

PROGRAM APPROVAL APPLICATION NEW or SUBSTANTIAL CHANGE OF LOCALLY APPROVED

(This application may not exceed 3 pages)

Fill In Form							
Air Conditioning and Refrigeration Project Management Certificate Proposed Program Title		Fall 2017 Projected Program Start Date					
Cypress College College			North Orange County District	y Community College District			
Contact Information							
Dr. Steve Donley Voting Member		Dean, Career Technical Education & Econ. Dev. Title					
(714) 484-7233 Phone Number			sdonley@cypresscollege.edu Email				
Goal(s) of Program (Check all that apply):							
☐ Career Technical Education (CTE) ☐ Transfer			Other				
Type of Program (0	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		ge	Locally Approved				
Program Informati	on						
0946.00	Recommended <u>Taxonomy of Program (TOP) Code</u>						
	Units for Major-Degree						
	Total Units for Degree						
21	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)

Minor decisions can have a major impact to the success of a HVAC/R project. The Air Conditioning & Refrigeration Project Management Certificate examines industry specific technical management skills for quality project control. To earn this certificate, complete the required courses as listed with a minimum grade of "C". At least 50% of all major course work must be completed at Cypress College.

2. Provide a brief rationale for the program.

The Cypress College **Air Conditioning and Refrigeration Project Management Certificate** provides students with a career path for attaining the foundational skills, practical knowledge and hands-on technical training necessary



to successfully manage projects involving construction, maintenance, diagnosis and repair HVAC systems and installations.

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)

The stated goals and objectives for this Certificate will fulfill the college's mission and curriculum offerings. The beginning salary of an HVAC technician, Installation, Maintenance & Repair technician, and construction related project management specialists is approximately \$23.88 per hour according to the Bureau of Labor Statistics. Graduates are currently in very high demand, with more openings in the Orange and Los Angeles counties than Cypress can provide graduates. Annual job openings are estimated at 1,722 per year in Los Angeles and Orange counties, with Cypress graduates finding employment within and beyond these two counties. Source: Employment Department, Job Outlook for California Community College Educational Programs, http://www.calmis.ca.gov

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
Citrus College	AC/R Non-Credit	Dr. Jim Lancaster, <u>ilancaster@citruscollege.edu</u>	Supports
Coastline College	Building Codes Tech.	Dr. Nancy Jones, <u>njones@coastline.edu</u>	
El Camino College	AC/R and Env. Tech.	Virginia Rapp, vrapp@elcamino.edu	
Fullerton College	Construction Engr.	Doug Benoit, dbenoit@fullcoll.edu	Supports
LA Trade Tech	Construction Trades	Marcia Wilson, wilsonmr@lattc.edu	
		Alex Davis, davisaa@lacitycollege.edu	
Long Beach CC	Construction Trades	Michelle Grimes-Hillman, mhillman@lbcc.edu	
Mt. SAC	HVAC	Jemma Blake-Judd, jbjudd@mtsac.edu	Supports
Orange Coast	HVAC	Lisa Knuppel, lknuppel@occ.cccd.edu	
Pasadena City	Construction Engr.	Rocco Cifone, rxcifone@pasadena.edu	Supports
Santa Ana College	HVAC	Bart Hoffman, Hoffman bart@sac.edu	Supports

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)

Course Number	Course Title	Units
AC/R 100 C	Principles of Thermodynamics and Heat Transfer	3
AC/R 110 C	Air Conditioning I	3
AC/R 120 C	Piping Practice, Tools and Safety	2
AC/R 215 C	Codes and Estimating for HVACR	3
AC/R 260 C	Crew Leadership-Field Supervisor	2
AC/R 265 C	Project Management	3
AC/R 055 C	Technician Customer Relations	2
CIS 216 C	Microsoft Project	3

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



This program is being revised to include Lexus with Toyota