



Cisco Networking Academy: Colorado Profile

Cisco® Networking Academy® is playing a critical role in the U.S. economic recovery by preparing students for the sustainable jobs that government, education and industry all agree will fuel America's ability to innovate and compete, not just today but in the future. As the focus turns to infrastructure, Networking Academy provides students with critical IT and networking skills to design, build, and maintain the infrastructure highway that both the public and private sector now depend on for sustainability.

The new Obama administration clearly recognizes the importance that technology plays in preparing students to compete in a 21st century global economy. In a speech on January 8, 2009, at Virginia's George Mason University, President Obama highlighted the current science and technology skills gap in the United States and the urgent need to address it:

“To give our children the chance to live out their dreams in a world that’s never been more competitive, we will equip tens of thousands of schools, community colleges, and public universities with 21st century classrooms, labs, and libraries. We’ll provide new computers, new technology, and new training for teachers, so that students in Chicago and Boston can compete with kids in Beijing for the high-tech, high-wage jobs of the future.”

Cisco Networking Academy is a proven model for delivering 21st century learning because it delivers:

- rigorous and interactive curricula licensed at no cost to nonprofit educational institutions
- an e-learning platform that supports different learning styles
- web-based content available to students 24/7
- online assessments
- student performance tracking
- hands-on labs
- instructor training and support

Networking Academy is a unique public-private partnership between educational institutions, national, state and local government, and community-based organizations, currently educating more than 128,000 students in over 2,200 U.S. educational institutions.

As an education solution, Networking Academy encourages seamless educational pathways between secondary and post-secondary institutions by using curricula aligned to national and state education standards for math, language arts, and technology and industry certifications. These courses also help students prepare to pursue degrees related to science, technology, engineering, and math (STEM). Networking Academy courses provide instructors with tools to help students make the connection between their educational experience and their careers. In the United States, academies are located in high schools, technical schools, colleges, universities, and community-based organizations.

Cisco Networking Academy provides:

- IT and networking skills mapped to high-skill, high-demand, high-wage 21st century jobs across virtually every industry
- sustainable partnerships at all levels of education, including community colleges at the forefront of workforce development and retraining

- strong alignment with high school career and technical education programs that build technical skills and create pathways for high school graduates going either directly into the workforce or on to post-secondary education
- the skilled pipeline of talent required to design, build and maintain the infrastructure needed for economic recovery

Included in each state profile are Networking Academy statistics, IT workforce projections, and student/graduate stories. These state-by-state profiles will provide you with important information about the value Cisco brings to government, education and business through delivery of IT/networking skills and knowledge. Cisco Networking Academy educates the architects of today's networked economy.

Profiles are updated annually with core content, and we will continue to add student/graduate profiles. For your convenience, the library of profiles for each state, plus the District of Columbia and the United States as a whole, are accessible at <http://www.cisco.com/go/netacadresourcecenter>.

We welcome your suggestions for future profiles. Please send any questions and feedback to our U.S. Marketing Team via Nancy Bischoff at nbischof@cisco.com.

Learn More

Table 1 lists data about academies in Colorado. Table 2 lists information about Networking Academy curricula in Colorado, and Table 3 shows information by student education level.

For additional information about Cisco Networking Academy, visit <http://www.cisco.com/go/netacad>

Table 1. Cisco Networking Academy in Colorado

Networking Academy students	1031
Female Networking Academy students	14% female
Distinct cumulative academy students (having successfully completed a course)	13,718
Academies	25
Academy instructors	41
Total estimated cumulative contribution value to Colorado academies*	\$6,853,494

Sources: AME/MRE FULL Package_10 31 08 Quarterly Metrics Date: Nov 13, 2008

Cumulative students are distinct; therefore, each student is only counted once.

*This estimate includes donations and discounts made to educational institutions implementing Cisco Networking Academy within Colorado.

*Sources: AME/MRE report #3616student and instructor enrollment by year 2008.11.24_JBZ_v8.xls

Table 2. Networking Academy Curricula in Colorado

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
Number of academies by curriculum	25	44%	84%	64%	20%

The above curricula represent the core Networking Academy curricula.

*Includes CCNP, Security, Wireless, Java, UNIX and Panduit Network Infrastructure Essentials (PNIE)

Academies often teach multiple curricula and may be counted more than once in this table.

Source: AME/MRE rpt #3651 as of 10.31.08 v2 Date: Dec 8, 2008

Table 3. Colorado Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
Colorado Students*	1031	31%	56%	11%	1%
Colorado Academies*	25	38%	52%	8%	2%

Sources: AME/MRE FULL Package_10 31 08 Quarterly Metrics Date: Nov 13, 2008

*For academies that self identify as more than one education level, the academies and students in this table are distributed proportionately across the education levels.

Academies represented in "Other" category include the following: community-based organizations, middle schools, the military, nontraditional educational settings, and post-graduate institutions.



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Active Cisco Networking Academies in Colorado U.S. Congressional District Database

Data for this report was gathered using the U.S. Congressional District Database. This tool was developed to communicate with congressional representatives about Cisco Networking Academy implementation in their home districts. The database maps active academies by congressional district or by all districts within a state, providing academy name, city, state, and congressional district. The listing by state is updated annually.

