website. The navigation bar includes 'NetSpace Home', 'About Us', 'Program', 'Offerings', and 'Communities'. The main content area is titled 'Offerings' and features a section for 'CCNA Routing and Switching Instructor Resource Spotlight'. Under the 'Offerings' list, the link 'CCNA Routing and Switching Instructor Resource Spotlight' is circled in red. The main content area contains a 'Course Overview' section with several bullet points and a 'Cisco Certification Changes' section with three bullet points.

<https://www.netacad.com/group/offerings/ccna-rs-instructor-resource-spotlight>

© 2012 Cisco and/or its

16

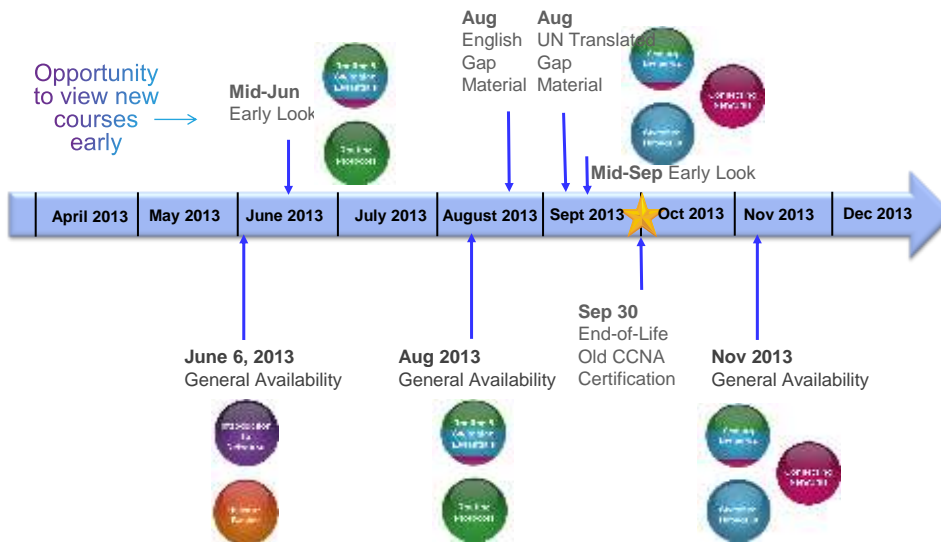
Planning Resources



© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 17

Early Look at CCNA R&S Courses



© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 18

Instructor Training



© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 19

Instructor Training & IPD Opportunities for CCNA R&S Courses

	Instructor Trainers	New Instructors	Existing Instructors
July	 	<ul style="list-style-type: none"> ▪ Training required ▪ Provided by ITCs 	<ul style="list-style-type: none"> ▪ Training strongly recommended
Nov	 		<ul style="list-style-type: none"> ▪ Are You Ready? Activity

Instructor Professional Development (IPD)

- IPv6 self-paced IPD course available now
- New certification exam topics virtual sessions by Cisco – July
- Technology topics resources on Global Instructor Resource (GIR) site

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 20

Transitioning Materials



© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 21

Bridging the Gap for Students



Learning CCNA Discovery and Exploration → Take New Certification Exams

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 22



6 New Certification Exam Topics

- IPv6
- Multi-Area OSPF
- IOS 15 & IOS 15 Licensing
- Layer 3 Redundancy (HSRP)
- Link Aggregation (EtherChannel)
- Network Management: NTP, Syslog, SNMP, and NetFlow

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 23

Supplemental Materials for Students August Availability (English Version)



Topics	Concepts		Practice & Assessments		
	PPTs, Docs	Videos / Recorded Sessions	PT Activities	Final PTSAs	Certification Practice Exams
IPv6	X	X	X	X	X
Multi-Area OSPF	X	X	X		
IOS 15 & IOS 15 Licensing	X	X	X		
Layer 3 Redundancy (HSRP)	X	X	X		
Link Aggregation (EtherChannel)	X	X	X		
Network Management: NTP, Syslog, SNMP, and NetFlow	X	X	X		

- Student self-study; Different learning experience from on-line courses
- Materials will be packaged as a bridging offering and accessed from NetSpace
- Translated PPTs, docs and Recording Sessions – target Aug/Sep availability

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 24









Additional Resources for Self-Study Support

- Cisco Press Cert Guides and Ebooks <http://www.ciscopress.com>
- Cisco Learning Network (CLN) <https://learningnetwork.cisco.com>
- Community created materials

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 25

Recommendations: Transitioning to New CCNA R&S Courses from CCNA Exploration

Completed Teaching	CCNA R&S Course <u>Is Not</u> Available	Next CCNA R&S Course <u>Is</u> Available
CCNA E1	Teach CCNA E2 + Supplement with bridging materials	Transition to Routing & Switching Essentials 
		Identify student knowledge gaps with final PTSA exams from Introduction to Networks 
CCNA E2	Teach CCNA E3 + Supplement with bridging materials	Transition to Switched Networks* or Scaling Networks  
		Identify student knowledge gaps with final & PTSA exams from Routing Protocols* 
CCNA E3	Teach CCNA E4 + Supplement with bridging materials	Transition to Connecting Networks 
		Identify student knowledge gaps with final & PTSA exams from Switched Networks*  

Use personalized feedback to focus instructional or student self-study plans

© 2012 Cisco and/or its affiliates. All rights reserved.

* Will not be translated

Cisco Confidential 26

Recommendations: Transitioning to New CCNA R&S Courses from CCNA Discovery

Completed Teaching	CCNA R&S Course Is Not Available	Next CCNA R&S Course Is Available
CCNA D1	Teach CCNA D2 + Supplement with bridging materials	Transition to Routing & Switching Essentials
		Identify student knowledge gaps with final & PTSA exams from Introduction to Networks
CCNA D2	Teach CCNA D3 + Supplement with bridging materials	Transition to Scaling Networks
		Identify student knowledge gaps with final & PTSA exams from Routing & Switching Essentials
CCNA D3	Teach CCNA D4 + Supplement with bridging materials	Transition to Connecting Networks
		Identify student knowledge gaps with final PTSA exams from Scaling Networks

Use personalized feedback to focus instructional or student self-study plans

© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 27

Keep Up With Latest Info

Visit CCNA Routing and Switching Instructor Resource Spotlight page on Cisco NetSpace:

- Videos introducing the new CCNA curriculum and CCNA certification exams
- Scope and Sequence document
- Current FAQs
- WebEx recording explaining curriculum details
- Certification Exams Delta document
- ... and more



© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 28

Get Started Now

- Take Are you Ready? Activity
- Get familiar with the Scope & Sequence
- Register for training and IPD
- Sign up for Networking Academy Maintenance
 - Free equipment software upgrades
 - [NetSpace > Program > Equipment Information](#)
- Make transition plans with your ASC and articulation partners

The Future of 'Mind Wide Open' Teaching and Learning





© 2012 Cisco and/or its affiliates. All rights reserved.

Cisco Confidential 31

Thank you.

