

**IMPERIAL VALLEY COLLEGE
PROGRAM REVIEW COMPLIANCE FORM AND REQUEST FOR RESOURCES**

PROGRAM/DEPARTMENT Industrial Technology Department- Energy Efficient Technology ACADEMIC YR. 2013

Comprehensive Program Review Annual Assessment Request for Resources (check all that apply)

Please analyze your Program Review data as well as your SLO/SAO assessment findings in order to update to your Comprehensive Program Review report as needed. All changes to area needs and subsequent requests for additional resources must be reported at this time.

If your program is scheduled for a Comprehensive Program Review all forms are to be completed and submitted to the appropriate Dean/VP. If you are completing the annual Program Review Assessment only and have no changes to area needs, sign below and submit this form to appropriate Dean/VP. If your needs have changed as a result of your annual assessment of program review data, please complete the appropriate Request for Resources form(s) and submit to appropriate Dean/VP.

Signature of Program Chair/Director

Date

Signature of Area Dean

Date

Signature of Area Vice President

Date

Please attach the following documents to this Program Review Compliance form if you are requesting additional resources:

- ✓ Comprehensive Program Review
- ✓ Data Analysis Form
- ✓ SLO/SAO Assessments
- ✓ Request for Resources Forms

Academic Program Evaluation – ENERGY EFFICIENT TECHNOLOGY
Division – EWD
Department - ITEC

Associate Degree:

Required Courses: BLDC 101, 110, 115, 155, 170, 175, ENVS 110, EWIR 150

Certificate Program:

Required Courses: BLDC 101, 110, 115, 155, 170, 175, ENVS 110, EWIR 150

PROGRAM COMPLETION

Number of certificates completed Between Fall 2009 and Spring 2012	Number of Associate Degrees Completed Between Fall 2009 and Spring 2012
44	1

ENERGY EFFICIENT TECHNOLOGY – ENROLLMENT, FTES & FILL RATES

COURSES	Course Cap	Enrollment - # Sections						Fill Rate						Wait Lists		
		F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12	S 12	F 12	S 13
BLDC 101	20			17 - 1	16 - 1	19 - 1	34 - 2			94.44%	88.89%	105.56%	85%			
BLDC 110	19	21 - 1	39 - 2		8 - 1	16 - 1	28 - 2		216.67%		44.44%	88.89%	73.68%			
BLDC 115	18			28 - 1	15 - 1		27 - 2				83.33%		75%			
BLDC 155	16			29 - 1						Error						
BLDC 170	20		44 - 2		10 - 1		18 - 1		275%		55.56%		90%			
BLDC 175	16			29 - 1						Error						
ENVS 110	30	258 - 8	288 - 9	263 - 9	229 - 8	256 - 8	193 - 7	107.5%	107.08%	97.4%	95.42%	106.7%	97.2%			5
EWIR 150	20	44 - 2	42 - 2	28 - 2	16 - 1	17 - 1	11 - 1	110%	105%	70%	80%	85%	55%			

ENERGY EFFICIENT TECHNOLOGY - PRODUCTIVITY

COURSE	FTES						FTEF						PRODUCTIVITY					
	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12
BLDC 101			1.75	1.65	1.95	3.5			0.2	0.2	0.2	0.4			8.75	8.25	9.75	8.75
BLDC 110	3.6	6.68		1.37	2.74	4.8	0.2	0.4		0.2	0.2	0.4	18.00	16.70		6.85	13.70	12.00
BLDC 115			4.8	2.57		4.63			0.2	0.2		0.2			24.00	12.85		23.15
BLDC 155			6.96						0.20						34.80			
BLDC 170		7.54		1.71		3.09		0.40		0.20		0.20		18.85		8.55		15.45
BLDC 175			4.97						0.20						24.85			
ENVS 110	26.55	29.64	27.05	23.55	26.33	19.85	1.60	1.80	1.80	1.60	1.60	1.40	16.59	16.47	15.03	14.72	16.46	14.18
EWIR 150	7.55	7.2	4.8	2.74	2.91	1.89	0.4	0.4	0.4	0.2	0.2	0.2	18.88	18.00	12.00	13.70	14.55	9.45

ENERGY EFFICIENT TECHNOLOGY - COMPLETION & SUCCESS

COURSE	Completion Rate						Success Rate					
	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12
BLDC 101			100%	88%	89%	97%			59%	50%	74%	79%
BLDC 110	90%	97%		100%	81%	100%	76%	87%		88%	81%	100%
BLDC 115			100%	93%		100%			100%	80%		100%
BLDC 155			100%						100%			
BLDC 170		100%	100%	100%		100%		95%	100%	90%		100%
BLDC 175												
ENVS 110	89%	89%	87%	87%	94%	86%	66.0%	60.0%	66.0%	58.0%	69%	63.0%
EWIR 150	86%	93%	93%	94%	100%	91%	66%	81%	82%	63%	88%	91%

Recent Enrollment Demand: High _____ Medium Low _____

Projection for Future Demand : Growing _____ Stable Declining _____

Opportunity Analysis: (Successes, new curriculum development, alternative delivery mechanisms, interdisciplinary strategies, etc.)

