

**IMPERIAL VALLEY COLLEGE DISTRICT  
REVIEW OF CAREER TECHNICAL EDUCATION TRAINING PROGRAMS  
2013**

**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  
Computer Systems Analyst  
Network Architect  
Systems Security Administrator  
Wireless Network Engineer  
Network Engineer

**III. Industry Certification/Accreditation** (to be completed by faculty)

**CompTIA A+ certification**

**CCENT (Cisco Certified Entry Networking Technician) certification**

**CCNA (Cisco Certified Network Associate) Routing & Switching certification**

**IV. Industry Recognized Credentials (IRC)** (to be completed by faculty)

**A+ Certification (Comp TIA)**

**CCENT Certification (Cisco System)**

**CCNA Certification (Cisco Systems)**

**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 (Employment Development Department):

| Occupation                                  | TOP Code | SOC Code | 2008 | Average Job Openings per Year |
|---|----------|----------|------|-------------------------------|
| Network and Computer Systems Administrators | 0708.00  | 151142   | 40   | 1*                            |

\*Same data as 2012. No updates from State Employment Development  
Occupational Employment Projections 2008-2018  
Imperial County

<http://www.labormarketinfo.edd.ca.gov/CommColleges/>

**B. Employment Trends (Faculty Assessment):**

Network and Computer Systems Administrators, 2020 projected +28%  
Info Security Analysts, Computer Network Architects, 2020 projected +22%  
Computer Systems Analysts, 2020 projected +22%  
Computer and Information Research Scientists, 2020 projected 19%  
Total Computer Occupations, 2020 projected 22%<sup>1</sup>

**VI. Other Regional Programs**

There are no other similar training programs in Imperial Valley.

**VII. Employment and Completion**

(Based on State Core Measures Report, 2011-2012, 2012-2013 & 2013-2014)

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 |
|----------------------|---|-------------------|---------------------|---------------------------|
| 2013-2014            | Network and Computer Systems Administrators | 2/2               | 100%                | 78.46%                    |
| 2012-2013            | Network and Computer Systems Administrators | 3/4               | 75%                 | 75.32%                    |
| 2011-2012            | Network and Computer Systems Administrators | 0/1               | 0                   | 77.91%                    |

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](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 |
|----------------------|---|-------------|----------------------|-----------------------------|
| 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%                      |
| 2011-2012            | Network and Computer Systems Administrators | 6/7         | 85.71%               | 86.48%                      |

PERKINS IV Program Performance Trend Report

Core Indicator Three – Persistence and Transfer

[https://misweb.cccco.edu/perkins/Core\\_Indicator\\_Reports/Summ\\_coreIndi\\_TOPCode.aspx](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 |
|----------------------|---|------------|--------------------|---------------------------|
| 2013-2014            | Network and Computer Systems Administrators | 0/0        | 0                  | 70.90%                    |
| 2012-2013            | Network and Computer Systems Administrators | 1/1        | 100%               | 61.61%                    |
| 2011-2012            | Network and Computer Systems Administrators | 1/1        | 100%               | 66.42%                    |

PERKINS IV Program Performance Trend Report  
Core Indicator Four – Employment

[https://misweb.cccco.edu/perkins/Core\\_Indicator\\_Reports/Summ\\_coreIndI\\_TOPCode.aspx](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 | CAP | Fill Rate |
|--------|-----------|----------|------------|-----|-----------|
| CIS160 | 2012-2013 | 1        | 16         | 24  | 66.67%    |
| CIS160 | 2011-2012 | 1        | 22         | 24  | 91.67%    |
| CIS160 | 2010-2011 |          |            |     |           |

### IX. Completions

|                      | 2012-2013 |              | 2011-2012 |              | 2010-2011 |              |
|----------------------|-----------|--------------|-----------|--------------|-----------|--------------|
|                      | Degrees   | Certificates | Degrees   | Certificates | Degrees   | Certificates |
| Cisco CCNA Discovery | 0         | 0            | 0         | 0            | N/A       | N/A          |

### X. FTES/FTEF Analysis

| Year      | FTES  | FTEF | FTES/FTEF |
|-----------|-------|------|-----------|
| 2012-2013 | 21.92 | 2.26 | 9.70      |
| 2011-2012 | 11.64 | 1.06 | 10.98     |
| 2010-2011 | 5.58  | 0.66 | 8.45      |

\*Degree started in AY12-13, individual courses offered earlier.

### XI. Facility Utilization Plan (to be completed by faculty)

### XII. SWOT Analysis (to be completed by faculty)

|   |  |
|---|--|
| <p><b>Strengths</b><br/> <i>The Cisco program provides students with the technical and soft skills needed to successfully compete in the current job market.<br/>                     The program is geared for non-traditional, high school graduates and high schools seniors with concurrent registration.</i></p> | <p><b>Weaknesses</b><br/> <i>The CCNA Certification requires a two year commitment for the four Cisco courses, some students will elect to break at two years and get the CCENT certification. They may choose to return for further Cisco training but that is difficult to plan for.</i></p> |
|---|--|

|   |  |
|---|--|
| <b><i>Opportunities</i></b><br><b><i>The Information Communication Technology (ICT) employment sector is growing and projected to be +22% in the year 2020.</i></b> | <b><i>Threats</i></b><br><b><i>Funding reductions from local, state and federal sources.</i></b> |
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**XIII. Program Evaluation** (to be completed by EWD office)

**XIV. Recommendation** (to be completed by EWD office)

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<sup>1</sup> <http://www.cisco.com/web/learning/netacad/us-can/students.html>