



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

Networking Academy students	1233
Female Networking Academy students	17% female
Distinct cumulative academy students (having successfully completed a course)	5242
Academies	18
Academy instructors	43
Total estimated cumulative contribution value to South Carolina academies*	\$3,367,392

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 South Carolina.

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

Table 2. Networking Academy Curricula in South Carolina

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
Number of academies by curriculum	18	39%	94%	61%	22%

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. South Carolina Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
South Carolina Students*	1233	16%	84%	0%	0%
South Carolina Academies*	18	44%	56%	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 South Carolina 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 South Carolina congressional districts.

Table 4. Networking Academies in South Carolina Congressional Districts

Number of South Carolina Congressional Districts	Number of South Carolina Congressional Districts <u>with</u> Networking Academies	Number of South Carolina Congressional Districts <u>without</u> Networking Academies	% South Carolina Congressional District Penetration
6	6	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 South Carolina 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

- *Horry-Georgetown Technical College (Myrtle Beach)
- James Island High School (Charleston)
- Socastee High School (Myrtle Beach)
- *Trident Technical College (North Charleston)

Congressional District 2

- Lexington School District One Cisco Academy (Lexington)
- *Midlands Technical College (West Columbia)
- Richland District 1 Cisco Local Academy (Columbia)

Congressional District 3

- Piedmont Technical College (Greenwood)

Congressional District 4

- Greenville Technical College (Greenville)
- *Spartanburg Technical College (Spartanburg)

Congressional District 5

- Central Carolina Technical College (Sumter)
- *Florence-Darlington Technical College (Florence)

- Floyd D Johnson Technology Center (York)
- Northeastern Technical College (Cheraw)
- Rock Hill School Dist3 Applied Tech. CTR. (Rock Hill)
- *York Technical College (Rock Hill)

Congressional District 6

- Calhoun County High School (St. Matthews)
- Garrett Academy (North Charleston)
- *Orangeburg Calhoun Technical College (Orangeburg)



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Cisco Networking Academy: Workforce Development in South Carolina

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 U.S., and Table 5 lists this information for South Carolina.

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 South Carolina

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	4689	5519	830	18	250	4450
Computer Systems Analysts	4468	5504	1036	23	234	4740
Network and Computer Systems Administrators	1824	2359	535	29	104	2330
Network Systems and Data Communications Analysts	2317	3765	1448	62	293	2130
Computer and Information Systems Managers	2348	2703	355	15	101	2440

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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South Carolina Student and Graduate Profile

After graduating high school in Texas, Scott Lewis embarked on a journey that led him to South Carolina. With few financial resources but plenty of determination, Scott was able to find success through the Cisco® Networking Academy® at Piedmont Technical College, earning straight A's and eventually becoming technical support engineer at Blue Cross Blue Shield of South Carolina. "I now have a clear direction in life. I am proud of who I am and where I am going, and I know that with the right choices and hard work, I can be successful at whatever I do."

Scott originally enrolled at Piedmont Technical College in 1997 to pursue a degree in business administration. To earn enough money for college, Scott worked nearly 60 hours each week as a bartender and waiter and lived in a friend's garage.

"Those first years were tough," Scott recalls, "So I took a break from school so I could earn some money." To help out, his manager at the restaurant where Scott worked offered Scott a room in his home and even let Scott borrow his car. "I was blown away. You don't meet people like that every day."

Through those difficult times, Scott never lost his desire to pursue his education. Even though he had never been on the Internet and considered himself "PC illiterate," when he came across a flyer promoting the Networking Academy at Piedmont Tech, Scott decided to enroll in the Networking Academy's Cisco Certified Network Associate (CCNA®) course.

"I didn't even know what Cisco was, but I knew I didn't want to wait tables forever, so I decided to take charge of my life." Soon he was taking classes full time while working part time at the college as a network technician troubleshooting networks and repairing computers.

Scott's academy instructor Norm Wiseman was a source of inspiration for Scott. "He was always there for me. I knew nothing about computers and networking before I started his class. Norm and the Networking Academy gave me the confidence to pursue my career goals."



"Networking Academy changed my life. It gave me a career path and the direction I needed to succeed."

Scott was able to take advantage of a National Science Foundation scholarship while at Piedmont Tech and graduated in 2006 with an associate's degree in computer technology. Scott's instructor wasn't surprised by Scott's success, "Scott was one of my best students and received top grades."

Scott continued working for the college until 2006 when he interviewed at Blue Cross Blue Shield of South Carolina as a desktop support technician. "I was hired the day of my interview. I believe having gone through the CCNA course gave them an idea of my capabilities."

Scott has since been promoted within the company to third level network technical support engineer. He attended a rigorous six month entry-level training program offered by his company to advance his technology skills.

Scott plans to earn his CCNA certification within the next few months. "The Networking Academy changed my life. It gave me a career path and the direction I needed to succeed. Over the three years I have been in the IT field, I have learned to seek out challenges and to never stop trying. You don't really know what you're capable of until you push yourself."

Even though he had never been on the Internet and considered himself “PC illiterate,” when he came across a flyer promoting the Networking Academy at Piedmont Tech, Scott decided to enroll in the Networking Academy’s CCNA course.

To learn more about the Networking Academy at Piedmont Technical College visit: <http://www.ptc.edu/>

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