

Computer Networking Program

Cisco Certified Network Associate (CCNA)

June 2018

Summary

The Los Angeles/Orange County Center of Excellence (COE) compiled this report to provide regional labor market supply and demand data related to **Cisco Certified Network Associate (CCNA)**.

Traditional labor market data is not provided in this report since CCNAs come from a wide range of backgrounds and occupations. It is important to note that there are no pre-requisites for pursuing a CCNA certification. According to study.com, exam preparation can be accomplished through self-study with textbooks and practice exams, on-site classroom programs, online courses or concentrated boot camps offered through many venues, including Cisco's authorized learning partners.¹

The following list summarizes key findings from this brief:

- In 2017, there were **266 job postings for CCNAs** in Los Angeles County.
- Of the employer job postings that specified a required education level, **60% of ads listed an Associate degree.**
- Between 2014 and 2017, community colleges in the county conferred an average of 129 awards (associate degrees and certificates) from the Computer Networking education program.

Employer Job Postings

In this research brief, real-time labor market information is used to provide a more nuanced view of the current job market, as it captures relevant job advertisements. Employer job postings are consulted to understand who is employing CCNAs and what they are looking for in potential candidates. To identify the appropriate job postings, the following occupation codes, certification, and education levels were used:

- Network and Computer Systems Administrators (15-1142)
- Computer Network Architects (15-1143)
- Computer User Support Specialists (15-1151)
- Computer Network Support Specialists (15-1152)
- Certification: Cisco Certified Network Associate (CCNA)
- Education: HS or vocational training, associate degree, or not listed

¹How to become a Cisco Certified Network Associate (CCNA):
https://study.com/articles/How_to_Become_a_Cisco_Certified_Network_Associate_CCNA.html

Top Titles

In 2017, there were 266 job ads that met the criteria described on page 1. The most common job titles are listed in Exhibit 1. Network Engineer was mentioned in 26% of all relevant job postings (70 out of 266 postings).

Exhibit 1 – Job titles (n=266)

Title	Job Postings, Full Year 2017
Network Engineer	70
Systems Administrator	33
Network Administrator	26
Systems Engineer	23
Network Technician	12
Desktop Support	11
Network Operations Center	10
Technical Support Specialist	9
Network Architect	7
Cisco Network Engineer	6

Source: Labor Insight/Jobs (Burning Glass)

Top Employers and Locations

Top employers in the county posting job ads for Cisco Certified Network Associates included Wedbush Securities, Cal Net Technology Group, SMCI, Antelope Valley Hospital, and Lassen Company. The top worksite cities in the region for these jobs were Los Angeles, El Segundo, Burbank, and Lancaster.

Advertised Education Levels

Exhibit 2 displays the education level requested by employers in online job ads; approximately 76% of job postings did not specify a level of education. The majority of employers with posted education requirements (60%) were looking for a candidate with an Associate degree.

Exhibit 2 – Advertised education requirements for CCNAs (n=63)



Source: Labor Insight/Jobs (Burning Glass)

Education and Training

In Los Angeles County, six community colleges have conferred awards in the computer networking program that could potentially train students for a position as a Cisco Certified Network Associate. Between 2014 and 2017, there was an average of 129 community college awards conferred annually across one program: Computer Networking (0708.10).

It is important to note that an award is not equivalent to a single person in search of a job opening, since a student may earn more than one award (e.g. an associate degree and a certificate).

Exhibit 3 – CCC Student Awards (by TOP and College)

TOP Code	Program	College	2014-2015 Awards	2015-2016 Awards	2016-2017 Awards	3-Yr Award Average
0708.10	Computer Networking	Cerritos	5	5	10	7
		LA City	9	6	11	9
		LA Pierce	16	21	32	23
		Long Beach	12	11	25	16
		Mt. SAC	11	2	9	7
		West LA	35	55	47	46
Total/Average			110	122	154	129

Source: California Community Colleges Chancellor's Office MIS Data Mart

Student Outcomes

The CTE LaunchBoard provides student outcome data on the effectiveness of CTE programs. The following student outcome information was collected from exiters of the Computer Networking Taxonomy of Program (TOP) code (0708.10) in Los Angeles County for the 2015-16 academic year.

Computer Networking (0708.10)

- The median annual wage after program completion is \$32,871
- 60% of students are earning a living wage
- 60% of students are employed within six months after completing a program

Source: CTE LaunchBoard

Sources

Labor Insight/Jobs (Burning Glass), California Community Colleges Chancellor's Office Management Information Systems (MIS) Data Mart, CTE LaunchBoard, and Statewide CTE Outcomes Survey

Notes

Data included in this analysis represents the labor market demand for positions most closely related to Cisco Certified Network Associates (CCNA).

Real-time labor market information captures job post advertisements for occupations relevant to the field of study and should not be used to establish current job openings, because the numbers may include duplicate job postings or postings intended to gather a pool of applicants. Real-time labor market information can signal demand and show what employers are looking for in potential employees, but is not a perfect measure of the quantity of open positions.