

IMPERIAL COMMUNITY COLLEGE DISTRICT
REVIEW OF CAREER TECHNICAL EDUCATION TRAINING PROGRAMS
2016

CISCO CCNA DISCOVERY

I. Program Description

The Cisco CCNA Discovery program provides general networking theory, practical experience, soft-skills development, and opportunities for career exploration. It teaches networking based on application, covering networking concepts within the context of network environments students may encounter in their lives – from small office and home office (SOHO) networking to more complex enterprise and theoretical networking models later in the curriculum. The program prepares students for two different Cisco certification exams. After completing the program, students will be prepared to take the industry-standard Cisco CCNA certification exam. In addition, students may opt to take the CCENT certifies the practical skills required for entry-level information and communication technology skills and demonstrates a student's aptitude and competence to work in an environment that features Cisco networking devices and software.

A. Degree

Associate in Science, Cisco CCNA Discovery

B. Certificate

Certificated of Achievement, Cisco CCNA Discovery

II. Career Opportunities

Network and Computer Systems Administrators
Programmer
Applications Programmer
Systems Programmer
Network technician
Support engineer
Network administrator
Network designer
Network engineer

III. Industry Certification/Accreditation

CompTIA A+
Cisco CCENT
Cisco CCNA

IV. Industry Recognized Credentials (IRC)



V. Labor Market Demand

The Cisco CCNA Discovery program at Imperial Valley College meets a documented labor market demand. Employment trends for this field are derived from a variety of sources. These are listed below:

A. Employment Trends

Occupation	TOP Code	SOC Code	2012	Average Job Openings per Year
Computer and Information Systems Managers	0708.00	113021	40	1
Network and Computer Systems Administrators	0708.00	151142	60	2
Computer Network Support Specialists	0708.00	151152	50	2
Total	150	5*		

*State Employment Development
Occupational Employment Projections 20012-2022
Imperial County
<http://www.labormarketinfo.edd.ca.gov/CommColleges/>

B. Employment Trends Assessment

The connection of billions of people, processes, data, and things into an Internet of Everything (IoE) will require 4.5 million developers and generate \$19 trillion in value by 2020. Cisco invests in global research to identify what jobs are growing fast and the skills employees need to do those jobs. Networking Academy content will get you started on the right path to careers in IoE.

VI. Other Regional Programs

There are no other similar training programs in Imperial Valley.

VII. Employment and Completion

(Based on State Core Measures Report, 2012-2013, 2013-2014 & 2014-2015)

Core 2: Completions. Measures completions for Career Technical Education student concentrators. Receipt of a certificate or degree or enrollment in a California four-year public university with or without a degree is considered a completion.

Fiscal Year Planning	Program	Total Completions	IVC Completion Rate	State Avg. Completion Rate
2014-2015	Network and Computer Systems Administrators	0	0	78.40%
2013-2014	Network and Computer Systems Administrators	2/2	100%	78.46%
2012-2013	Network and Computer Systems Administrators	3/4	75%	75.32%

PERKINS IV Program Performance Trend Report
 Core Indicator Two – Total Completions – Certifications, Degrees and Transfer
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_coreIndi_TOPCode.aspx

Core 3: Persistence and Transfer. The percent of Career Technical Education student concentrators (students who have successfully completed a minimum of 12 units of related Career Technical Education coursework) who persist in education at the community college level or transfer to a two or four-year institution.

Fiscal Year Planning	Program	Persistence	IVC Persistence Rate	State Avg. Persistence Rate
2014-2015	Network and Computer Systems Administrators	5/5	100%	78.60%
2013-2014	Network and Computer Systems Administrators	5/5	100%	87.19%
2012-2013	Network and Computer Systems Administrators	7/8	87.50%	85.40%

PERKINS IV Program Performance Trend Report
 Core Indicator Three – Persistence and Transfer
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_coreIndi_TOPCode.aspx

Core 4: Student Placement. The percent of Career Technical Education students who have earnings the following year (as found in the unemployment insurance base wage file) or are in an apprenticeship program, or the military.

