



Cisco Networking Academy: Nevada 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 Nevada. Table 2 lists information about Networking Academy curricula in Nevada, 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 Nevada

Networking Academy students	1483
Female Networking Academy students	17% female
Distinct cumulative academy students (having successfully completed a course)	3729
Academies	16
Academy instructors	39
Total estimated cumulative contribution value to Nevada academies*	\$1,895,285

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 Nevada.

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

Table 2. Networking Academy Curricula in Nevada

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
Number of academies by curriculum	16	88%	50%	31%	13%

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. Nevada Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
Nevada Students*	1483	54%	46%	0%	0%
Nevada Academies*	16	81%	19%	0%	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 Nevada 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 Nevada congressional districts.

Table 4. Networking Academies in Nevada Congressional Districts

Number of Nevada Congressional Districts	Number of Nevada Congressional Districts <u>with</u> Networking Academies	Number of Nevada Congressional Districts <u>without</u> Networking Academies	% Nevada 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 Nevada 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

- Advanced Technologies Academy (Las Vegas)
- Area Technical Trade Center (ATTC) (N Las Vegas)
- *Community College of Southern Nevada (North Las Vegas)
- Legacy High School (North Las Vegas)
- Mojave High School (North Las Vegas)
- Rancho High School (North Las Vegas)
- Western HS (Las Vegas)

Congressional District 2

- Pahrump Valley HS (Pahrump)
- Truckee Meadows Community College (Reno)
- Western Nevada Community College (Carson City)

Congressional District 3

- Centennial HS (Las Vegas)
- Chaparral HS (Las Vegas)
- Desert Pines HS (Las Vegas)
- Eldorado HS (Las Vegas)

- Liberty HS (Henderson)
- Southern Nevada Vocational Training Center (Votech (Las Vegas))



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Cisco Networking Academy: Workforce Development in Nevada

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 Nevada.

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 Nevada

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	3083	4184	1101	35.7	148	3260
Computer Systems Analysts	1847	2640	793	42.9	100	1870
Network and Computer Systems Administrators	1232	1950	718	58.3	86	1350
Network Systems and Data Communications Analysts	1240	2129	889	71.7	104	1110
Computer and Information Systems Managers	1247	1729	482	38.7	71	1310

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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Nevada Student and Graduate Profile

Ben Martin's visual impairment has not hindered his ability to excel in a career as an information technology (IT) professional. He has achieved his Cisco Certified Network Associate (CCNA®) certification and is currently living in Las Vegas working as a senior network engineer. "Through the use of technology, I have been able to accomplish my goals. I encourage anybody with an interest in IT, regardless of any disability, to let the Cisco Networking Academy® be their foundation."

Legally blind since birth, Ben says he always had a keen interest in technology. He recalls taking apart computers at a young age to see how they worked and took advantage of the technology offered at the schools he attended early in his education. Ben began taking the Networking Academy's CCNA course while in high school at Puget Sound Skills Center in Seattle, Washington. "Our class was responsible for the school's network and other offsite locations, and I became the point person to help maintain those networks."

After graduating from high school in 2003, Ben moved to Las Vegas to be closer to his father. He enrolled at the College of Southern Nevada specifically because they offered the Networking Academy. While taking the course, Ben worked part time in the college's networking lab where he says he gained hands-on practical experience working on Cisco technology. In addition, he participated in the regional SkillsUSA competition and placed second in the Internetworking contest.

"I use my Networking Academy knowledge and skills every day to either make my customers happy, or to make life easier for myself and my company." Ben Martin

In 2005, Ben completed both the CCNA course and certification and soon began working full time for Connecting Point Las Vegas as a senior network engineer. "I am responsible for day-to-day operations for six individual companies, all with different environments, equipment needs, and goals. While I report to my bosses, I also directly report to the company executives and owners whose networks I manage." Ben adds, "I use my Networking Academy knowledge and skills every day to either make my customers happy, or to make life easier for myself and my company."

While his visual impairment has its everyday challenges, Ben says when it comes to working in networking in general, the adjustments are minor. Though he cannot read text for extended periods of time, he does utilize the larger font sizes available on most applications. Most of the time, however, he simply relies on his high-powered magnifying glass which helps him to read serial numbers and product codes.

Ben plans to complete his associate's degree in applied science in computer internetworking and earn Cisco Certified Network Professional (CCNP®) certification. In addition, he aspires to become an attorney. "I've searched the term 'blind lawyers' online and have come across some cool applications being used in today's courtrooms, like real-time narration and programs that load documents into an earpiece. Technology makes anything possible!" For more information on the Cisco Networking Academy at Puget Sound Skills Center, visit: <http://www.seatacosc.org>. For more information on the Cisco Networking Academy at the College of Southern Nevada, visit: <http://www.csn.edu/>



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