

FACULTY NEEDS ASSESSMENT APPLICATION

Name of Person Submitting Request:		Eddie Sanker
Program or Service Area:		Welding Technology
Division:		Applied Technology, Trans., & Culinary Arts
Date of Last Program Efficacy:		Spring 2011
What rating was given?		Continuation
# of FT faculty 0	# of Adjuncts: 5	Faculty Load: 6.59 (Welding 2012-13 EMP)
Position Requested:		Tenure Track Faculty Position
Strategic Initiatives Addressed:		5.2.4

Replacement X (The position was eliminated after 2010 SERP) Growth

1. Provide a rationale for your request.

The Welding Technology Department requests one full time faculty. Two full time faculty are needed for a program with current FTEF of 6.59 and an average FTEF of 8.13. The Welding Industry continues to be a critical component of manufacturing worldwide. According to the National Center for Welding Education and Training, "State of the Welding Industry Report: Executive Summary" - Durable goods manufacturing industries in which welding is a critical enabling technology account for 90% of total U.S. durable goods value of production. It is an industry that continuously evolves from a technology, processes and materials perspective and one which requires on-going training for its practitioners as well as for those who teach welding at all levels. The report also noted during the last five years there were consistently needs in different regions throughout the U.S. for up to 10% of the overall welding professionals to be replaced, predominantly due to retirements. An analysis of projected data that was gathered through the efforts of the NSP showed that from 2009-2019 there would be a need for at least 238,692 new and replacement welding professionals. Without an additional full time faculty it is very difficult to grow or build a program, update curriculum, the lab, teach all needed sections in a rapidly growing job market and serve our students. A fulltime faculty is needed to coordinate these program needs to meet the regional needs for Welding Technology Trainees. The program has three labs equipped with outdated technology and are not compliant to OSHA standards. All fifteen courses in the program are lab based. The division offers three lab course per evening. This semester we again offered a Saturday class to try to maintain sections offered. A full time faculty can offer courses during daytime to make lab use more efficient. A subject matter expert is required to help identify the equipment needs, provide inputs to write grants and to set up a standard teaching lab and maintain it. The adjunct faculty members are a mix of local Certified welders and educators and those who work for larger companies. So far we have had difficulty in recruiting an adjunct faculty who can teach during day.

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.*)

Year:	FTEs:	Census:	FTEF:	Efficiency:	Success:	Retention:
08-09	181.15	664	8.98	605	81%	91%
09-10	177.35	624	8.56	622	81%	89%
10-11	140.60	506	8.05	524	76%	93%
11-12	129.77	374	8.47	460	72%	87%
12-13	79.24	429	6.49	631	85%	96%

It is difficult to offer day classes and make use of our labs efficiently during the day. The number of students in the program has decreased by 53%. It takes a student four semesters to complete the certificate, but by offering more courses per semester, it could be reduced to two semesters. The WSCH/FTEF has improved significantly to 631, which is an acceptable number for a program with a high lab component. The student success rate is 85% and it exceeds the campus average. The number of certificate awarded is the second lowest in the last five years and correlates exactly with cuts in sections and loss of one full time faculty. It is not possible to sustain a program of this size, current industry growth and complexity without an additional full time faculty, let alone grow it to its full potential. The Welding Technology Department is aware of the need to increase diversity among students and wants to take appropriate action to increase its female population, as identified on page 1 of the efficacy report. The department would also like to identify major trends in the field, seek funds for new equipment and improve areas in destructive and non-destructive inspection to strengthen its Certified Welding Inspector program. However, there is outdated equipment in destructive and non-destructive labs. Currently there is no plan to recruit under-represented populations and no plans to acquire newer, more current destructive and non-destructive testing equipment. Weaknesses in both these areas will be addressed by hiring a full time faculty. Women and those who depend on public transportation tend to enroll in day classes. Without inputs and help from an additional full time subject matter expert, it is not feasible for a dean to support major changes to a lab or to help write grant proposals.

3. Provide updated or additional information you wish the committee to consider (*for example: regulatory information, compliance, updated efficiency, student success data, or planning, etc.*).

The Welding Technology program has provided training at Valley College for over forty years and student success is at 85%; the highest it has been over the last five years. In 2009 the Welding Technology program had two full time faculty. The department chair retired in 2010 and the one position was eliminated. This year, SBVC Welding Technology program applied for recertification (after a 2 year absence) as an official L. A. City Certification Test site. The Los Angeles Department of Building and Safety granted the certification March 2013. This has increased interest and student enrollment in the Welding Technology program. Adding an additional fulltime faculty would allow the SBVC Welding Technology department to manage and maintain growth.

4. What are the consequences of not filling this position?

The program is will not be able to manage, and maintain recent growth, intentionally diversify its population, and write grants without the guidance of a full time faculty with subject matter expertise. There is a strong community need for Welding Technology. If a full time faculty is not hired, the effect would be slow and steady declension of student enrollment in the program.