

EQUIPMENT NEEDS ASSESSMENT APPLICATION
Fall 2015

Name of Person Submitting Request:	Tarif Halabi
Program or Service Area:	Electricity/Electronics
Division:	Applied Technology, Trans. & Culinary Art
Date of Last Program Efficacy:	Spring 2/10/13
What rating was given?	Continuation
Equipment Requested	Supplemental Test Equipment, Automation PLC Trainers with full RsLogix software , Communication Trainers
Amount Requested:	\$50,000
Strategic Initiatives Addressed: (See Appendix A: http://tinyurl.com/15oqoxm)	3.2,6.1

Replacement

Growth

1. Provide a rationale for your request.

We have made partial progress to bringing our programs in-line with current industry standards but continue to need to purchase additional test equipment in addition to the ones purchased in the last two years to complete the task. In addition, in order to continue to improve and update our communications technology and industrial automation programs, we are in desperate need of a Programmable Logic Controller (PLC) Laboratory to simulate the automation and industrial system control environment of a modern industry setting and to be used to control our new mechatronics trainers that we will be getting.. The PLC lab is needed for our program to provide adequate training to students. This field is rapidly becoming a major area of job growth in the Inland Empire as a result of the explosive growth of logistics and distribution centers (Target, Amazon, Stator Bros, etc.) that now dominate the job market in our area. We have been asked by Target, California Steel Industries, Inc. and Amazon to provide students with PLC training and knowledge so that they can be employed in their companies. And as a result, we are developing a more advanced industrial controls class that would utilize that equipment. Furthermore, with respect to our electronic communications technology program, we would like to obtain microwave trainers and systems to update the student training capabilities with the latest digital technologies. This equipment will provide them with up to date standards for the ever-growing communication industry.

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.*)

As the Program Efficacy Report clearly states in its introduction, we offer five associate degrees and six certificates. Among them are the power systems technology, as well as the communications technology. Both are in need of the equipment specified above to update the classes and bring them in line with current industry standards. In addition, we want to continue to upgrade our testing equipment which will clearly aid in student skill enhancement and preparedness for the work force. This equipment also aligns with the goals, challenges, and

action plan of the EMP document. We have seen an annual increase in enrollment due to the improved curriculum as well as the equipment update that we were able to accomplish with our limited budgets within the last two years. We need to continue with the Equipment update so that we provide current equipment and lab training to our students in order for them to meet the industry standards and find gainful employment.

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.*).

Student success is directly related to them finding gainful employment in their field. Giving the students updated training and skills, via current standard equipment, will also make a big improvement in that respect. As a result, it will increase enrollment and ultimately placement in these high demand fields. In addition, installation and use of this updated equipment has the potential to increase not only student success but also retention, persistence, and overall efficiency. It also better aligns with industry licensure, safety, and compliance standards

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.*).

As an annual trend, the Perkins budget continues to shrink, especially for this year as more programs have received fund allocation from an already shrinking lump sum received by SBVC. As a result, we have to deal with less monies which have already been allocated to buy replacement support equipment and supplies to support our existing laboratories and will not be enough to upgrade to the above stated needs. The general fund is miniscule compared to the needs. We will also look for grants in order to secure funding for such needs. Ongoing maintenance costs for part and equipment replacement is around \$11,000 which takes up most of the already allocated Perkins budget let alone update costs.

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

If we do not continue to update our lab equipment and purchase new PLC and communications equipment will cause our programs not to be up to date may result in a decline of enrollment as the students realize that SBVC is not up to date with current industry standards and technical job skill requirements. In a much broader view, it will foreclose opportunities for local and regional employment, and contribute to our chronically under-educated, under-prepared workforce within the Inland Empire.