DEVNET

CISCO

Welcome to Webinar Wednesday with Cisco DevNet

The evolution of the Network Engineer Job Role

Antonella Corno
Senior Manager, Learning@Cisco

@CiscoDevNet
#DevNet

About the Webinar

- Ask a question in the Q&A panel, send to All Panelists

- Join the WebEx Audio > Select Communicate > Join Audio

- For a WebEx call back > Click allow phone button at the bottom of participants side panel

- Recording will be sent after the webinar

- Please complete the post-event survey

- Join us for upcoming webinars: http://bit.ly/DevNetWebinarWed

- Join Cisco DevNet, go here > ENTER URL

About the Speaker and Panelist

Antonella Corno

Senior Manager,
Learning@Cisco Product
Strategy

Antonella Corno is the senior manager of product strategy at Learning@Cisco. She actively manages the development of the learning portfolio, overseeing a team that translates information from hardware and software developers to architects of technology training and certification. After spending more than two decades across two continents working in technology research and development for leading Information Technology (IT) firms, Antonella understands the challenges that individuals face when entering, training and updating skills in the IT industry. Antonella works tirelessly to build frameworks for these individuals to enable the learning process.

Antonella is a CCIE Emeritus, has spoken at several international conferences, and holds multiple international patents.

The digital transformation train
has left the station…

"What's behind you **doesn't matter**"

Enzo Ferrari

CISCO

The New Digital Business

IDC

Transform Processes
and Business Models
———————
Innovation
Faster Time to Market

Empower Workforce
Efficiency and Innovation
———————
Increased Productivity
Better Retention
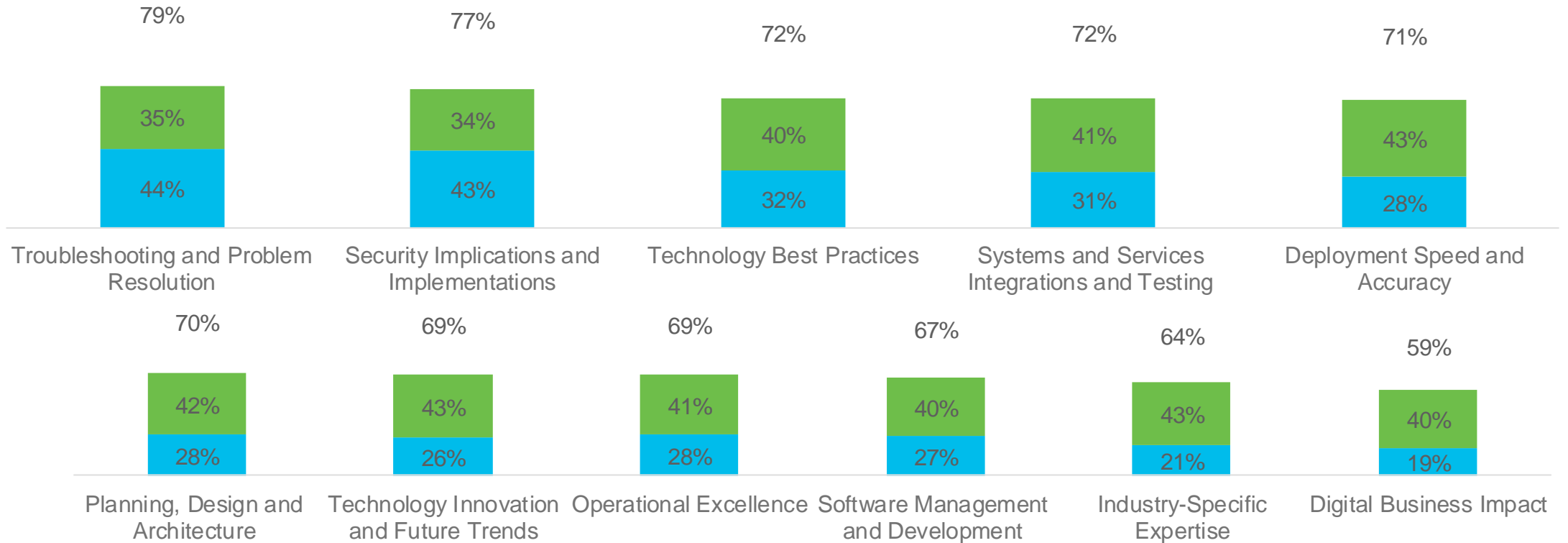
Personalize
Customer Experience
———————
Increased Loyalty
Greater Insight

Digitization impacts your organization and your job role

The Hiring Manager Perspective
## Which skills are most valued?