Table 4 lists information about academies in Colorado congressional districts.

Table 4. Networking Academies in Colorado Congressional Districts

Number of Colorado Congressional Districts	Number of Colorado Congressional Districts <u>with</u> Networking Academies	Number of Colorado Congressional Districts <u>without</u> Networking Academies	% Colorado Congressional District Penetration
7	7	0	100%

Academies listed here have taught a class with at least three students, or adopted a new curriculum, within the last twelve months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: October 31, 2008

Active Colorado Cisco Networking Academies by Congressional District

* Indicates Cisco Networking Academy Training Center

Academies listed here have taught a class with at least three students, or adopted a new curriculum, within the last twelve months

Source: MRE/Academy Connection, U.S. Congressional District Database Date: October 31, 2008

Congressional District 1

- Westwood College Denver South DNS (ACC) (Denver)

Congressional District 2

- DeVry University, Denver (ACC) (Westminster)
- Summit Campus-Colorado Mountain College (Breckenridge)
- Westwood College Denver North Local DNN (ACC) (Denver)

Congressional District 3

- Collbran Job Corps Center (Collbran)
- Colorado Northwestern Community College (Craig)
- Glenwood Campus- Colorado Mountain College (Glenwood Springs)
- Mesa State College-WCCC (Grand Junction)
- North Conejos (La Jara)
- *Otero Junior College (La Junta)
- Pueblo Community College (Pueblo)
- San Juan Basin Technical College (Mancos)
- Sargent (Monte Vista)
- *Trinidad State Jr. College - San Luis Valley Campus (Alamosa)

Congressional District 4

- Lamar Community College (Lamar)
- Loveland High School (Loveland)

Congressional District 5

- Doherty High School (Colorado Springs)
- Falcon High School (Peyton)
- Liberty H.S. (Colorado Springs)
- Mitchell High School (Colorado Springs)
- *Pikes Peak Community College (Colorado Springs)

Congressional District 6

- Arapahoe Community College (Littleton)
- Chatfield Senior High School (Littleton)

Congressional District 7

- *Red Rocks Community College - Regional (Lakewood)



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Cisco Networking Academy: Workforce Development in Colorado

Cisco® Networking Academy® is ready to help U.S. workers learn critical IT and networking skills through academies located in high schools, community colleges, four-year colleges, and nontraditional settings. Developing in-demand technical skills in a timely, focused program enables students to quickly find and retain sustainable, high-paying jobs. Academy courses map to industry certifications and prepare students for technical jobs in a new, improved technical infrastructure across the nation. Even students who complete introductory courses will be prepared to work for companies that depend on a technical infrastructure for business sustainability.

“Obama’s pro-tech agenda could increase the number of technology jobs in the United States by 10 percent, adding about 300,000 high-paying IT positions.” –Katherine McGuire, VP of government relations, Business Software Alliance ¹

“Even with this economic downturn, the jobs outlook in IT for 2009 is better than that of many other industries, since IT is no longer at the peripheral of industries but at the core of their competitive edge, and IT will play a critical role in the infrastructure build out.” –David Foote, CEO of Foote Partners LLC, which analyzes IT wages and hiring data ¹

As the U.S. remains focused on economic recovery throughout 2009, there is a growing emphasis on upgrading the educational infrastructure to deliver the required knowledge and skills to build the needed technical workforce to support and maintain technology infrastructure assets and requirements. Just as the interstate highway investment created millions of construction jobs, which were then followed by maintenance and automotive jobs in the long term, so technology investments will initially create jobs necessary to design and deploy technology infrastructure, and these jobs will be followed by an array of new business opportunities.

“Investments in America’s digital infrastructure will spur significant job creation in the immediate term. An investment of \$40 billion in IT network infrastructure in 2009 will create more than 949,000 U.S. jobs, more than half of which will be in small businesses.” –Technology CEO Council press release ²

Cisco Networking Academy addresses the need for 21st century teaching and learning models that prepare students to move into the pipeline of talent needed to fill these high-skill, high-wage, high-demand careers.

“We will enable students of all ages to learn in 21st century classrooms, labs, and libraries, to help our students compete with any worker in the world.” –American Recovery and Reinvestment Plan press release ³

In a recent report, the Information Technology and Innovation Foundation “finds that investments in America’s digital infrastructure will spur significant job creation in the short run. Specifically, ITIF estimates that an additional investment of \$30 billion in America’s IT network infrastructure in 2009 will create approximately 949,000 U.S. jobs.” ⁴

¹ Computerworld, 1/5/09, *Stimulus could create thousands of IT jobs*, <http://www.computerworld.com/action/article.do?command=viewArticleBasic&articleId=331783>

² Technology CEO Council, Wash. D.C. 1/29/09, http://www.techceocouncil.org/index.php?option=com_content&task=blogsection&id=8&Itemid=159

³ American Recovery and Reinvestment Plan press release, 1/16/09, <http://appropriations.house.gov/pdf/PressSummary01-15-09.pdf>

⁴ ITIF, 1/7/09, *The Digital Road to Recovery: A Stimulus Plan to Create Jobs, Boost Productivity and Revitalize America*, <http://www.itif.org/index.php?id=212>

IT Occupational Data

Table 5 lists information about IT-related occupations in the United States, and Table 6 lists this information for Colorado.

