



## Cisco Networking Academy: New Mexico 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 21<sup>st</sup> 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 21<sup>st</sup> 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 21<sup>st</sup> 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 21<sup>st</sup> 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](mailto:nbischof@cisco.com).

## Learn More

Table 1 lists data about academies in New Mexico. Table 2 lists information about Networking Academy curricula in New Mexico, 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 New Mexico

<b>Networking Academy students</b>	660
<b>Female Networking Academy students</b>	19% female
<b>Distinct cumulative academy students (having successfully completed a course)</b>	2825
<b>Academies</b>	10
<b>Academy instructors</b>	20
<b>Total estimated cumulative contribution value to New Mexico academies*</b>	\$1,602,596

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 New Mexico.

\*Sources: AME/MRE report #3616student and instructor enrollment by year 2008.11.24\_JBZ\_v8.xls

**Table 2.** Networking Academy Curricula in New Mexico

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
<b>Number of academies by curriculum</b>	10	30%	90%	60%	0%

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.** New Mexico Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
<b>New Mexico Students*</b>	660	0%	78%	22%	0%
<b>New Mexico Academies*</b>	10	10%	70%	20%	0%

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 New Mexico 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 New Mexico congressional districts.

**Table 4.** Networking Academies in New Mexico Congressional Districts

Number of New Mexico Congressional Districts	Number of New Mexico Congressional Districts <u>with</u> Networking Academies	Number of New Mexico Congressional Districts <u>without</u> Networking Academies	% New Mexico Congressional District Penetration
3	3	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 New Mexico 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

- \*Central New Mexico Community College (Albuquerque)
- SIPI (Albuquerque)

#### Congressional District 2

- DABCC (Las Cruces)
- ENMU-R (Roswell)
- New Mexico Junior College (Hobbs)
- NMSU Engineering Technology (Las Cruces)

#### Congressional District 3

- Clovis Community College (Clovis)
- \*Eastern New Mexico University (Portales)
- Rio Rancho High School (Rio Rancho)
- San Juan College (Farmington)



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## Cisco Networking Academy: Workforce Development in New Mexico

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 <sup>1</sup>

“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 <sup>1</sup>

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 <sup>2</sup>

Cisco Networking Academy addresses the need for 21<sup>st</sup> 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 21<sup>st</sup> century classrooms, labs, and libraries, to help our students compete with any worker in the world.” –American Recovery and Reinvestment Plan press release <sup>3</sup>

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.” <sup>4</sup>

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

<sup>2</sup> Technology CEO Council, Wash. D.C. 1/29/09, [http://www.techceocouncil.org/index.php?option=com\\_content&task=blogsection&id=8&Itemid=159](http://www.techceocouncil.org/index.php?option=com_content&task=blogsection&id=8&Itemid=159)

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

<sup>4</sup> 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 New Mexico.

**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 New Mexico**

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	2580	3040	470	18.2	130	2490
Computer Systems Analysts	1320	1790	480	36.4	80	1200
Network and Computer Systems Administrators	1400	1940	530	37.9	90	1340
Network Systems and Data Communications Analysts	630	990	360	57.1	50	490
Computer and Information Systems Managers	670	820	150	22.4	30	660

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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## New Mexico Student and Graduate Profile

From the age of 16, Chris Perkins of Albuquerque has lived on his own, working to support himself and attending school. After eight years working a variety of jobs, from security at a local nightclub to assisting a metal fabricator/welder, Chris found his place in the information technology (IT) world through the Cisco® Networking Academy®. As a result of changing majors and enrolling in the Networking Academy, Chris earned an internship with a high-tech company and turned that experience into an employment offer. Chris feels he has found an industry and company in which he can thrive. He has earned a Cisco Certified Network Associate (CCNA®) and Cisco Certified Security Professional (CCSP®) certifications and plans to pursuing additional Cisco certifications down the road.

Chris discovered his interest in IT while fulfilling requirements for a business administration major at Central New Mexico Community College (CNM). While enrolled in some required computer courses he discovered, “The classes were fun and interesting, and I realized through that experience that the IT industry was right for me.” He switched to a networking technology major and in 2005 began taking Networking Academy classes. Chris explains that through the networking arena, “I could finally do something that challenged and inspired me.”

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**“I feel the Networking Academy provides students with a great foundation in networking and helps them start a career in IT. I feel I now have a competitive edge and I know that with Cisco's continued growth and the excellent professional environment INX provides, I will always have a place in the IT industry.”**

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Chris’ favorites Networking Academy components were the instructors and the content. “The instructors were helpful, knowledgeable, and inspirational,” and even though the rigorous classes challenged him academically, he was driven to continue. Every class was so helpful and fun that he wished CNM had offered more Networking Academy classes. “It was over too quickly!” laughs Chris.

While Chris was enrolled in the Networking Academy, he was offered an internship with INX, Inc., a Cisco Gold Certified Partner that provides a suite of technology solutions that support the entire life-cycle of IP communications. In addition to learning a lot in his internship, Chris caught the attention of INX. After graduating in August 2006 with an associate of applied science degree in network technology and his CCNA certification, Chris was offered a full-time job as a consulting engineer.

Working at INX has also been a great opportunity for Chris to grow and learn in the IT world. He can choose his area of expertise, take classes and certification exams, practice his knowledge in the workplace, and thrive as a productive subject matter expert in the area of Networking Security. Since graduating, Chris has earned his Cisco Certified Security Professional (CCSP®) certification and intends to pursue additional certifications including the Cisco Certified Network Professional (CCNP®) and Cisco Certified Internet Expert (CCIE®).



Looking back, Chris says, “I feel that the Networking Academy provides students with a great foundation in networking and helps them start a career in IT. I feel I now have a competitive edge and I know that with Cisco's continued growth and the excellent professional environment INX provides, I will always have a place in the IT industry.”

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**Every class was so helpful and fun that he wished CNM had offered more Networking Academy classes.  
“It was over too quickly!” laughs Chris.**

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To learn more about the Networking Academy at Central New Mexico Community College, visit:

<http://www.cnm.edu/depts/bit/index.php>

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