Troubleshooting and Problem Resolution — 79%
- Critical: 44%
- Important, but not critical: 35%

Security Implications and Implementations — 77%
- Critical: 43%
- Important, but not critical: 34%

Technology Best Practices — 72%
- Critical: 32%
- Important, but not critical: 40%

Systems and Services Integrations and Testing — 72%
- Critical: 31%
- Important, but not critical: 41%

Deployment Speed and Accuracy — 71%
- Critical: 28%
- Important, but not critical: 43%

Planning, Design and Architecture — 70%
- Critical: 28%
- Important, but not critical: 42%

Technology Innovation and Future Trends — 69%
- Critical: 26%
- Important, but not critical: 43%

Operational Excellence — 69%
- Critical: 28%
- Important, but not critical: 41%

Software Management and Development — 67%
- Critical: 27%
- Important, but not critical: 40%

Industry-Specific Expertise — 64%
- Critical: 21%
- Important, but not critical: 43%

Digital Business Impact — 59%
- Critical: 19%
- Important, but not critical: 40%

■ Critical   ■ Important, but not critical

PSOC

The Learner Perspective
Accelerating Job Responsibilities (by Certification Level)

Accelerating Job Responsibilities
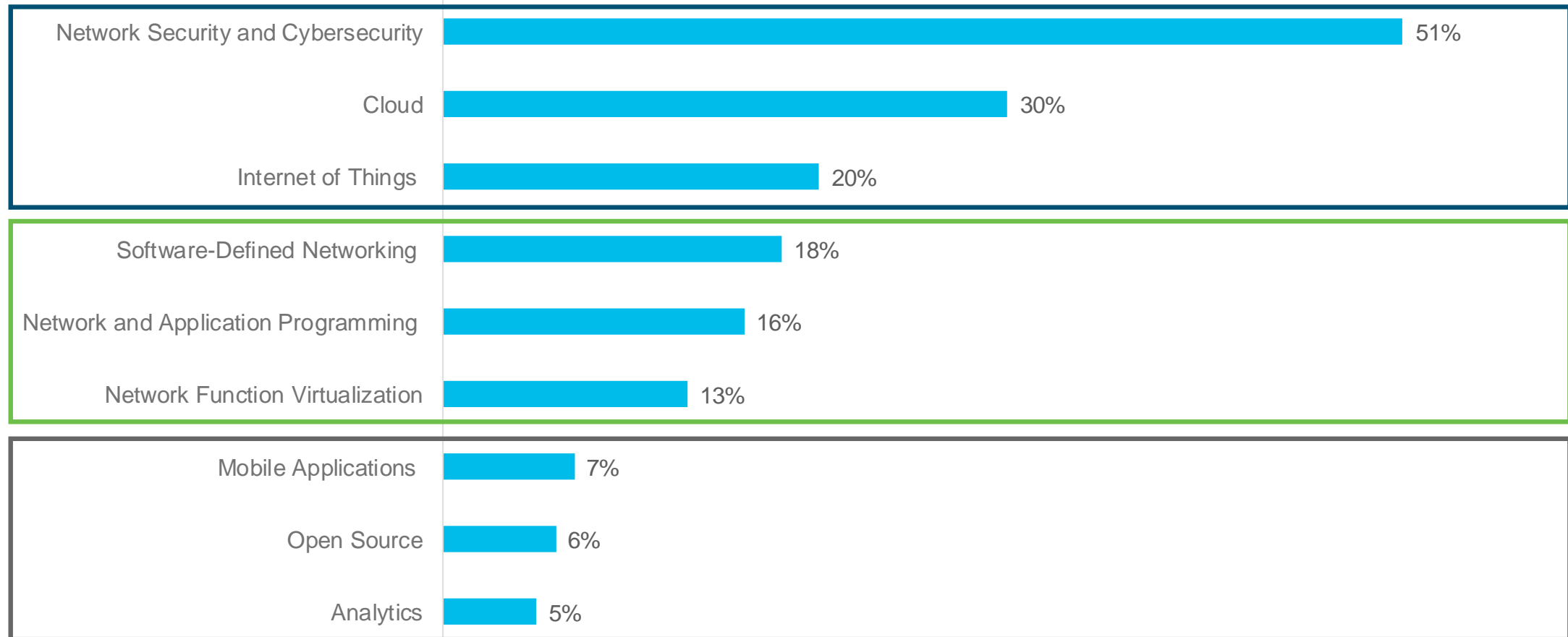% of respondents (n=7397)
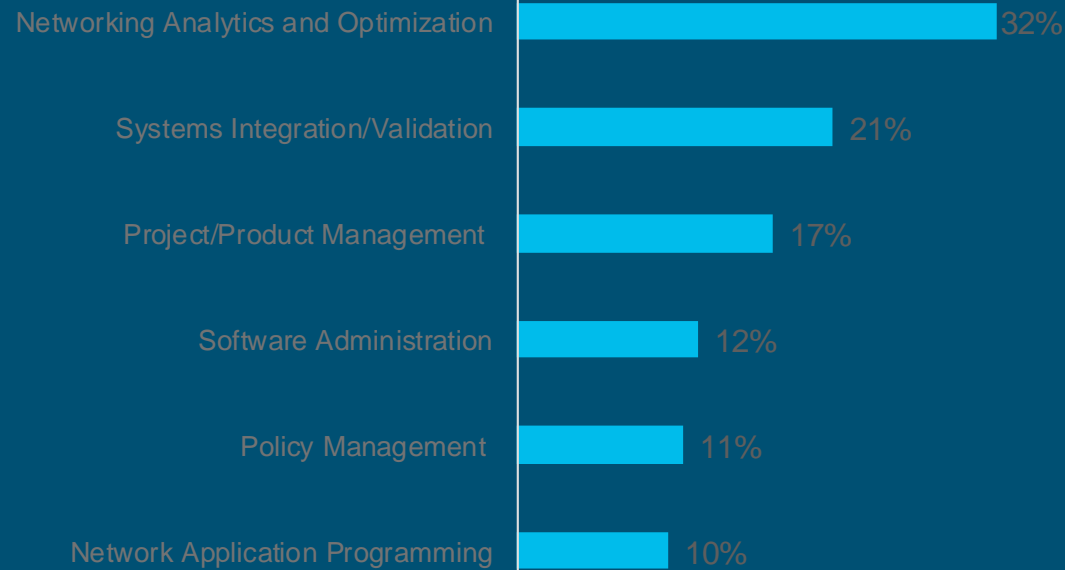
	CCENT	CCNA	CCNP	CCIE
Networking Analytics and Optimization — 32%	22%	30%	38%	36%
Systems Integration/Validation — 21%	19%	19%	24%	30%
Project/Product Management — 17%	17%	15%	19%	20%
Software Administration — 12%	20%	15%	10%	4%
Policy Management — 11%	9%	11%	13%	10%
Network Application Programming — 10%	9%	10%	10%	10%

The Learner Perspective
Evolving Technical Priorities

Category	Percentage
Network Security and Cybersecurity	51%
Cloud	30%
Internet of Things	20%
Software-Defined Networking	18%
Network and Application Programming	16%
Network Function Virtualization	13%
Mobile Applications	7%
Open Source	6%
Analytics	5%