Fiscal Year Planning	Program	Placements	IVC Placement Rate	State Avg. Placement Rate
2014-2015	Network and Computer Systems Administrators	0	0	61.31%
2013-2014	Network and Computer Systems Administrators	0/0	0	70.90%
2012-2013	Network and Computer Systems Administrators	1/1	100%	61.61%

PERKINS IV Program Performance Trend Report
 Core Indicator Four – Employment
https://misweb.cccco.edu/perkins/Core_Indicator_Reports/Summ_coreIndi_TOPCode.aspx

Pursuant to the FCMAT report, CTE programs are also being evaluated for student demand, certificate and program completion, local labor demand, and a facility utilization for CTE programs in the new CTE building.

VIII. Enrollment Trends

Course	Year	Sections	Avg. Class	Fill Rate
CIS160	2014-2015	1	23	95.83%
CIS160	2013-2014	1	25	104.17%
CIS160	2012-2013	1	16	66.67%

Course	Year	Sections	Avg. Class	Fill Rate
CIS162	2014-2015	1	25	104.17%
CIS162	2013-2014	1	17	70.83%
CIS162	2012-2013	2	21	87.50%

Course	Year	Sections	Avg. Class	Fill Rate
CIS163	2014-2015	1	15	62.50%
CIS163	2013-2014	1	13	54.17%
CIS163	2012-2013	1	17	70.83%

Course	Year	Sections	Avg. Class	Fill Rate
CIS164	2014-2015	1	10	41.67%
CIS164	2013-2014	1	11	45.83%
CIS164	2012-2013	0	0	0.00%

Course	Year	Sections	Avg. Class	Fill Rate
CIS165	2014-2015	1	9	37.50%
CIS165	2013-2014	1	7	29.17%
CIS165	2012-2013	0	0	0.00%

IX. Completions

	2014-2015		2013-2014		2012-2013	
	Degrees	Certificates	Degrees	Certificates	Degrees	Certificates
Cisco CCNA Discovery	3	0	0	0	0	0

X. FTES/FTEF Analysis

Year	FTES	FTEF	FTES/FTEF
2014-2015	26.85	2.8	9.59
2013-2014	22.38	2.73	8.29
2012-2013	21.92	2.26	9.70

XI. Facility Utilization Plan

XII. SWOT Analysis

<p>Strengths Cisco Networking Academy identifies and develops the skills people and businesses need to thrive in a changing economy. A global network of 500+ Academy Support Centers (ASCs) and Instructor Training Centers (ITCs) guide local academies to success. Our program has grown slowly, but consistently. Success and retention rates are strong.</p>	<p>Weaknesses The Valley is an agricultural area and the job opportunities in the IT field are somewhat limited.</p>
<p>Opportunities An exclusive online community supports active and engaged learning, career development, and collaboration.</p>	<p>Threats Limited local job opportunities may limit the number of students in the valley with an interest in the IT field.</p>

XIII. Program Evaluation

The CISCO CCNA program was approved in the fall 2013 and has not produced the level of student interest to continue to make this program viable. The Perkins performance, although compatible with State targets, is based on a very low student participation over the last three years. Labor market demand is also low in Imperial Valley for CCNA certified technicians. With low student participation rates, the program also has a low productivity ratio of 9.70. Three degrees were awarded in 2014-2015, which is an acceptable rate given the timing of the start of the program. The program is adding a Distance Education option which may increase student participation.

XIV. Recommendations

It is recommended that the CISCO CCNA Academy be considered for possible elimination due to low participation, low fill rates, low local labor demand, and low productivity. Final determination for the continuation of the program shall be made in the spring after consideration of the following elements:

- Possible restructure of program to include hybrid courses that will add student enrollment.
- The restructure of the program to eliminate the upper two level course work and change then CISCO program to a CCNET (Cisco Certifies Entry Networking) and eliminate the CCNA.
- Solicit input from employers and industry representatives to re-evaluate the local labor market demand for program completers.