CALIFORNIA COMMUNITY COLLEGES
LAOC|RC
los angeles | orange county | regional consortia

www.laocrc.org
714.480.7564
laocrc@rsccd.edu

PROGRAM APPROVAL APPLICATION
NEW or SUBSTANTIAL CHANGE or LOCALLY APPROVED
(This application may not exceed 3 pages)

Fill In Form

Cyber Security Analyst Certificate
Proposed Program Title

FALL 2017
Projected Program Start Date

FULLERTON COLLEGE
College

North Orange County Community College District
District

Contact Information

DR. DOUGLAS BENOIT
Voting Member

Dean, Business and CIS Divison
Title

714-992-7033
Phone Number

dbenoit@fullcoll.edu
Email

Goal(s) of Program (Check all that apply):

☒ Career Technical Education (CTE) ☐ Transfer ☐ Other

Type of Program (Check all that apply):

☐ Certificate of Achievement 12-17 (or 17-27 quarter) units ☒ Certificate of Achievement 18+ semester (or 27+ quarter) units

☐ Associate of Science Degree ☐ Associate of Arts Degree

Reason for Approval Request (Check One):

☒ New Program ☐ Substantial Change ☐ Locally Approved

Program Information

0702.00	Recommended Taxonomy of Program (TOP) Code
	Units for Major-Degree
	Total Units for Degree
30	Required Units-Certificate

Written Form

1. **Insert the description of the program as it will appear in the catalog. (See PCAH pp. 142 and 170)**

   The Cyber Security Analyst Certificate (level two) is designed to prepare students who intend to pursue employment in entry-level cyber-security/forensics positions. The program provides additional technical and managerial skills to analyze cyber security threats from a variety of perspectives at the enterprise and national levels. This certificate option requires completion of the Cyber Security Technician Certificate and additionally provides advanced courses in ethical hacking, cyber-security tools and networking. This certificate requires 30 units. A minimum grade of C is required in each course taken.

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2. Provide a brief rationale for the program.

This is the second level of three tiered certificates. Enhanced cyber-security programs were recommended by the advisory group, it is one of the fastest growing CTE programs and FC is part of a growing network of colleges working together to offer cyber-security program

3. Summarize the Labor Market Information (LMI) and employment outlook (including citation for the source of the data) for students exiting the program. (See PCAH pp. 85-88, 136, 147, 148, 165, 168, and 176)

		2014 Jobs	2017 Jobs	2014-17 Change	% Change 2014-17	Openings (New + Replacements)	Annual Openings	10% Hourly Earnings	Median Hourly Earnings
15-1122	Information Security Analysts	7,502	8,798	1,296	17.30%	1,694	565	$29.87	$49.61

The three-year average supply from regional colleges is 135 per year.
Regional annual openings for the SOC code listed is 117, but when combined with related SOC Codes the demand is 1280 approximately indicating a gap of 1145 hires.
Source: http://coeccc.net/supply-demand/ For Orange County

4. List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (There is space for 10 listings, if you need more, please contact laocrc@rsccd.edu)

College	Program	Who You Contacted	Outcome of Contact
Cerritos College	Business CIS	Nick Real	No response.
Citrus College	System Administration Cert	Jim Lancaster	No response.
Coastline Community College	Systems Administration Cert	Nancy Jones	No response.
East Los Angeles College	Office Systems Specialist	Christopher Whiteside	No response.
El Caminio College	Systems Administration Cert	Virginia Rapp	No response.
Irvine Valley College	Systems Administration Cert	Corine Doughty	No response.
Los Angeles City College	Computer Operator Cert	Alex Davis	No response.
Orange Coast College	CIS	Lisa Knuppel	No response.
Rio Hondo College	Systems Administration	Bruce Nobel	No response.

5. List all courses required for program completion, including core requirements, restricted electives and prerequisites. (There is space for 20 listings, if you need more, please contact laocrc@rsccd.edu). (See PCAH pp. 143 and 171)

Required Courses (18 units) from Level One (Technician)   Units
CIS 107 F   Introduction to Operating Systems   3
CIS 109 F   Personal Computer Security   2
CIS 160 F   Introduction to Cyber Security   3
CIS 180 F   Introduction to Networking Concepts   4

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| CIS 183 F | Network Security Fundamentals | 3 |
| CIS 222 F | Computer Scripting | 3 |

Required Courses (12 units)		Units
CIS 165 F	Cyber Security and Networking/Web	3
CIS 168 F	Cyber Security Software Tools	3
CIS 171 F	Ethical Hacking	3
CIS 290 F	Linux / UNIX Operating System	3
	Total Units	30

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6. **Include any other information you would like to share.**