Our Perspective

Digital Transformation Requires a Breadth of Skills

Evolution of the Network Engineer in the Digital Era

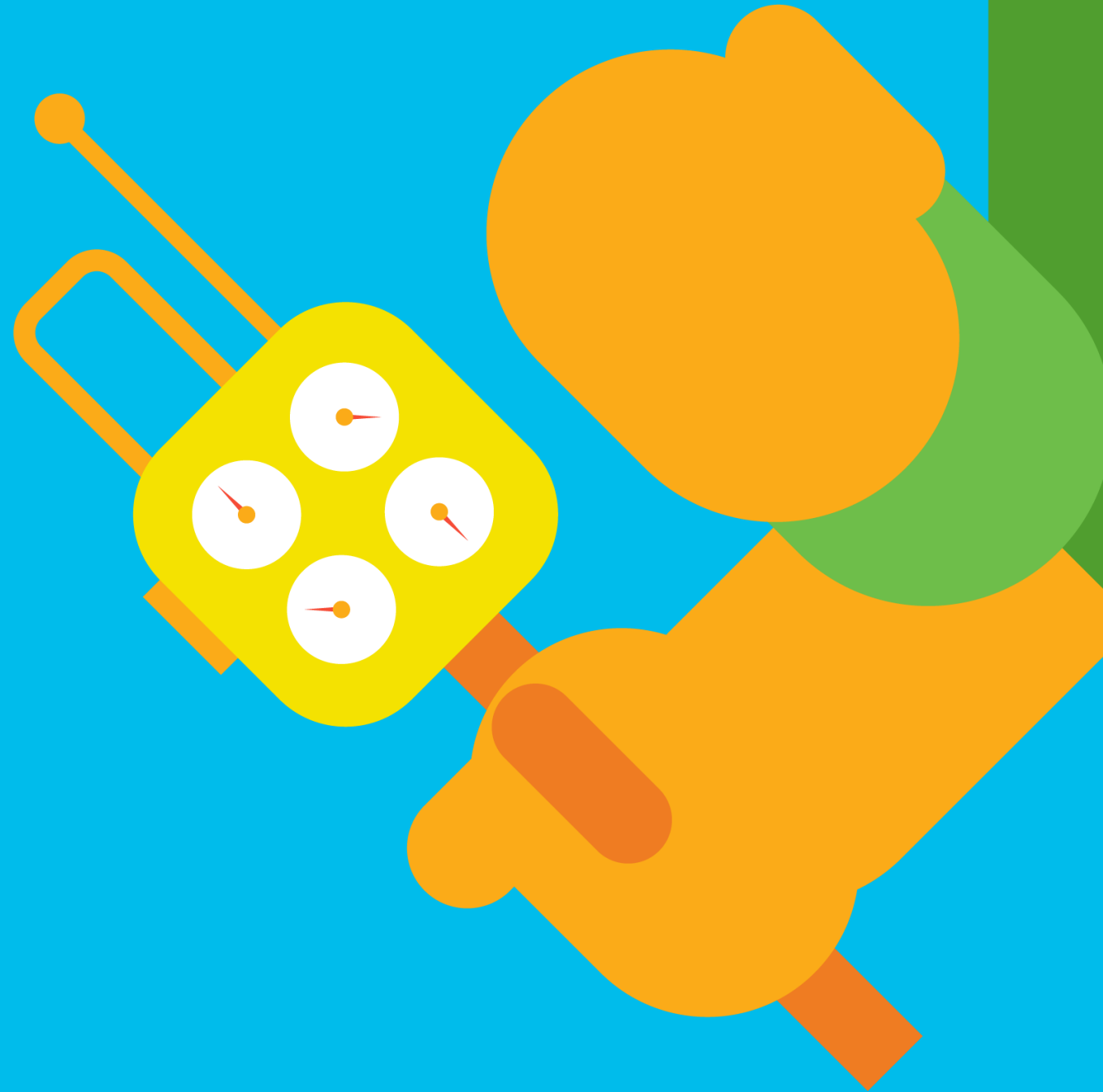| |
|---|
| # of sites/devices |
| Network reliability |
| Budget control |
| Deploy times, accuracy |
| Hardware longevity |
| Service continuity |
| IT interactions/influence |
| Individual contribution |
| Focused network controls |
| New hiring approaches |
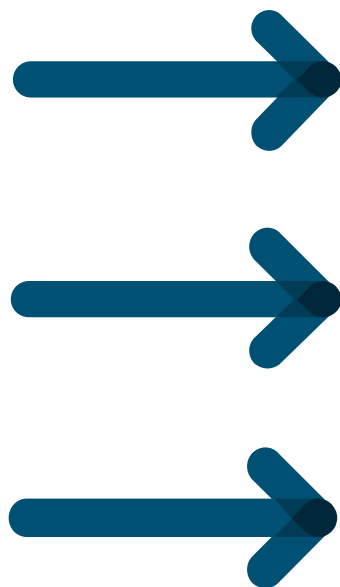
# of projects/programs
Network readiness
Business outcomes
Design scope, excellence
Software velocity
Service creation
Line of business impact
Team contribution
Full-spectrum cybersecurity
Business/technology matchmaker