Table 5. Selected IT-Related Occupations in the United States

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007*
	2006	2016	Numeric	Percent		
Computer Support Specialists	552,000	624,000	71,000	21.9	24,000	525,570
Computer Systems Analysts	504,000	650,000	146,000	29	28,000	446,440
Network and Computer Systems Administrators	309,000	393,000	83,000	27	15,000	309,660
Network Systems and Data Communications Analysts	262,000	402,000	140,000	53.4	19,000	216,050
Computer and Information Systems Managers	264,000	307,000	43,000	16.4	9,000	264,990

U.S. Department of Labor, Bureau of Labor Statistics, <http://www.projectionscentral.com>, based on data availability as of October 31, 2008

*U.S. Department of Labor, Bureau of Labor Statistics, May 2007 State Occupational Employment and Wage Estimates (US), <http://stat.bls.gov/oes/current/oesrcst.htm>

Table 6. Selected IT-Related Occupations in Colorado

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007 [^]
	2006	2016	Numeric	Percent		
Computer Support Specialists	12,636	15,236	2600	20.6	760	12,490
Computer Systems Analysts	10,083	13,562	3479	34.5	615	9530
Network and Computer Systems Administrators	8159	11,212	3053	37.4	491	8090
Network Systems and Data Communications Analysts	6389	10,609	4220	66.1	552	5270
Computer and Information Systems Managers	4451	5448	997	22.4	172	4390

U.S. Department of Labor, Bureau of Labor Statistics, <http://www.projectionscentral.com>, based on data availability as of October 31, 2008

[^] U.S. Department of Labor, Bureau of Labor Statistics, May 2007 State Occupational Employment and Wage Estimates (by state), <http://stat.bls.gov/oes/current/oesrcst.htm>



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Colorado Student and Graduate Profile

For the past ten years, Jami Everett of Colorado Springs has been making a difference in the lives of students and administrators at Pikes Peak Community College. Her work in Cisco® Networking Academy® prepared Jami for an entry level job at Pikes Peak Community College (PPCC) in Colorado Springs and the beginning of a rewarding information technology (IT) career. “The Networking Academy has helped me in so many ways,” says Jami.

She is proud to be able to say, “To this day, what I learned in the Networking Academy has allowed me to over-deliver and produce quality results. My involvement with technology has led to the advancement of teaching techniques and expanded computerized programs and degree studies.”

Jami learned of the Networking Academy in her freshman year at college at PPCC. Her work-study job in the computer lab was being eliminated and, to prepare herself for her next job, Jami changed majors and started taking Networking Academy courses.

Networking Academy was a factor not only in Jami being hired by PPCC as a full-time IT Technician but also being able to make an immediate contribution. “The college was converting its technology,” says Jami “and I was able to apply my knowledge of design to assist with implementation of the network infrastructure. Nearly ten years later, I am still using the knowledge learned through the Networking Academy in my daily responsibilities.”

“I think the Cisco program was a lot like hiking to the top of a mountain where some days you couldn’t see the top. I won’t deny that it was hard work, but receiving the certification was one of those times I was very proud of myself and I knew I gave it my all to come out on top. I wouldn’t trade it for the world.”

As an IT professional at Pikes Peak Community College, Jami’s responsibilities include LAN support, IP Telephony, and IP-based video conferencing. Jami is currently on the Communication and Distribution team for IT Support Services at PPCC and has used her Cisco training on a wide variety of Cisco switches and routers.

She and her team are currently designing a campus-wide Wi-Fi network and implementing a Cisco IP Telephony solution. Jami asserts that, “The education from the Networking Academy continues to be pertinent in my everyday tasks.” She finds working in the college environment highly rewarding and appreciates being able to see the results of her work immediately. “I love going to work knowing that what I do helps someone else: people pursuing their education and their futures.”

Richard Reynolds, Jami’s academy instructor, says, “Jami is a forward-looking individual who saw the market opportunity along with employment and a program that would enable her to achieve her goals. Through dedication to her classroom and Web-enabled studies, Jami changed her life and found a career.

Jami has continued to advance her position through on-the-job training and self-learning. She has set a very high standard for IT technicians at PPCC and throughout the Networking Academy.”

Jami is currently taking classes to finish her associate’s degree. She has already earned her Cisco Certified Network Associate (CCNA®) certification and is considering additional certifications as well as bachelor’s degree options.

When asked what advice she would give others considering enrolling in the Networking Academy, Jami says she can’t stress enough the dedication it takes to complete all the requirements: “I think the Cisco program was a lot like hiking to the top of a

mountain where some days you couldn't see the top. I won't deny that it was hard work, but receiving the certification was one of those times I was very proud of myself and I knew I gave it my all to come out on top. I wouldn't trade it for the world."

For additional information on the Networking Academy at Pikes Peak Community College, visit: <http://www.ppcc.edu/>



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