The Energy Efficiency Technology Program maintains a philosophy that its students must receive the highest quality of education available for the career which they are studying. We are dedicated to our students by encouraging them to meet their educational goals so they may engage in a productive and successful occupation. The success of our students will always come first. The Energy Efficiency Technology Associate in Science Degree, and certificate are designed to provide instruction in manipulative skills, technical knowledge, and related construction trade information, which will prepare the student for employment in energy efficiency, home performance with emphasis in the Green Building Construction industry. Some of our instruction is enhanced by field trips to actual construction sites that are sponsored by our advisory committee members. The field trips have been proven to be very effective because not only do they serve a learning tool but they are also a great opportunity for students to establish a connection with the industry. Most of our instructors have over 15 years of experience in the various trades that are taught in our program. One of our interdisciplinary strategies is to integrate some of our classes with other departments such as the Building Construction Technology department. This interdisciplinary strategy has proven to be really effective because it has significantly increased the enrollment in one of classes. There seems to be low numbers on the number of certificates completed because it is difficult to offer a flowing sequence of classes every semester because there is only one full time instructor and there are over fifteen sections of classes that are taught by the same instructor. When it comes to the number of Associate degrees completed there has not been any degrees awarded because most students that enroll in the program just want to obtain the minimum necessary skill sets to become employable. Therefore in the future the offering an associate degree might not be necessary. There is an existing problem in the tracking of students that become employed because they are seldom identified as gainfully employed which is one of our main objectives and performance measures in career technical. Tracking of students and employment assistance is existent but very ineffective. The data of student employment is difficult to access and acquire and once students leave the school they are not contacted to receive follow up services pertaining to their employment status. In remote cases students maintain verbal contact and obtain employment guidance from the career technical instructors. The current local employment numbers seem low in the surrounding area but seem to be increasing within a 100 mile radius. The learning outcomes of the program are the following: To prepare students more for their jobs or new jobs, to prepare students with the use of new technology in the construction industry. The methods of assessment will vary depending on the classes, because each class will have institutional learning outcomes that will be assessed independently for example some of the learning outcomes will be asses with rubric, others will be asses with visual identification, written and verbal identification and the most important assessment will the gainful employment at the end of the program or certificate.

Summary of Program "Health" Evaluation: (Including consideration of size, score, productivity and quality of outcomes)

The productivity of the program seems to be high compared to other programs partially due to the fact that other programs are larger and have more instructors per student. The fill rate is low but always above 80% of enrollment. The success rate and the completion rate in the classes appear to be high and growing. One of the largest concerns for the low enrollment is the lack of a lab facility, so the program is forced to teach lab sections of the class by performing community projects and projects around the school. The program is anticipating that enrollment will increase once the new career technical building is completed as more students will be drawn to the program. The lead instructor acquired a certification from the Building Performance Institute and became a proctor for the written exam. The program has been establishing a link with CBPCA to make the school a test site and be able to draw community members to attain the certification after taking the required training/tests and paying the appropriate fees. The link with CBPCA came about from the B-Green grant in which students had to obtain an industry certification by the Building Performance Institute. This industry certification helps our students become employed in the construction industry in energy efficiency related occupation therefore, the construction program is taking steps to become accredited by CBPCA and offer the testing and proctoring of students at the college. Overall the productivity, success, completion and student retention rates have been good and the productivity of the program remains constant. Part of the reason why the overall numbers look good has been because the program has experienced an influx of students from the various grants that have been awarded to the department in related fields. The quality of the outcomes has helped our program in standardizing the instruction of students and help to ensure that students are attaining the necessary skills to thrive in the construction industry.

Student Learning Outcomes and Program Learning Outcomes

Student Learning Outcomes Assessment -completion

Program Learning Outcomes Assessment

Program learning Outcomes were completed in the Fall, 2012 and were submitted to the SLO coordinator.

Success Rate of Student Learning Outcomes

The student learning outcomes have been monitored and tracked at the end of each course and the pertaining success rates have been documented in the cycle assessments.

Success Rate of Program Learning Outcomes

The program learning outcomes have been monitored and tracked at the end of each semester and are being documented in the required cycles.

Future Goals of Program

The future goals of the program is to continue offering training that is relevant to the changing construction industry and to be able to offer these trainings in a state of the art facility where students will feel in a more comfortable learning environment. The current lab design of the building has been guided by the input of members of the construction advisory board. In addition one of the future plans for the program is to develop a stronger link with the local industry so they can hire more of the students that complete the program. In addition the program will try to develop a database to keep track of student employment as this is a very important success indicator in career technical programs. Another goal of the program is to offer certificates only, due to the fact that there are no students completing the associate program, due to the fact that there are not many universities that offer continuing education in construction trades programs. The program will focus on offering certificates only and ensuring that students are gainfully employed after they complete the certificate programs.

Resource requests from annual program review

Some of the current requests for the improvement of the program is the acquisition of new equipment to be installed in the new career technical lab along with one or two adjunct instructors that have relevant experience in the area that they are teaching along with degrees in a related field, in order to motivate students in continuing their education. The hiring of full time instructor faculty is necessary in order to ensure that the program continues to grow and to ensure that this program is offered and completed in a timely manner. The sequence of program courses is not consistent due to the fact that some of the courses are being taught by the full time instructor of the building construction technology program. This factor makes the completion and accessibility of these classes more difficult for students to complete the certificate program.