Design is a Top Job Responsibility

Network and Device Configurations	62%
Troubleshooting and Problem Resolution	55%
Planning, Architecture and Design	35%
Networking Analytics and Optimization	18%
Hardware Deployments	16%
Security Management	13%
Continuous Operations	7%
Systems Integration/Validation	6%
Project/Product Management	5%
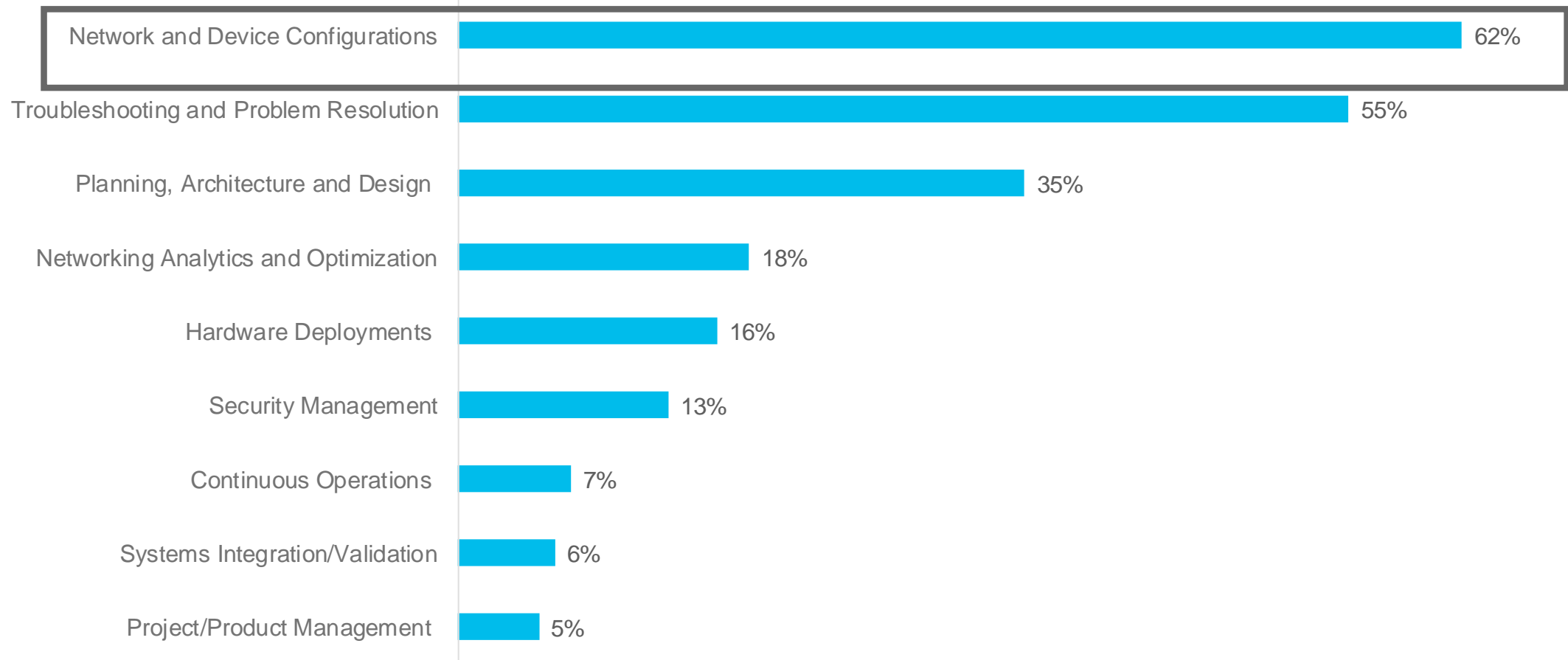
We're evolving our portfolio to meet your needs

We're Changing the Way We Train…

- **Modernize**: flexible curricula, hybrid job roles, incremental skills through microcredentialing, recertification strategy, trainings progression

- **Innovate**: Digitization end-to-end of the business, fully integrated products

