



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

<b>Networking Academy students</b>	2679
<b>Female Networking Academy students</b>	16% female
<b>Distinct cumulative academy students (having successfully completed a course)</b>	10,650
<b>Academies</b>	52
<b>Academy instructors</b>	74
<b>Total estimated cumulative contribution value to Kentucky academies*</b>	\$6,237,382

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 Kentucky.

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

**Table 2.** Networking Academy Curricula in Kentucky

Curriculum	All	ITE	CCNA 1, 2	CCNA 3, 4	Advanced Technologies and Other*
<b>Number of academies by curriculum</b>	52	50%	88%	44%	6%

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.** Kentucky Academies and Students by Education Level

Education Level	Total Number	Secondary Schools	Community Colleges	Universities	Other
<b>Kentucky Students*</b>	2679	67%	30%	1%	1%
<b>Kentucky Academies*</b>	52	74%	22%	2%	2%

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 Kentucky 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 actively teaching 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 Kentucky congressional districts.

**Table 4.** Networking Academies in Kentucky Congressional Districts

Number of Kentucky Congressional Districts	Number of Kentucky Congressional Districts <u>with</u> Networking Academies	Number of Kentucky Congressional Districts <u>without</u> Networking Academies	% Kentucky 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 Kentucky Cisco Networking Academies by Congressional District

**Table 1.** 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

- Butler County High School (Morgantown)
- Henderson County Technology Center (Henderson)
- Marshall County Technical Center (Benton)
- Metcalfe County High School (Edmonton)
- Murray High School (Murray)
- Paducah Area Technology Center (Paducah)
- Russellville Area Technology Center (Russellville)
- Warren County ATC (Bowling Green)
- \*West Kentucky Community and Technical College (Paducah)

#### Congressional District 2

- Apollo High School (Owensboro)
- Barren County Area Training Center (Glasgow)
- \*Bowling Green Technical College-Kati (Bowling Green)
- Central Hardin High School (Cecilia)
- \*Elizabethtown Community and Technical College (Elizabethtown)
- Grayson County Technology Center (Leitchfield)

- Marion County Area Technology Center (Lebanon)
- Nelson County Area Technology Center (Bardstown)
- Shelby County Area Technology Center (Shelbyville)

### **Congressional District 3**

- \*Jefferson Community and Technical College (Louisville)
- Trinity High School (Louisville)

### **Congressional District 4**

- \*Ashland Community and Technical College (Ashland)
- C. E. McCormick Area Technology Center (Alexandria)
- Carter County Career and Technical Center (Olive Hill)
- Fleming County High School (Flemingsburg)
- Gateway Community and Technical College (Highland Heights)
- Paul G. Blazer High School (Ashland)
- Russell Area Technology Center (Russell)

### **Congressional District 5**

- Bell ATC Cisco Academy (Pineville)
- Bell County High School (Pineville)
- Cawood High School Local Cisco Academy (Harlan)
- East Ridge High – Pike County (Lick Creek)
- Evarts High School (Evarts)
- \*Hazard Community and Technical College (Hazard)
- Knott County ATC (Hindman)
- Knox County Area Technology Center (Barbourville)
- Leslie County ATC (Hyden)
- Magoffin County High School (Salyersville)
- Mayo Technical College (Paintsville)
- Morgan County ATC (West Liberty)
- Pikeville High School-Pikeville Independent (Pikeville)
- \*Southeast Community and Technical College At Cumberland (Cumberland)
- Wayne County Schools (Monticello)
- Whitley County High School (Williamsburg)

### **Congressional District 6**

- \*Bluegrass Community and Technical College (Lexington)

- Franklin County Career and Technical Center (Frankfort)
- Harrodsburg Area Technology Center (Harrodsburg)
- Jessamine Career and Technology Center (Nicholasville)
- Kentucky State University (Frankfort)
- Lincoln County ATC (Stanford)
- Montgomery County Area Technology Center (Mt. Sterling)
- Powell County High School (Stanton)



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## Cisco Networking Academy: Workforce Development in Kentucky

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 Kentucky.

