

**Career Education Program Two-Year Review
Program Efficacy Report
Spring 2014**

Name of Department: Water Supply Technology

Efficacy Team: Christie Gabriel-Millette, Ed Millican, Melinda Moneymaker

Overall Recommendation (include rationale): Continuation

Overall, WST is an important program that has shown to be successful for students to obtain their various licenses. The job market demand is high, and expected to increase as baby-boomers retire. There was detailed narrative that described the various aspects of the programs in the individual sections. As a minor comment, it would have been useful if the checkboxes indicating the relative scale for each area were marked.

1. Purpose of this Program

Efficacy Team Analysis and Feedback: **Meets**

The program serves students who are employed or interested in employment in water treatment, water distribution, wastewater collection, wastewater treatment, backflow prevention, cross connection control, and water conservation. Water Quality Analyst and Water Conservations Specialist have been identified as two emerging occupations in water and wastewater industries.

2. Demand for this Program

Efficacy Team Analysis and Feedback: **Meets**

There seems to be demand for this program, since there is a projected retirement of baby-boomers and a need for increasing technical skills in these jobs. There is already a major workforce challenge faced by water and wastewater to find an adequate pool of applicants and retaining qualified workers.

3. Quality of this Program

Efficacy Team Analysis and Feedback: **Meets**

The Water Supply Technology program is approved by the Department of Health Services as a provider of specialized training for operator certification requirements. Coursework, degree and certificate requirements are kept current and aligned with industry standards through regular review by the Water Supply Technology Advisory Board. There are two full-time and eight adjunct instructors; all of the adjunct faculty are water professionals who have industry expertise in their fields. There are plans to work with K-12 to create articulated agreements that create a water/wastewater career pathway.

4. External Issues

Efficacy Team Analysis and Feedback: **Meets**

There are more than 2,200 water and wastewater establishments the Inland Empire. The number of employees leaving due to retirements will create an expertise and human resources gap that will be difficult to recapture. This workforce need will increasingly create demand for our Program; SBVC plays a critical role in preparing candidates for jobs in the water industry.

As a correction, 59% of students received financial aid last year (not 70% as noted).

5. Cost of this Program

Efficacy Team Analysis and Feedback: **Does Not Meet**

Certificates and degrees awarded in 2011-12 were four and nine (not eight as mentioned) and in 2012-13 eight and twelve, respectively. The committee is unsure what is meant by the statement that these numbers have questionable accuracy. However, we do acknowledge that tracking the number of state licenses resulting from our students is likely challenging to track (although in the Two-Year Plan section, it is noted that these results are now becoming available). There are many examples given of where the program needs to expand, however, there is not a direct statement about how the cost of the program is tied to revenue. The only indication is that the program does not have a permanent budget.

6. Two-Year Plan

Efficacy Team Analysis and Feedback: **Meets**

Many details were provided that outline what the Program is planning for the next two years. The major issues are keeping the curriculum current with new technologies and formally addressing the funding needs (i.e., additional full-time faculty, equipment, facilities for hands-on instruction). These are necessary to ensure the Water Supply Program can provide water utilities with the proper training vehicle necessary to fill vacancies with students knowledgeable in the operation and maintenance of water systems.