- **Streamline**: Easy of doing business, fast customization of products

- **Renovate**: Shrink refresh cycle through modularization, Portfolio redesign (*not refresh*…)
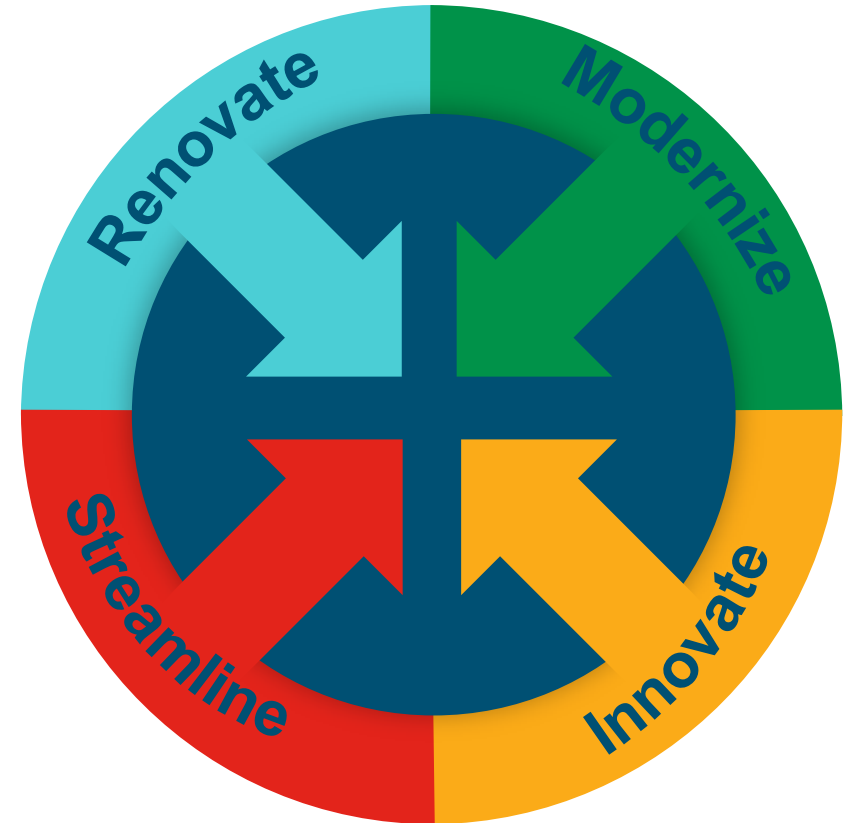
Upskilling our 3 Million Strong and Growing Cisco Certified Community

Introducing New Digital Skills Curriculum

- Digital Network Architecture
- Software Defined Access
- Data and Analytics
- Network Programmability
- Security
- Business Skills
- Customer Success

Evolving our Certifications Portfolio

- Architect
- CCIE
- CCNP
- CCNA
- CCENT

- CCNA CyberSecurity
- CCNA/CCNP Cloud
- Network Programmability
- Enterprise IT Business Specialist
- DC Track Redesign
- CCIE Next Gen

Expanding Learning Options

Virtual Labs | Learning Libraries | Social Platforms | Custom Training | Continuing Education

Cisco DNA & SD-Access Trainings

Move to a secure and automated network with ease and confidence

DNA Implementation Essentials

Learn best practices in deploying SD-Access solutions

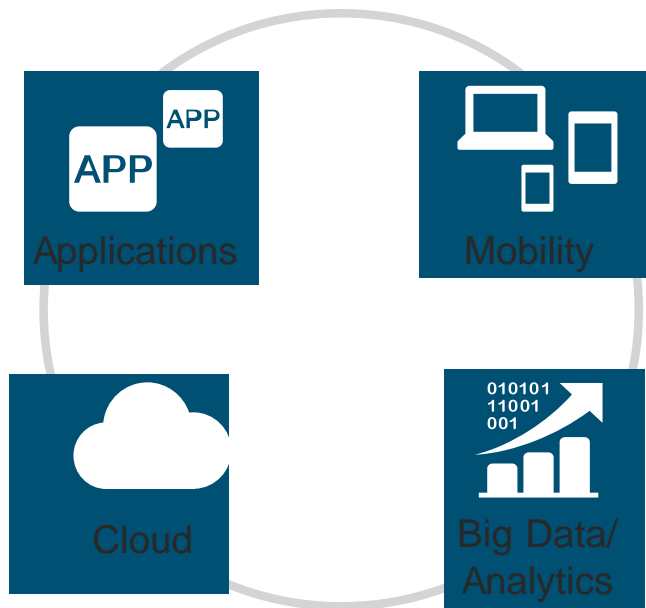## Network Programmability Specialist Certifications

Develop comprehensive skills required to manage today's networks

Software Defined Access Training

Available August/September timeframe

Better understand SD-Access and its key solution components

.

