**Program Efficacy Evaluation and Recommendation**

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| **Program: Water Supply Technology** |
| **Reviewers: Deanne Rabon; Denise Knight; Celia Huston** |
| **Overall Recommendation with Rationale: Continuation** |

**Part I: Access**

| **Strategic Initiative** | **Institutional Expectations** | |
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| **Does Not Meet** | **Meets** |
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| Demographics | The program does not provide an appropriate analysis regarding identified differences in the program’s population compared to that of the general population | The program provides an analysis of the demographic data and provides an interpretation in response to any identified variance.  If warranted, discuss the plans or activities that are in place to recruit and retain underserved populations. |
| Pattern of Service | The program’s pattern of service is not related to the needs of students. | The program provides evidence that the pattern of service or instruction meets student needs.  If warranted, plans or activities are in place to meet a broader range of needs. |
| **Reviewer Feedback:**  **Demographics: Meets**  Water Supply Technology identifies variances between SBVC and program demographic data. The most significant of which is the underrepresentation of women in the program. Program states that water supply is a traditionally masculine field and includes research for the Bureau of Labor Statistics that supports that statement. Morning classes have the highest percentage of female enrollment and the program hopes to offer more classes during that timeframe.  Program noted that African American enrollment has decreased and Hispanic enrollment has increased. The anecdotal explanation for the rise in Hispanic enrollment is that the increase is due to economic crisis and displaced Hispanic construction workers are enrolling in the program for retraining. The program doesn’t offer an explanation for the decreased enrollment of African Americans, but has done outreach in the African American community via the local African American newspaper The Precinct Reporter. Water Supply Technology receives telephone inquiries from potential African American students.  There is no data to back up these assertions regarding ethnicity. Given their statement that African Americans inquire about the programs, it would benefit the program to include this internal data on the ethnicity and gender of potential students in their next report. Program is watching ethnic trends to see if further outreach is needed.  **Patterns of Service: Meets**  Program offers evening courses that appeal to students already working in the water industry. Program is offering morning classes in an effort to attract more women into the field. Water Supply offered hybrid classes, but the student success rate was low and it was decided to keep classes on campus so students have better support. Program offers a Saturday class. | | |

**Part II: Student Success**

| **Strategic Initiative** | **Institutional Expectations** | |
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| **Does Not Meet** | **Meets** |
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| Data demonstrating achievement of instructional or service success | Program does not provide an adequate *analysis* of the data provided with respect to relevant program data. | Program provides an analysis of the data which indicates progress on departmental goals.  If applicable, supplemental data is analyzed. |
| Student Learning Outcomes and/or Student Achievement Outcomes | Program has not demonstrated that they have made progress on Student Learning Outcomes (SLOs) and/or Service Area Outcomes (SAOs) based on the plans of the college since their last program efficacy. | Program has demonstrated that they have made progress on Student Learning Outcomes (SLOs) and/or Service Area Outcomes (SAOs) based on the plans of the college since their last program efficacy. |
| **Reviewer Feedback:**  **Student Success: Meets**  Retention shows a gradual decline in past years but has stabilized during the last two academic years. Student Success rates vary and do not show a declining, increasing or stable pattern. Students who are already in the industry are highly motivated to complete the courses. Students new to the industry are unfamiliar with the specialized equipment and vocabulary associated with the field and therefore initially struggle to catch up. Program is seeking to remedy this by exposing student to the industry through field trips and video. Program has increased prerequisites and hired a grant funded tutor to help students in the Water Math courses.  Water Supply Technology changed the curriculum and program requirements in 2010 offering advanced level courses and requiring Chemistry, Computer Literacy, Math and English for certificates and degrees. The water industry has strict regulations and guidelines that the program needs adhere to in order for students to pass the state certification exams. Students do not have to complete an SBVC degree or certificate to pass state exams and find an entry level job in the water industry. Even so, the awarding of campus degrees and certificates has steadily increased.  **SLOs: Meet**  Program is progressing with SLOs and has a plan in place for ongoing collection of data and a biennial plan to analyze data on an ongoing basis. Developing programmatic SLOs for the six different fields in the program will be challenging. | | |

