

EQUIPMENT NEEDS ASSESSMENT APPLICATION
Fall 2014

Name of Person Submitting Request:	Tarif Halabi
Program or Service Area:	HVAC/R
Division:	Applied Technology, Trans., and Culinary arts
Date of Last Program Efficacy:	Spring 2015
What rating was given?	Continuation
Equipment Requested	Air Conditioning Controls Trainer, Reverse Cycle Refrigeration trainer, various RELAYS, CAPACITORS, CONTACTORS, TEMPERATURE SENSORS, SOLENOID VALVES, COILS, REFRIGERANTS DRYERS AND THERMOSTATS AND PRESSURE CONTROLS, SAFETY SOFTWARE AND WIRE CONNECTORS
Amount Requested:	\$89,500
Strategic Initiatives Addressed: (See Appendix A: http://tinyurl.com/15oqoxm)	3.2,6.1

Replacement X Growth

1. Provide a rationale for your request.

The recommendations of the industry advisors in addition to faculty and prospective employers tell us that an updated Laboratory , with state of the art trainers is really a requirement since our only lab has pretty outdated equipment that has been used for over thirty years to teach the heating and cooling cycle concepts. In fact some of our apparatus have been made by our faculty and students. The industry is requiring new trainees or graduates to be trained with state of the art trainers that are more commonly found in the field and thus their recommendations as stated above.

Our HVAC program at SBVC has provided training for our students for over 40 years with increasing demand as we see that the climate in the Inland Empire tends to be in the hot zone. In addition, the construction boom seen in our areas have commanded an above average demand for HVAC technicians to not only install but to repair and support existing ever-increasing systems. Therefore, a viable and up to date program is critically needed to support that demand and hence the industry standard trainers that we are requesting will help achieve that goal.

2. Indicate how the content of the latest Program Efficacy Report and current EMP data support this request. How is the request tied to program planning? (*Reference the page number(s) where the information can be found on Program Efficacy.*)

Page 5 of the last efficacy report indicates that the evaluators found the equipment “looked decades old and outdated.” The HVAC Occupational Outlook report for Riverside and San Bernardino County, prepared by the Center of Excellence in April 2760012, “indicate(s) a healthy 5% growth in the year 2011-16” HVAC/Refrigeration Installers and Mechanics accounted for more than 2,760 jobs. By the year 2016, the total job openings are projected to increase by 127 new jobs and 198 replacement jobs. One of the important findings of the study is that non-residential plumbing and HVAC contractor firms will grow by 20%. Thus there is demand for well-trained HVAC/R technicians and it will continue to grow. Thus this program is

clearly needed by our community. If the program is needed then it should have adequate budget to support the program.

3. Indicate if there is additional information you wish the committee to consider (*for example, regulatory information, compliance, updated efficiency, student success data, planning, etc.*).

The latest EMP data provide us with a picture that our program remains stagnant in some respect. That is partially due to not having an adequate budget, nor a full time faculty, and most importantly outdated training equipment. Bringing our program laboratory up to today's standards and introducing smart controls training to increase efficiency and energy saving regimes will definitely create a more sought after program and thus enrollment of interested students and will encourage employers to seek our students who will become more valuable to them because of their up to date training. This has a direct effect on program growth.

4. Evaluation of initial cost, as well as related costs (including any ongoing maintenance or updates) and identification of any alternative or ongoing funding sources (*for example Department, Budget, Perkins, Grants, etc.*).

Allocated budget to the program has been historically miniscule averaging \$1500 annually which is not realistic. Only until the last two yaers with the help of the division dean as well as the Department chair who is the Electricity/Electronics chair, were we able to secure a Perkins Budget of about \$11,000 which is barely enough cover supply costs such as copper and welding supplies needed for one of the classes as well as replacement parts and consumables such as refrigerants and lubricants needed for the classes as a whole. Therefore the equipment needed to update our labs are cannot be obtained from such miniscule shoestring budgets.

The current Dean is also seeking out grants to supplement our budgets and to empower the purchasing of our badly needed equipment. He was able to secure monies to obtain one new advanced trainer that we are in the process of obtaining through grant monies.

5. What are the consequences of not funding this equipment?

Program will stagnate and enrollment may begin to decline as a result of not having the needed updates to the equipment to bring it in line with industry standards. The program will stay in its classical form with extremely old laboratory equipment that may basically maintain a program that would not sustain any major growth.