What is Cisco Networking Academy?

A global information and communications technology (ICT) education program

Teaches students how to design, build, troubleshoot, and secure computer networks

Provides increased access to career and economic opportunities in communities around the world
The Networking Academy Model

Cisco leverages its expertise in ICT and networking to develop courses delivered through public-private partnerships.

Students attend courses at local schools and educational institutions throughout the United States and Canada.

Students Gain Critical Skills
- Technical
- Business
- 21st century soft skills

Students Prepare for
- Entry-level careers
- Industry-recognized certifications
- Entrepreneurship
- Further education
You Learn Best by Doing

- Interactive activities, hands-on labs, quizzes, demos and games
- Simulations, virtual tools to build and troubleshoot networks, visualize network traffic, and collaborate on multi-user activities
NetAcad Course Delivery Options

Instructor-led

Courses that are opened and taught by an instructor in a face-to-face classroom, or in a blended classroom and distance-learning environment, or remotely.

Self-paced

Online, self-enroll courses that students complete at their own pace, sometimes within a set time frame. Self-paced offerings include podcasts.
What are the courses like?
Cisco Networking Academy
Benefits for Students

• Rigorous courses, online content, tools
• Ongoing assessment and personalized feedback
• Both individual instruction and independent study
• Experienced instructors delivering in-classroom content
• Critical 21st century skills
• Hands-on experience in labs working collaboratively and individually
• Preparation for industry-recognized certifications
• Pathways to higher education and career
• Access to global ICT support communities, career tools, and social networking
Courses Always Focus on You

- In-person and online instruction
- Hands-on practice
- Simulation games
- Easy-to-follow labs
- 24/7 tech support
- Online assessments

“In a global economy where the most valuable skill you can sell is your knowledge, a good education is no longer just a pathway to opportunity – it is a prerequisite.”

– President Obama, Address to Joint Session of Congress
Easy Course Navigation

Module 1
What is the IoE?

Module 2
Pillars of the IoE

Module 3
Connecting the Unconnected

Module 4
Transitioning to the IoE

Module 5
Bringing it all Together

Section 1.0
Introduction

Topic 1.0.1
Welcome

Section 1.1
Internet of Everything

Section 1.2
The Value of the IoE

Section 1.3
Globally Connected

Section 1.4
Summary
Cisco Packet Tracer
Simulation, Visualization, and Collaboration Tool

- Simulate IOS Commands
- Visualize Network Traffic
- Collaborate on Multiuser Activities
Real-World Case Studies

2 Starting an Internet Cafe
2.1 Think like an Entrepreneur

2.1.1 Recognize a Problem

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 that their problem has no readily available solution, they consider starting 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

Click Play to hear the audio.
Career Skills Go Beyond Technical Ability

Which skills do employers say are most important?

- 61% Soft Skills
- 32% Hard Skills
- 7% Social Media Skills

93% of employers reported that the capacity to think critically, communicate clearly, and solve complex problems is more important than an undergraduate major.

Source: BusinessWeek, 2013

Source: Associated Press, 2013
Career Skills Go Beyond Technical Ability

Students applying their skills at METC conference.
Courses Align with Industry Certifications

Student Networking Knowledge and Skills
IT Essentials
CCNA Routing and Switching
Introduction to Cybersecurity
Introduction to Linux
Internet of Everything
Entrepreneurship
CCNA Security
Mobility Fundamentals
Python
C++
Many high schools provide college credit, duplicate enrollment, and other forms of articulation to save students time and costs.
Cisco Certifications Can Increase Salary

On average, Cisco certified individuals earn 9% more:

- $74,764
- $82,923
- $92,430
- $97,617
- $101,915
We are one of the World’s Largest Classrooms
Since 1997

<table>
<thead>
<tr>
<th>Countries Offering Courses</th>
<th>Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
<td>20,000</td>
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<table>
<thead>
<tr>
<th>Students</th>
<th>Online exams taken</th>
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<tbody>
<tr>
<td>5 Million</td>
<td>100 Million</td>
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<table>
<thead>
<tr>
<th>Schools</th>
<th>Languages Offered</th>
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<tbody>
<tr>
<td>9,000</td>
<td>19</td>
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## U.S. National Impact

### Quarterly Metrics as of 10.31.14

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Academy Students since inception</td>
<td>1,168,195</td>
</tr>
<tr>
<td>Active Academy Students</td>
<td>140,103</td>
</tr>
<tr>
<td>Active Female Students</td>
<td>14%</td>
</tr>
<tr>
<td>Active Institutions Partnering with Cisco</td>
<td>1,778</td>
</tr>
<tr>
<td>Active Academy Instructors</td>
<td>3,280</td>
</tr>
<tr>
<td>Congressional Districts Participating</td>
<td>411 (94%)</td>
</tr>
<tr>
<td>In-Kind Contribution Value since inception</td>
<td>$523.38 M</td>
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## Local Impact