**Part III: Institutional Effectiveness**

| **Strategic Initiative** | **Institutional Expectations** | |
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| **Does Not Meet** | **Meets** |
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| Mission and Purpose | The program does not have a mission, or it does not clearly link with the institutional mission. | The program has a mission, and it links clearly with the institutional mission. |
| Productivity | The data does not show an acceptable level of productivity for the program, or the issue of productivity is not adequately addressed. | The data shows the program is productive at an acceptable level. |
| Relevance, Currency, Articulation | The program does not provide evidence that it is relevant, current, and that courses articulate with CSU/UC, if appropriate. | The program provides evidence that the curriculum review process is up to date. Courses are relevant and current to the mission of the program.  Appropriate courses have been articulated or transfer with UC/CSU or plans are in place to articulate appropriate courses. |
| **Reviewer Feedback:**  **Mission: Meets**  Program mission is aligned to the campus mission.  **Productivity: Does Not Meets**  Program analysis of available data is both cursory and disorganized. If the data had been analyzed, explained and supported in the comprehensive manner that was demonstrated in the Demographic and Student Success portions of the document, this category would have been satisfactory. Program should plan for a more thorough analysis in this category for their next program efficacy.  **Relevance Currency & Articulation: Meets**  All components are current. Currency of curriculum was verified in Curricunet. Curriculum is current through 2015. | | |

**Part IV. Planning**

| **Strategic Initiative** | **Institutional Expectations** | |
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| **Does Not Meet** | **Meets** |
| **Part IV: Planning - Rubric** | | |
| Trends | The program does not identify major trends, or the plans are not supported by the data and information provided. | The program ~~identifies~~ and describes major trends in the field. Program addresses how trends will affect enrollment and planning. Provide data or research from the field for support. |
| Accomplishments | The program does not incorporate accomplishments and strengths into planning. | The program incorporates substantial accomplishments and strengths into planning. |
| Challenges | The program does not incorporate weaknesses and challenges into planning. | The program incorporates weaknesses and challenges into planning. |
| **Reviewer Feedback: Meets on all sections of planning**  Water Supply Technology is a forward thinking program that is aware of the trends, laws and regulations in the water industry. Program is adapting and/or adding courses to meet industry needs as new trends emerge. There is high turnover in the water industry due to an aging workforce.  Program curriculum is aligned with state exams and provides students with a solid foundation for passing exams and finding work in the industry. Program has strong partnership with the San Bernardino Municipal Water Department including an Operator in Training program. Program is expanding on the Operator in Training program by partnering with the City of Redlands and City of Yucaipa. With the addition of new students who will be entering the program through the Veteran’s Department grant, Water Supply Technology is seeking additional partnerships with the Inland Empire Utility Agency and the Metropolitan Water District.  As with many program on campus Water Supply Technology’s challenges include budget, need for additional faculty and reduced offerings. A challenge that unique to the program is the location and size of the backflow lad used for hands on instruction. The department has moved into the new Physical Science building, but space for the backflow lab was not identified during the planning processes for the building. The existing backflow lab located behind the Technical Services building has only 6 workstations for 25 students. Campus facilities and equipment for the water/wastewater analysis lab component are insufficient. The program has partnered with the City of Redlands who provide student access to their wastewater analysis lab on Saturdays.  Water Supply Technology will continue to seek funding for budget, equipment and faculty through the campus needs assessment process and through grant funding. Program has been the recipient of several grants that provide scholarships for students, retraining unemployed workers and conduct a grey water study. They currently have two grant application submitted and are waiting to hear the outcome. | | |

| **Part V: Technology, Partnerships & Campus Climate** | | |
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|  | **Does Not Meet** | **Meets** |
| Technology, Partnerships & Campus Climate | Program does not demonstrate that it incorporates the strategic initiatives of Technology, Partnerships or Campus Climate.  Program does not have plans to implement the strategic initiatives of Technology, Partnerships or Campus Climate | Program demonstrates that it incorporates the strategic initiatives of Technology, Partnerships and/or Campus Climate.  Program has plans to further implement the strategic initiatives of Technology, Partnerships and/or Campus Climate. |
| **Reviewer Feedback: Meets**  Program has solid partnerships with water districts throughout the Inland Empire. The Program has a solid reputation and student find employment through internship opportunities. Program is establishing more partnerships including American Water Works Association and Santa Anna Regional Discharger Association.  Water Supply Technology received an open source computer based interactive math program from the U.S. Environmental Protection Agency. Program continues to seek computer based opportunities to increase student learning.  Program does not mention their contributions to Campus Climate but it should be noted that in another part of the document Water Supply Technology was identified as the only ‘green’ program on campus. | | |