**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 Kentucky**

Occupation	Employment		Employment Change		Average Annual Openings	Occupational Employment as of May 2007^
	2006	2016	Numeric	Percent		
Computer Support Specialists	5109	6098	989	19.4	162	5080
Computer Systems Analysts	5006	6399	1393	27.8	196	4800
Network and Computer Systems Administrators	2752	3711	959	34.8	127	2890
Network Systems and Data Communications Analysts	3223	4846	1623	50.4	200	2510
Computer and Information Systems Managers	2344	2888	544	23.2	97	2410

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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## Kentucky Student and Graduate Profile

Dana Brown is a pragmatic person, so when she was suddenly faced with the need to support her three children single-handedly, she began looking around for a quick way to pick up some marketable skills. She had heard from a good friend that networking skills were in demand, so when she discovered the Cisco® Networking Academy® at West Kentucky Community and Technical College (WKCTC) in Paducah, she enrolled in the network administration track.

Dana soon graduated with her associate's degree in applied science and her Cisco Certified Network Associate (CCNA®) and Microsoft Certified Systems Engineer (MCSE) certifications. She is now an instructor in the Computer Information Technology Department at Bluegrass Community and Technical College in Lexington, Kentucky.

Dana already held a bachelor's degree in molecular biology so she was used to challenge academically but had no prior information technology (IT) background. Despite her lack of experience, Dana saw the network administration track as a personal challenge and forged ahead knowing that the skills she acquired would serve her well in building a career in IT and networking.

When she first started in the academy, Dana wasn't sure she would be able to complete it. She felt the pressure of being one of the few women enrolled in the academy, and she shares, "I was terrified of the equipment and didn't know anything about cabling or running things through walls." She attributes her success at the academy to instructors John Vos and Mike Stewart. "I had fabulous teachers who knew what they were doing and knew how to teach it—a rare combination. And both were challenging and helpful and made my experience a great one," says Dana. She also enjoyed the well-equipped labs that gave her the opportunity to work with real equipment and learn skills she would need in the real world. But overall, she gives credit to John and Mike who "encouraged me and made me feel I could do it as well as the guys ... or better." Their encouragement also helped Dana manage her hectic life, which at the time, included attending school full-time, raising three teenagers, and working 12-hour shifts on the weekend in the IT department at a local tire plant. But Dana rose to the challenge and even scored a 987 out of 1000 on her CCNA certification exam.

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**When she first started in the academy, Dana wasn't sure she would be able to complete it. She felt the pressure of being one of the few women enrolled in the academy. ... But Dana rose to the challenge and even scored a 987 out of 1000 on her CCNA certification exam.**

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Dana is currently an assistant professor at Bluegrass Community and Technical College at Lexington and teaches the Networking Academy curriculum and other information technology-related classes. Despite growing up in a family of teachers, Dana did not think she would ever work in the same profession. So it came as a surprise when her love of technology converged with seemingly innate teaching abilities. Dana is now confident that her networking and teaching experience and certifications will enable her to find work anywhere she lives.

Dana's advice to others who may be interested in the Networking Academy is "Do it. Get help if it gets hard. But once you've got the skills, you've got them forever." As someone who gets bored easily, Dana likes the fact that information technology is a constantly changing field that will give her plenty of opportunities to learn and teach new things.

In retrospect, Dana says "I can't imagine what I could have done that would have turned out better. I now have skills that will serve me well. I don't think you could find anything better" Dana adds, "and I feel fortunate that the program and professors were there."

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**Dana is now confident that her networking and teaching experience and certifications will enable her to find work anywhere she lives.**

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Now that her children are grown, Dana is able to indulge her new-found passion for teaching and technology. “I do it because I love it,” says Dana. When she is not at work, Dana spends time with her family, plays with her home network, consults with local businesses, and participates in professional development activities.

For more information on the Networking Academy at West Kentucky Community and Technical College go to:

<http://business.westkentucky.kctcs.edu/it/>

For more information on the Networking Academy at Bluegrass Community and Technical College in Lexington, visit:

<http://www.bluegrass.kctcs.edu/csis/cit/>



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