

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

Fill In Form

Proposed Program Title
 Heavy Equipment Electrical and Comfort Systems Service Technician

Projected Program Start Date
 Fall 2017

College
 Rio Hondo College

District
 Rio Hondo Community College District

Contact Information

Voting Member
 Bruce Noble

Title
 Deputy Sector Navigator

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 (562) 463-7354

Email
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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

0947.20 Recommended [Taxonomy of Program \(TOP\) Code](#)

_____ Units for Major-Degree

_____ Total Units for Degree

12 Required Units-Certificate

Written Form

1. Insert the description of the program as it will appear in the catalog.

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will help one pass the certification license 9EPA Rule 1411) for Motor Vehicle Air Conditioning Service. The certificate is designed to prepare an individual for entry-level employment as a Heavy Equipment Electrical/Electronic Systems and/or Heating, Ventilation and Air Conditioning Service/Repair Technician.

1. Provide a brief rationale for the program.

The goal of the Certificate of Achievement in Heavy Equipment Electrical and Comfort Systems Service Technician is to prepare the students for entry-level employment as an electrical/electronic technician able to service and repair a multitude of heavy equipment subsystems such as electrohydraulic and multiplexed systems, and/or HVAC systems. Based on hands-on experience students will be able to also perform minor repairs and adjustments of the systems studied.

2. Summarize the Labor Market Information (LMI) and employment outlook (including citation for the source of the data) for students exiting the program.

COE projects 157 annual openings for occupations listed under the appropriate SOC and TOP codes for the program in the immediate future. It also indicates how large the gap between the industry needs and the numbers of students ready to enter the work force in the heavy equipment field it really is.

SOC Code	TOP Code	Occupational Title	2015 Jobs	2018 Jobs	2015-18 Change	% Change 2015-18	Openings (New + Replacements)	Annual Openings	10% Hourly Earnings	Median Hourly Earnings
49-3042	0947.20	Mobile Heavy Equipment Mechanics, Except Engines	3,643	3,771	127	3.5%	394	131	\$17.95	\$28.85
49-3043	0947.20	Rail Car Repairers	415	444	29	7.1%	77	26	\$12.03	\$18.22
Grand Total			4,058	4,215	157	3.9%	471	157	\$17.34	\$27.76

www.coeccc.net – March 2017 LMI Data – Los Angeles County, Orange County

TOP6 - Program Title	2012-13	2012-14	2014-15	2015-16	Latest 3 Yr Avg
0947.20 - Heavy Equipment Maintenance					
Rio Hondo		2	6	3	4
Santa Ana		8	36	5	16
Santiago Canyon		-	-	-	-
Grand Total		10	42	8	20

www.coeccc.net – March 2017 – Demand and Supply – Los Angeles County, Orange County

3. 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@rscsd.edu)

College	Program	Who You Contacted	Outcome of Contact
Citrus College	Diesel Technology	James Lancaster, CTE Dean (626)852-6403, jlancaster@citruscollege.edu	No Response
Los Angeles Trade Technical College	Diesel Technology	Jess Guerra, Department Chair (213) 763-3919, GuerraJ@lattc.edu	No Response
Long Beach City College	Diesel Technology	Donald Sullivan Department Head, (562) 938-3071 dsullivan@lbcc.edu	No Response
Santa Ana College	Heavy Equipment Maintenance	Glen Hammonds (714) 564-6664- hammonds_glen@sac.edu	Santa Ana College is supportive of Rio Hondo's proposed smaller stackable certificates of achievement
Santiago Canyon College	Heavy Equipment Maintenance	Southern California Operating Engineers Joint Apprenticeship and Training Committee (562) 695-0611	No Response

4. 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@rscsd.edu). (See PCAH pp. 143 and 171)

Courses	Course Number	Course Title	Units
Required	HET 107	Heavy Equipment Operation, Performance Testing and Adjusting	4
Required	HET 140	Heavy Equipment Electrical Diagnostics	4
Required	HET 240	Heavy Equipment Heating, Ventilation and Air Conditioning.	4

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

NOI Submitted – December 2016