

IMPERIAL VALLEY COLLEGE

PROGRAM REVIEW COMPLIANCE AND REQUEST FOR RESOURCES

PROGRAM/DEPARTMENT: Industrial Technology Department, Air Conditioning ACADEMIC YR: 2013

Compliance

reported at

Forms are completed and submitted to appropriate Dean/VP. If you are completing the annual Program Review Assessment only and have no changes to area needs, indicate below and submit this form to appropriate Dean/VP. If your needs have changed as a result of your on-

Richard Gray 2/13

**Academic Program Evaluation – AIR CONDITIONING & REFRIGERATION
Division – EWD
Department - ITEC**

ACR COURSES

Year	TERM	Enrollment	Fill Rate	# of Sections	Mass Cap	Avg. Class Cap	Avg. Class Size	FTES	FTEF	PRODUCTIVITY	Completion Rate	Success R
2009	Fall 2009	125	125%	5	5	100	20	25	18.75	1.45	12.93	94%
	Spring 2010	95	95%	5	5	100	20	19	14.43	1.45	9.93	93%
2010	Fall 2010	144	105.08%	6	6	118	20	9.67	20.67	19.81	1.78	11.13
	Spring 2011	86	86%	5	5	100	20	17.2	13.2	1.45	9.1	
2011	Fall 2011	97	97%	5	5	100	20	19.4	13.8	1.45	10.58	
	Spring 2012	87	87%	5	5	100	20	17.4	14.92	1.65	9.04	

***ACK COURSES ENROLLMENT, CREDIT HOURS WAITLISTS**

COURSE	ENROLLMENT	# SECTIONS	FILL RATE	WAITLISTS
ACR 103	20	124-11 26-11 12-11	125-11 19-11	120-09 130-09 135-09
ACR 105	20	120-11 17-11 17-11	10-11 15-11	130-09 135-09
ACR 106	20	20-11	21-11 14-11	12-11

***ACK COURSES PRODUCTIVITY**

COURSE	FTEF									
	E09	S10	F10	S11	F11	S12	F09	S10	F10	S11
ACR 101	4.97	3.39	0.92	4.99	7.66	2.71	0.20	0.20	0.20	0.20
ACR 102	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
ACR 103	4.11	4.46	2.91	4.29	3.43	3.20	0.20	0.20	0.20	0.20

ACR COURSES - COMPLETION & SUCCESS RATES

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
ACR 101	93%	90%	100%	100%	75%	100%	83%	95%	95%	95%	95%	71%
ACR 102				93%		100%	80%	95%		79%		91%
ACR 103			92%	96%	88%		80%	95%	75%	85%		76%
ACR 104			100%	100%	88%		100%	100%	100%	100%	100%	71%
ACR 105			100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
RUDCJ 301						100%		92%		100%		97%
WELD 100						92%	84%	85%	82%	68%	86%	80%

that have been [redacted] of the [redacted] are employed.

We have students employed at:

- Locke Air Conditioning
- Cool Breeze Air Conditioning
- Baker Refrigeration
- J & S Refrigeration
- Arctic Air Conditioning
- Lara Air Conditioning

All V [redacted]

• El Centro High School District

• El Centro Elementary District

• [redacted]

• [redacted]

• [redacted]

• [redacted]

ot
[redacted]
Border Patrol ICE
[redacted]

- [redacted]

Student Learning Outcomes and Program Outcomes

ACR101

Outcome 1: Upon completion of this course the students will be able to perform a standing pressure test on a vessel using dry nitrogen.

ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 Written Exam

Outcome 2: Upon completion of this course, the students will be able to repair a piping system using both low temperature solder and high temperature brazing.

ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 Written Exam

Outcome 3: Upon completion of this course, the students will be able to perform a hydrostatic test using a high pressure vessel.

ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 Written Exam

Outcome 4: Upon completion of this course, the students will be able to perform a leak test using a helium leak detector.

ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 Written Exam

Outcome 5: Upon completion of this course, the students will be able to perform a leak test using a soap solution.

ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 Written Exam

Outcome 6: Upon completion of this course, the students will be able to perform a leak test using a pressure decay test.

ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 Written Exam

Outcome 7: Upon completion of this course, the students will be able to perform a leak test using a bubble test.

ISLO1 ISLO2 ISLO3 ISLO4 ISLO5
 Written Exam

ISLO2, ISLO3, ISLO5	Outcome 2: Follow the instructions to install an electrical conditioning system and check the amperage in a load.	Written Exam, Practical Exam with Skills
	Voltage circuit.	
ISLO2, ISLO3, ISLO4, ISLO5	Outcome 3: Make voltage and amperage readings on actual operating equipment using VOM. You will be able to do this under the supervision of your instructor.	Written Exam, Practical Exam with Skills

galvanized sheet metal air conditioning square w/round
air ducts

Program Learning Outcomes Assessment:

Assessment will be completed during the spring of 2013

1. Outcome: demonstrate knowledge of safety practices required for repair and installation of air conditioning refrigerant equipment.

Ret. Completion Date: Spring 2013 Way(s) to assess: written exam, Lab exam

2. Outcome: demonstrate understanding of practical and manipulative skills relates to HVAC/R industry.

Way(s) to assess: written exam, Lab exam.

Ret. Completion Date: Spring 2013

3. Outcome: demonstrate competency as master of use of hand or power tools = will perform within the HVAC/R industry.

Ret. Completion Date: Spring 2013 Way(s) to asses: Written exam

Success Rate of Student Learning Outcomes:

Shows the commitment of the student body to the program and the success rate of the student body in the program.

Program Learning Outcomes: Success Rate of Program

Program Learning Outcomes are in process of assessment. Success Rate of Program

Future Goals of Program

Impressions of the program will be by bonding a new generation of technical students, we are striving to move in by fall 2014. The state of the art facility will benefit students with a strong learning environment. Future goals include adding courses in renewable energy and commercial refrigeration and continue to offer morning, afternoon, night, and weekend Saturdays. Teach advance technology with the help of the HVAC industry and suppliers. Another future goal that is being developed and in the process creating a reliable program for students.

Resource Requirements from annual program review

In order to grow the program and stay in touch with the latest technology, new equipment must be purchased to replace outdated units currently in use. Air conditioners now operate with smart features, and require laptops, computers, or proper electrical instruments to troubleshoot and repair.

Currently the new HVAC units does not have the advanced technology available. It is another that funds are limited and must be eliminated. In order to be successful, the program will need to purchase conditioners, heating units, and coolers.

With the growth of the program, we may also have a need to hire part-time faculty to accommodate students.