Cisco Certifications

Imran Qureshi,
CCIE, Manager Learning and Development
CCIE Certification

First Written Exm
First Lab
First Lab Design
First CCIE Lab Pass / Fail
A Changing World Presents New Opportunities

- Education and The network are the great equalizers
- Companies with the best talent are best positioned for sustainable competitive advantage
- Student outcome based education is now possible
- Barriers such as space and time can now be removed
- Cisco leads in executing innovative and comprehensive talent strategies
Network Solutions—New Network Administration Challenges

Role of the Network Grows

- Double Networking Talent by 2012
- Remove knowledge gaps as barriers to deployment
- Enable Cisco, partners, and customers

- Video Convergence
- Web 2.0
- IP Video, TelePresence
- Data Center
- Unified Communications
- Enhanced Security
- Wireless
- Voice Transport
- Telecommuting / VPN
- Ethernet Switching
- Routing

Evolution of the Network

Knowledge Gap

Time
Companies’ demand for dedicated job roles are expected to increase over the next five years.

- **Security:**
  
  Expect increase from 46% dedicated now to 80% in 5 years.

- **Voice:**
  
  Expect increase from 40% dedicated now to 69% in 5 years.

- **Wireless:**
  
  Expect increase from 39% dedicated now to 66% in 5 years.

While Projected Growth in Advanced Technologies Also Increases
Economics of Learning and Certification

- New global economic conditions exist.
- Intense competition requires the **best human capital** for:
  - Greater customer focus
  - Greater productivity per employee
  - Stronger risk management and cost containment
- Employers need to identify and develop talent.
- Individuals need to adapt and enhance their value.
Double Digit Growth in Certified Individuals

- North America/Japan grew 14% while Europe grew 22%
- Emerging grew 40% with Middle East/Africa leading at 42%
- Asia Pac grew overall 27% with India leading at 37%

Data as of September 13, 2010
Behavior Based Learning & Development

- Instructor-Led Training
- Synchronous Training
- Gaming, Lab Simulations
- Customized Consulting Services
- Cisco Learning Network
- Virtual Mentoring
- Accelerated Learning Programs
- Certifications, Formative Assessment Products
- Cisco Press, Digital Libraries
Learning Assets
Create Opportunities
Expanding Cisco Certifications

Career

**Architect:**
Cisco Certified Architect

**Expert:**
- CCIE® R&S, CCIE SP Ops, Storage, SP, Security, Voice, Wireless, and CCDE™

**Professional:**
- CCNP®, CCNP SP Ops, CCIP®, CCSP, CCNP Security, CCNP Voice, CCDP®, and CCNP Wireless

**Associate:**
- CCNA®, CCNA SP Ops, CCNA Security, CCNA Voice, CCNA Wireless, and CCDA®

**Entry:**
- CCENT™

Specialist

- Security
- Unified Communications
- Wireless
- Storage Networking
- Optical
- Advanced Routing and Switching
- Data Center
- Video
- Foundation
Cisco Certified Entry Networking Technician (CCENT)

- Aligned to job roles such as:
  - Help Desk Technician
  - Entry Level Technical Support
  - Junior Network Administrator
- Validates ability to install, operate, configure and verify a basic IP network
- Confirms ability to implement wireless access and mitigate common security threats
- Single exam required (ICND1)
- Tangible, first step towards CCNA

www.ciscolearningnetwork.com
Cisco Certified Network Associate (CCNA)

- Aligned to job roles such as:
  - Network Technician
  - Network Support or Systems Engineer
  - Network Engineer
- Validates ability to configure, implement, verify and maintain a multi-site enterprise network
- Confirms understanding of common security threats and configuration of wireless LANs
- With CCENT: single ICND2 exam is required
- Without CCENT: combo CCNA exam is required (ICND1 and ICND2)
Cisco Certified Network Associate Security (CCNA Security)

- Validates skills in job roles, including:
  - Network Security Support Engineer
  - Security Administrator
  - Network Security Specialist
- Enables installation, monitoring, and troubleshooting of Cisco security technologies for small branch offices
- Confirms ability to implement security policies and mitigate risk in networks
- Is a prerequisite for CCSP certification

