



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

Networking Academy students	1026
Female Networking Academy students	15% female
Distinct cumulative academy students (having successfully completed a course)	7283
Academies	24
Academy instructors	46
Total estimated cumulative contribution value to Hawaii academies*	\$2,719,354

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 Hawaii.

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

Table 2. Networking Academy Curricula in Hawaii

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
Number of academies by curriculum	24	71%	58%	29%	8%

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. Hawaii Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
Hawaii Students*	1026	67%	31%	2%	0%
Hawaii Academies*	24	71%	25%	4%	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 Hawaii 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 Hawaii congressional districts.

Table 4. Networking Academies in Hawaii Congressional Districts

Number of Hawaii Congressional Districts	Number of Hawaii Congressional Districts <u>with</u> Networking Academies	Number of Hawaii Congressional Districts <u>without</u> Networking Academies	% Hawaii Congressional District Penetration
2	2	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 Hawaii 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

- Heald College, Honolulu Campus (Honolulu)
- *Honolulu Community College (Honolulu)
- Kamehameha Schools (Honolulu)
- McKinley HS (Honolulu)
- Mililani HS (Mililani)
- Moanalua HS (Honolulu)
- Pearl City HS (Pearl City)
- University of Hawaii College of Engineering (Honolulu)
- US Army-Hawaii/30th Signal Battalion (Ft. Shafter)
- Waipahu HS (Waipahu)

Congressional District 2

- *Hawaii Community College - Regional (Hilo)
- Honoka'a HS (Honokaa)
- James B. Castle High School (Kaneohe)
- Kahuku High School (Kahuku)
- Kanu O Ka Aina New Century Public Charter School (Kamuela)

- Kapaa High School (Kapaa)
- Kauai Community College (Lihue)
- Keaau High School (Keaau)
- Kekaulike (Makawao)
- Konawaena HS (Kealahou)
- Maui Community College (Kahului)
- Maui High School (Kahului)
- Waiakea High School (Hilo)
- Waimea High School (Waimea)



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Cisco Networking Academy: Workforce Development in Hawaii

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 Hawaii.

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 Hawaii

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	1280	1390	110	8.6	50	1250
Computer Systems Analysts	1030	1260	230	22.3	50	970
Network and Computer Systems Administrators	930	1130	200	21.5	40	930
Network Systems and Data Communications Analysts	1130	1600	470	41.6	70	910
Computer and Information Systems Managers	680	750	70	10.3	20	670

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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Hawaii Student and Graduate Profile

From working on her parent's home computer to working for a leading software and internet service provider company, Elayne Man is making a place for herself in the technology industry. During her freshman year in high school, Elayne began the Cisco® Networking Academy® at Mililani High School in Mililani, Hawaii. By her senior year, she had obtained her Cisco Certified Network Associate (CCNA®) certification, competed twice at the National SkillsUSA competition, and secured a full scholarship to the University of Hawaii. Elayne recently graduated and was hired at Ho'ike Technology as a software engineer. "I would not be where I am today without my mentors and instructors from the Cisco Networking Academy," says Elayne.

Elayne's father noticed early on that his daughter was interested in computers and technology. "One day my father gave me one of his Visual Basic books. If I wanted a week's allowance, I would have to complete one of the sample programs in Visual Basic. Eventually, my father noticed I was having too much fun with programming and decided that I had to go back to washing dishes to earn an allowance." With the encouragement and recommendation from her father, Elayne signed up for the academy at her high school, taking CCNA courses during her freshman and sophomore years.

In addition to her studies at Mililani High School, Elayne was also heavily involved in extracurricular activities. "I spent time doing SkillsUSA leadership activities, fundraisers, as well as took on additional science and technology courses." In June 2002, Elayne placed fifth at the National SkillsUSA Internetworking competition. Due to her hard work and dedication to her education and activities, Elayne graduated from Mililani High School as their 2003 valedictorian and received her CCNA certification as well. In addition, she was able to secure a position at a local construction company as their systems and network administrator.



In June 2002, Elayne placed fifth at the National SkillsUSA Internetworking competition.

For the past few years, Elayne has followed her technology path and in May 2007 she earned a degree in computer science at the University of Hawaii. "The Cisco Networking Academy has opened many doors for me, one of which ultimately helped me attain a full-tuition scholarship at the University of Hawaii."

For more information on the Cisco Networking Academy at Mililani High School, visit: <http://www.mililanihs.k12.hi.us/>



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