

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

Fill In Form

Environmental Technology /Health and Safety	Fall 2016
_____	_____
Proposed Program Title	Projected Program Start Date
Rio Hondo College	Rio Hondo Community College District
_____	_____
College	District

Contact Information

Bruce Noble	Deputy Sector Navigator Energy Eff. + Utilities-LA
_____	_____
Voting Member	Title
(562) 463-7354	Bruce.noble@riohondo.edu
_____	_____
Phone Number	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

0303.00
 _____ Recommended [Taxonomy of Program \(TOP\) Code](#)

NA
 _____ Units for Major-Degree

NA
 _____ Total Units for Degree

22-23
 _____ 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 Environmental Technology Health and Safety Certificate is designed to prepare students to enter the environmental health and safety field or upgrade working individuals with environmental health and safety field technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in

compliance with governmental regulations and at the same time protect human health and the environment.

2. Provide a brief rationale for the program.

This application is being put forward to allow for the augmentation of an already existing Environmental Technology AS Degree (28 units) and COA (30 units) with a number of fewer-unit COAs that are stackable. One, of which, is the Environmental Technology/Health and Safety Certificate.

The Environmental Technology Health and Safety Certificate provides students with the courses that all Environmental Health and Safety Technicians would need to be successful in the environmental health and safety field. The certificate is 22-23 units, so it is designed to be completed within a few semesters and to allow for a rapid transition as an intern/employee into the environmental field. The relatively low unit certificate is also designed to increase the number of certificate “completers” in the Environmental Technology Program. Additionally, the lower unit Environmental Technology Field Technician Certificate contains the core courses that this Health and Safety Certificate requires for completion and therefore they are “stackable”. The “stackable” nature of these certificates will allow students to be completers with multiple certificates.

A review of the data from the CCCCO Program Awards Summary Reports over the last two years (2013-2015) indicates that four of the LAOC/RC schools with the ET TOPS Code (030.03) (Golden West, Irvine Valley, Santa Monica, and Rio Hondo) show a combined AS degree and Certificate completion rate of 34 in 2013-2014 and 19 in 2014-2015. These numbers indicate the need to develop and implement new reduced unit certificates to not only stabilize the number of program awards but most importantly to increase the number of completers.

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)

Many of the ET interns are placed in full and part time positions with the same companies that they are interning with, when the internship opportunity ends. This is partly because of their newly gained experience in the field and because they have the proper coursework and required certifications to work successfully in the environmental field. The new Health and Safety certificate will definitely enhance the success rates of such job placement.

In the US, there are presently about 223,000 workers in the Health and Safety field, however, the Bureau of Labor Statistics estimates that there will be an 11% (247,530 in 2022) rise in available jobs in the health and safety field over the next few years. This will be due to new health and safety regulations and laws that are constantly evolving, and to assure the safety of our workers, more staff will be needed.

Data from the California LMI Department indicate that workers with a SOC of 19-4091 (Environmental Science and Protection Techs, including Health) and a SOC of 29-9012 (Occupational Health and Safety Technicians) will have 914 and 259 jobs in 2016 with 83 and 13 annual openings, respectively. The median incomes will be \$21.63/hr and \$22.26/hr, respectively.

Additional job titles include: Environmental Health Specialist, Environmental Specialist, Public Health Sanitarian, Sanitarian, and Sanitarian Specialist.

The above data show that annual ET completers have averaged about 26/year over the past 2 years (2013-2014 and 2014-2015), whereas, the combined annual openings in Environmental Health and Safety related positions number nearly 100. This indicates not only a more than adequate number of available ET jobs for these completers, but it also indicates the room for expanding/increasing the number of ET completers that the ET Health and Safety certificate is designed to do.

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@sccollege.edu)

College	Program	Who You Contacted	Outcome of Contact
*N/A (None found)			

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@sccollege.edu). (See PCAH pp. 143 and 171)

Courses	Course Number	Course Title	Units
Environ. Tech.	ET 130	Health Effects of Hazardous Materials	3
"	ET 230	Safety and Emergency Response	4
"	ET 250	Fundamentals of Safety & Health I	3
"	ET 251	Fundamentals of Safety & Health II	3
"	ET 260	Sampling and Analysis	4
"	ET 290	Internship/Cooperative Work Experience	1-2
Biology	BIOL 120	Environmental Biology	3
Biology	BIOL 120L	Environmental Biology Lab	1

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

*Did not find any local community colleges with a Health and Safety Certificate/Program.