Cisco Data & Analytics Certification Portfolio

New data and analytics training offerings teaches learners an agile data integration method that simplifies access to information

Course Offerings:

- ANDMB - Big Data Analytics, Architecture and Management
- ANDMA - Advanced Big Data Analytics, Architecture, Management and Applications
- ANCISB - CIS Basic
- ANCISV - CIS Advanced
- ANCISM - CIS Administration

Cisco Data Center Certification Portfolio

ASAP DATA CENTER

Digital Transformation Starts with a Cisco ASAP Data Center
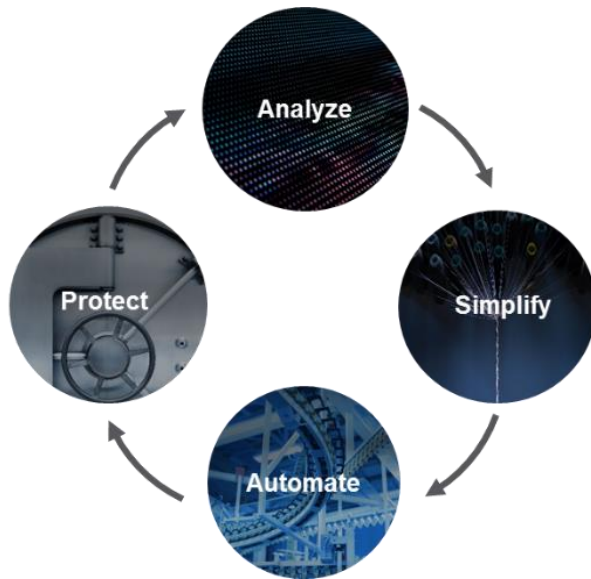
Consistent policy-defined model across entire hybrid cloud domain

Training and certification of capabilities and skills required for end-to-end management of complex, modern IT data center infrastructure

CCNA	CCNP			CCIE
DCICN	DCUCI	DCVAI	DCII	Written Exam
DCICT	DCIT	DCID		Lab Exam

Course Offerings:

- DCICN - Introducing Cisco Data Center Networking 6.0
- DCICT - Introducing Cisco Data Center Technologies 6.0
- DCUCI - Implementing Cisco Data Center Unified Computing
- DCII - Implementing Cisco Data Center Infrastructure
- DCVAI - Implementing Cisco Data Center Virtualization and Automation
- DCID - Designing Cisco Data Center Infrastructure
- DCIT - Troubleshooting Cisco Data Center Infrastructure

Enabling Programmability and Automation
"NP Everywhere"

Certifications

Embed into Career Certifications

✓ CCIE Next Gen

✓ CCNA R&S

✓ CCNA/CCNP Cloud

• Collab Portfolio (revised)

NP/SDN Deep Dive Certifications

✓ NPDESI Specialist

✓ NPDEV Specialist

Training

NP/SDN

✓ PRNE, NPDESI, NPDEV

✓ DNAIE

✓ APIC-EM, DCAC9K (ACI)

✓ DevNet: NP, UCS, DC, Cloud Native, Cloud Collab, DLP, CAIP, DevNet Express

Cloud

✓ CCNA/CCNP Cloud

✓ UCSD, PSC

• CLDCNTR

Innovation

NP Recert Power

✓ NPDESI re-certs all CCNA/CCNP

✓ NPDEV re-certs all CCNA/CCNP

Flexible Blueprints

• NP in all new Flexible Blueprints

Continuing Education

✓ NP offers in CE recert

Content Expansion

Onboarding Assets

✓ Intro to Python Series (CLN Premium)

✓ Get started with SDN (CLN)

DevNet Onboarding

• DevNet → NP Engineer

• DevNet → NP Developer

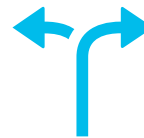**Channels Onboarding**

• Use Case Based Training

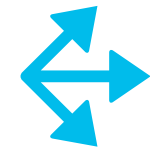# Future Evolution of the Portfolio

Introduce role-oriented, digital transformation programs throughout the next year

Support customer innovation, marketing, and project management

Help organizations navigate the transitions and develop people

Drive unprecedented growth and harness digital opportunities

One stop shop to plan your learning!

