



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

Networking Academy students	2274
Female Networking Academy students	12% female
Distinct cumulative academy students (having successfully completed a course)	14,570
Academies	40
Academy instructors	72
Total estimated cumulative contribution value to Washington academies*	\$8,061,287

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 Washington.

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

Table 2. Networking Academy Curricula in Washington

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
Number of academies by curriculum	40	43%	88%	45%	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. Washington Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
Washington Students*	2274	30%	68%	0%	2%
Washington Academies*	40	45%	50%	0%	5%

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 Washington 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 Washington congressional districts.

Table 4. Networking Academies in Washington Congressional Districts

Number of Washington Congressional Districts	Number of Washington Congressional Districts <u>with</u> Networking Academies	Number of Washington Congressional Districts <u>without</u> Networking Academies	% Washington Congressional District Penetration
9	9	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 Washington 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

- Cascadia Community College (Bothell)
- Central Kitsap High School (Silverdale)
- Edmonds Community College (Lynnwood)
- Lake Washington Technical College (Kirkland)
- North Kitsap Academy (Poulsbo)
- Olympic High School (Bremerton)

Congressional District 2

- Whatcom Community College (Bellingham)

Congressional District 3

- Clark College (Vancouver)
- *Education Service District 113 (Olympia)
- New Market Vocational Skill Center (Tumwater)
- Prairie High School (Brush Prairie)
- South Puget Sound CC (Tumwater)
- White Pass High School (Randle)

Congressional District 4

- Big Bend Community College (Moses Lake)
- Columbia Basin Civilian Conservation Corps (Moses Lake)
- Perry Technical Institute (Yakima)
- White Salmon Valley School District (White Salmon)
- Yakima Valley Community College (Yakima)

Congressional District 5

- Cheney High School (Cheney)
- Central Valley High School (Spokane Valley)
- John Rogers High School (Spokane)
- Lewis and Clark High School (Spokane)
- *Spokane Community College CATC (Spokane)
- *Walla Walla Community College (Walla Walla)

Congressional District 6

- *Bates Technical College Cisco Academy (Tacoma)
- Clover Park Technical College (Lakewood)

- North Beach School District (Ocean Shores)
- Olympic College (Bremerton)
- Peninsula College (Port Angeles)
- Sequim School District (Sequim)

Congressional District 7

- Franklin High School (Seattle)
- Nathan Hale High (Seattle)
- Seattle Central Community College (Seattle)
- South Seattle Community College (Seattle)

Congressional District 8

- *Bellevue Continuing Education (Bellevue)
- Bellevue Comm. College (Credit Local) (Bellevue)
- Newport High School (Bellevue)

Congressional District 9

- Auburn High School (Auburn)
- Digital Bridge Technology Academy (Renton)
- *Green River Community College - Kent Campus (Kent)
- Yelm High School (Yelm)



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Cisco Networking Academy: Workforce Development in Washington

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 Washington.

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 Washington

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	12,380	15,314	2934	23.7	1441	12,210
Computer Systems Analysts	12,574	16,328	3754	29.9	1522	12,400
Network and Computer Systems Administrators	9279	11,621	2342	25.2	945	9290
Network Systems and Data Communications Analysts	7066	9125	2059	29.1	743	5900
Computer and Information Systems Managers	6315	8049	1734	27.5	582	6410

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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Washington Student and Graduate Profile

When Laura Lewkowski was 13, she was intrigued by Web design and when she was older she began studying for her Certified Internet Webmaster (CIW) exam. During this time, Laura realized her weakest area was networking, so she decided to enroll in Cisco® Networking Academy® at New Market Skills Center in Tumwater.

While there, she successfully completed all four Networking Academy courses and passed her Cisco Certified Network Associate (CCNA®) certification exam in June 2006.

Upon graduation, Laura enrolled in Northwest University's school of Business Administration and, because of her abilities, was awarded a \$4000 scholarship per semester. In addition, she has been offered a job with the university upon graduation. Laura contributes much of her success to her participation in Networking Academy.

Laura recalls always planning for the future while attending New Market Skills Center. While in school, she developed a student portfolio and attended several job fairs and lectures on interviewing skills. As a Networking Academy student, she participated in a six-day, 15-hour job-shadowing internship at the Olympia Auto Mall. There, she learned the dynamics of an office environment and the importance of interpersonal and technology skills in the workplace.

To foster her interest in technology while earning her degree, Laura applied to be a volunteer in the Northwest University's information technology (IT) department. Impressed with her abilities and certification credentials, the director of the department not only gave Laura the position, but also offered her a \$4,000 scholarship per semester to be used toward tuition.

Laura enjoys her current intern position at Northwest as it allows her to both utilize her networking skills and offset the cost of tuition. "The fact that I have already been offered a full-time job with the college once I graduate has really made all my work in the Networking Academy worth the hours of time and effort."



"The fact that I have already been offered a full-time job with the college once I graduate has really made all my work in the Networking Academy worth the hours of time and effort."

Laura Lewkowski

In addition to her studies and work, Laura has also been active in SkillsUSA, a national student leadership organization. In her first year of participation, she took home third place in the state Internetworking competition. The following year she won the gold medal and subsequently attended the National Skills USA competition.

Laura has earned an associate in arts and sciences degree as well as received nine scholarships and awards. In 2007, she was the recipient of a Cisco Networking Academy 4R Award for her achievements in the program. In addition, Laura has earned seven industry certifications which include CCNA and CIW as well as Microsoft Office Specialist in Microsoft Word, Excel, Outlook, Access, and PowerPoint.

Laura finds time to give back to her community by volunteering network assistance at the Boys and Girls Club of America, Wenatchee Skills Center, and Timberland Regional Library. She aspires to earn a degree in business administration, pursue Cisco Certified Network Professional (CCNP®) coursework, and eventually open her own nonprofit IT consulting business.

Laura has earned an associate in arts and sciences degree as well as received nine scholarships and awards. In 2007, she was the recipient of a Cisco Networking Academy 4R Award for her achievements in the program.

“If it hadn't been for the people in my life willing to take an interest and helping me, I wouldn't have tapped into the self-confidence that I have today. I am really thankful for my teachers, classmates, mentors and coworkers.” For more information on the Networking Academy at New Market Skills Center, visit: <http://www.nmvs.com/>



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