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Cisco Certified Network Associate Voice (CCNA Voice)

- Validates skills in job roles, including:
  - Voice Administrator
  - Voice Engineer
  - Voice Manager
- Validates skills in telephony, VoIP infrastructure, and unified communications applications
- Is capable of performing baseline installation, configuration, as well as maintenance tasks on Cisco VoIP solutions
- Is a prerequisite for CCVP certification

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Cisco Certified Network Associate Wireless (CCNA Wireless)

- Validates skills in job roles, including:
  - Network Administrators
  - Wireless Technician and Support Technicians
  - Security Engineer focused on wireless networks
  - WLAN Project Manager
- Confirms ability to configure, implement, and support basic WLANs in SMB and enterprise environments, specifically Cisco equipment
- Is capable of installing, configuring, monitoring, and troubleshooting Cisco WLANs in SMB and enterprise environments
- Is a prerequisite for CCNP Wireless

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Cisco Certified Network Professional Security (CCNP Security)

- CCNP Security is the evolution of CCSP
- Validates skills and is aligned specifically to job roles of the Network Security Engineer
- Confidently uses Cisco security devices and solutions to:
  - Test, deploy, configure and troubleshoot the core technologies that make up the network security.
- Consists of four new exams:
  - SECURE
  - FIREWALL
  - VPN
  - IPS v7.0

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Cisco Certified Network Professional Voice (CCNP Voice)

- CCNP Voice is the evolution of CCVP
- Validates skills and is aligned specifically to job roles of the Voice Network Professional
- Confidently implement, operate, configure and troubleshoot a converged IP network
- Create a transparent, scalable, and manageable telephony solution
- Consists of five new exams:
  - CAPPS v8.0 (replaces QoS)
  - TVOICE (replaces TUC)
  - CVOICE v8.0 (replaces CVOICE v6.0)
  - CIPT1 v8.0 (replaces CIPT1 v6.0)
  - CIPT2 v8.0 (replaces CIPT2 v6.0)
Cisco Certified Network Professional (CCNP)

- Aligned to job roles such as:
  - Network Technician
  - Network Support or Systems Engineer
  - Network Engineer

- Validates ability to plan, implement, verify and troubleshoot local and wide-area networks

- Confirms knowledge needed to work collaboratively with specialists in advanced security, voice, wireless and video

- CCNA is prerequisite

- Three exams required

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Cisco Certified Security Professional (CCSP)

- Validates skills in job roles, including:
  - Senior Network Security Engineer
  - Senior Network Security Operations Engineer
  - Senior Security Analyst
- Confidently uses Cisco security devices and solutions to:
  - Implement and manage comprehensive strategies for risk management, threat mitigation, and security policy compliance
  - Install, configure, manage, troubleshoot, and optimize end-to-end security while delivering required performance
- Meets US 4011/4013 InfoSec training standards
- Has four-exam path:
  - Three required (SNRS, SNAF, and IPS)
  - One elective (SNAA, MARS, or CANAC)
- Program updated and refreshed in August 2008

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Cisco Certified Network Professional Wireless (CCNP Wireless)

- Validates skills in job roles, including:
  - Wireless Engineers
  - WLAN Managers
  - Senior Network Engineers
- Confidently designs, implements, and operates Cisco wireless networks and mobility infrastructures
- Has four-exam path to certification focusing on site surveys, voice networks, mobility services, and wireless security
- Has a prerequisite of CCNA Wireless

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Cisco Certified Design Associate (CCDA)

- Validates skills for job roles, including Network Design Associate
- Determines customer requirements for network performance, security, capacity, scalability, voice integration, and wireless solutions
- Specifies foundation for network infrastructure
- Understands design implications
- Has prerequisites of CCNA and BCMSN-level knowledge
- Has one required exam (DESGN)
- Has emphasis on converged model to support service delivery

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Cisco Certified Design Professional (CCDP)