Credit(s) Summary

Expert
Level

■ 96 Pending ■ 110 Approved ■ 0 Needed

Certification Summary

Certification	Certification Level	Days to Expire	Cert Status
CCIE Certification - ISP Dial	Expert	130	Active
CCIE Certification - Routing & Switching	Expert	130	Active

Certification(s) Detail

Continuing education focus
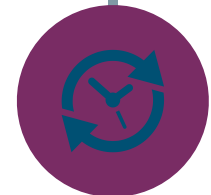# Flexible option for keeping skills current

Current
Content

Convenience
of Access

Customized
by Learner

Continuous
Learning
Journey
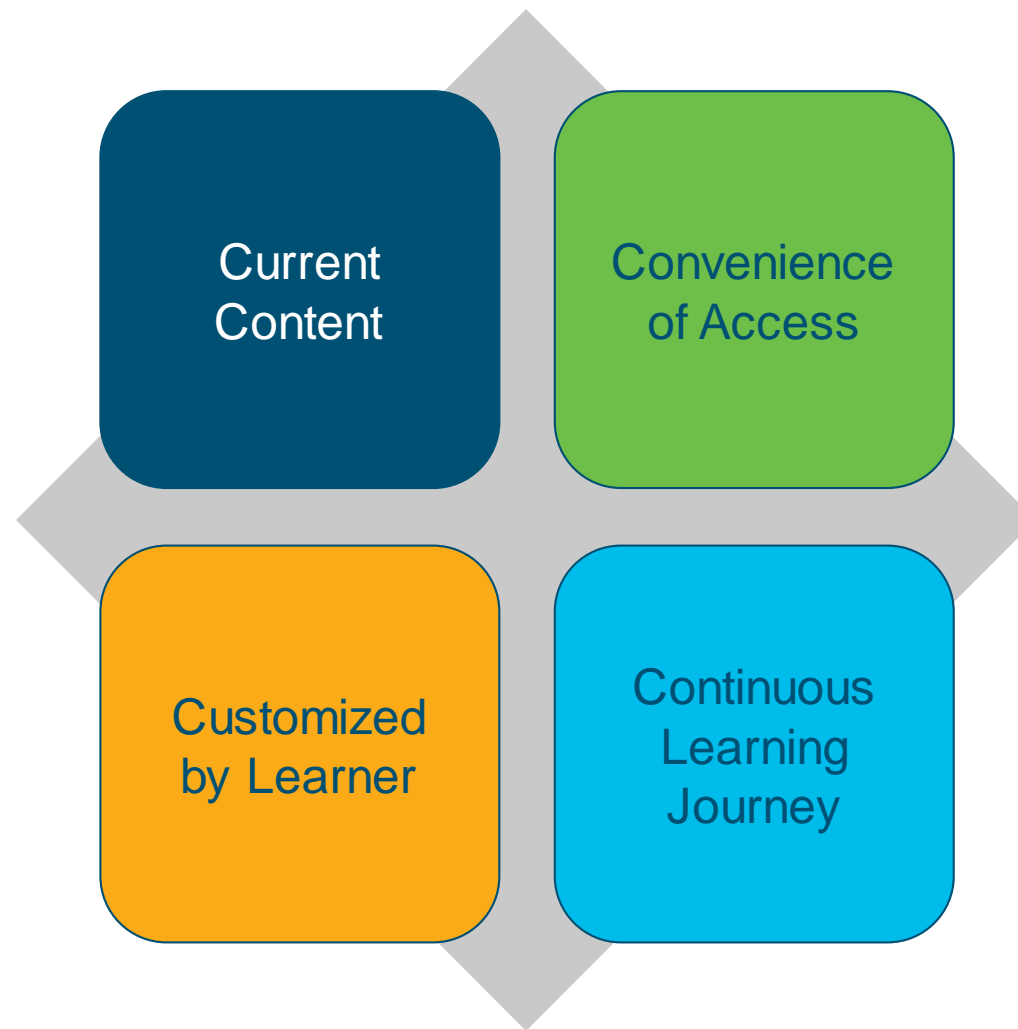
Learning@Cisco

Digital transformation
is creating a new workforce

Education portfolio
must address changing roles and preferences

Continuous and collaborative learning
will drive business outcomes

New industry partnerships
for IoT talent need to be established

Questions?

Thank you