### Sample of North Tech Cisco Networking Academy Graduates - Current Positions - August 2017

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Grad Year</th>
<th>Position</th>
<th>Company</th>
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<tbody>
<tr>
<td>Tom Wors**</td>
<td>06</td>
<td>Senior Applications Engineer</td>
<td>Equifax Workforce Solutions</td>
</tr>
<tr>
<td>Lamont McGee**</td>
<td>11</td>
<td>Senior Specialist - Network Support</td>
<td>AT&amp;T</td>
</tr>
<tr>
<td>Stacy Bueneman**</td>
<td>09</td>
<td>IP Development Engineer</td>
<td>Spectrum (Charter Communications)</td>
</tr>
<tr>
<td>Jason Meyer**</td>
<td>09</td>
<td>Network Provisioner</td>
<td>Enterprise Holdings</td>
</tr>
<tr>
<td>Jamar Vales**</td>
<td>11</td>
<td>System Administrator</td>
<td>Sawdey Solution Services - Scott AFB</td>
</tr>
<tr>
<td>Donny Woldridge**</td>
<td>11</td>
<td>T Consultant</td>
<td>Computype</td>
</tr>
<tr>
<td>Shawn Fletcher</td>
<td>05</td>
<td>IT Help Desk Technician</td>
<td>Hussman Refrigeration</td>
</tr>
<tr>
<td>Kevin Killoran</td>
<td>05</td>
<td>Security Engineer</td>
<td>Connectria Hosting</td>
</tr>
<tr>
<td>Chris Funicelli**</td>
<td>09</td>
<td>Systems Administrator</td>
<td>STL-KC Carpenters Regional Council</td>
</tr>
<tr>
<td>Christian McIntosh</td>
<td>10</td>
<td>Network Infrastructure Technician</td>
<td>JSAF - Einsiedlerhof Air Station - GER</td>
</tr>
<tr>
<td>Jam Montgomery</td>
<td>07</td>
<td>Aviation Communications System Chief</td>
<td>US Marine Corps</td>
</tr>
<tr>
<td>Rick Sherman</td>
<td>02</td>
<td>Senior Release Engineer (Network Platforms)</td>
<td>Puppet Labs</td>
</tr>
<tr>
<td>Christopher Peterson</td>
<td>10</td>
<td>Workforce Management Coordinator</td>
<td>Spectrum (Charter Communications)</td>
</tr>
<tr>
<td>Rashad Ross</td>
<td>08</td>
<td>Technology Specialist, Info Systems Instructor</td>
<td>St. Louis Community College</td>
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<tr>
<td>William Sinks</td>
<td>13</td>
<td>Help Desk Support</td>
<td>Office Max</td>
</tr>
<tr>
<td>Ryan Guinn</td>
<td>02</td>
<td>Operations Manager</td>
<td>Verizon Wireless</td>
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<tr>
<td>Carlton Curry</td>
<td>12</td>
<td>Associate Network Analyst</td>
<td>RCEI Commission</td>
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<tr>
<td>Chris Hillen</td>
<td>08</td>
<td>Cisco Instructor</td>
<td>State Technical College of Missouri</td>
</tr>
<tr>
<td>Tre Malik**</td>
<td>16</td>
<td>Associate Systems Engineer</td>
<td>Spectrum (Charter Communications)</td>
</tr>
<tr>
<td>Elbert Adams**</td>
<td>16</td>
<td>Associate Systems Engineer</td>
<td>Spectrum (Charter Communications)</td>
</tr>
<tr>
<td>Joshua Chapman</td>
<td>17</td>
<td>Help Desk Support</td>
<td>SSD of St Louis County</td>
</tr>
</tbody>
</table>

** - Denotes current advisory committee member
Girls in ICT: No Need for a ‘Y’ Chromosome

• Cisco Networking Academy also works to promote ICT education and careers for women. The percentage of female academy students continues to grow nationally.

• Here is a video used at the Girls in ICT Day in 2014 (features Cisco leaders):
  https://videosharing.cisco.com/vportal/VideoPlayer.jsp?ccsid=C-235d1b2b-646a-4164-84e5-c0e2d2f7f5db:1#
Stacy Bueneman
Charter
Communications
Celina French
North Tech HS
Gage Miller
Ft. Zumwalt South HS
Myles Anderson
North Tech HS
Thank you.
Contact Info:
Jim Elkins
North Technical High School
jelkins@ssdmo.org