• Validates skills for job roles, including Network Designer
• Develops intermediate and detailed network design to support intelligent network services
• Meets specific requirements for performance, scalability, and high availability
• Prepares design for voice integration
• Has prerequisites of CCNA and CCDA
• Has three exams: ARCH, BSCI, and BCMSN

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Cisco Certified Design Expert (CCDE)

- Validates skills in job roles, including:
  - Senior Network Designer and Architect
  - Network Lead for Enterprise IT Infrastructure Team
  - Network Lead for Enterprise Architecture Team
- Has no prerequisites, but seven years of experience is recommended
- Has two exams: Qualification and Practical
- Emphasizes network design principles at the routing layer as well as the ability to assess and translate network business requirements into technical designs

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Cisco Service Provider Operations Track

- Built for the growing demand for dedicated professionals who can manage, maintain and troubleshoot complex IP NGN Service Provider (SP) core network infrastructures.
- Developing associate, professional and expert-level capabilities to operate large, complex SP networks.
- Designed for Cisco Service Provider Customers, Partners and internal Network Engineers.

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Cisco Specialist Certifications

- Certifications enhance and validate core knowledge for specific job roles, technology, and product knowledge.
- Many certifications align to requirements for the Channel Partner Specialization program.
- Tracks include Advanced Routing and Switching, Data Center, IP Communications, MeetingPlace, TelePresence, VPN and Security, and Wireless LAN.

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Cisco Certified Internetwork Expert (CCIE)

- Most highly respected IT certification for more than 15 years
- Hands-on lab differentiates CCIE
- More than 20,000 CCIEs worldwide—less than 2% of all professionals who are certified by Cisco
- Demonstrate strong commitment and investment in networking career, life-long learning, and dedication to remaining an active CCIE
- Validates skills in job roles, including:
  - Lead Network Engineer
  - Designer
  - Administrator
CCIE Certifications

- CCIE R&S: Configure and troubleshoot complex converged networks
- CCIE Security: Configure complex, end-to-end secure networks; troubleshoot environments; and anticipate and respond to network attacks
- CCIE Service Provider: Configure and troubleshoot advanced technologies to support service provider networks
- CCIE Service Provider (SP) Operations: Network management and operations of complex networks and network services.
- CCIE Storage: Configure and troubleshoot storage area networks over a variety of interfaces
- CCIE Voice: Configure complex, end-to-end telephony, as well as network, troubleshoot, and resolve VoIP-related problems
- CCIE Wireless: Plan, design, implement, operate, and troubleshoot wireless network and mobility infrastructure

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Cisco Certified Architect

- The highest level of accreditation achievable within the Cisco Career Certification program
- Recognizes the architectural expertise of network designers, and establishes formal validation of design and IT skills in Cisco technologies and infrastructure
- Prerequisite: CCDE
- Meet in-person with an exam committee, appointed by Cisco, to defend a proposed network
- Available since January 2010
Cisco 360 Learning Program

The Only Cisco Authorized Expert Training Program for CCIE Routing and Switching and Voice

- Preassessment ➔ Diagnostic
- Workshops ➔ Classroom
- Library ➔ Reference
- Lessons ➔ E-Learning
- Practice Labs ➔ Exposure
- Assessments ➔ Learning Checks
- Mentoring ➔ SME Coaching

www.cisco.com/go/360
## Cisco 360 Learning Program: Flexible Training Bundle Options

<table>
<thead>
<tr>
<th>À la Carte</th>
<th>Essentials</th>
<th>Preferred</th>
<th>Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preassessment Labs</td>
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<tr>
<td>Practice Lab Workbook</td>
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<tr>
<td>Performance Assessments</td>
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Note: Mentoring services are available exclusively through participating Cisco Learning Partners.
Mobile Labs for CCIE Exams: Green, Mobile, and Global

From Lab Racks  To Virtual Lab
Extending Mobile Lab Testing Around the World: CCIE Routing and Switching and Security

Sites are added and changed often. Please see [https://cisco.hosted.jivesoftware.com/docs/DOC-3224](https://cisco.hosted.jivesoftware.com/docs/DOC-3224) for a complete schedule.
Thank you.