

IMPERIAL VALLEY COLLEGE
PROGRAM REVIEW COMPLIANCE FORM AND REQUEST FOR RESOURCES

DEPARTMENT NAH - Fire Academy

ACADEMIC YR. 1213

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

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

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

Program Chair/Director
[Signature]

Area Vice President

Date
2/28/13

Date

Signature of Area Dean
[Signature]

Attach the following documents to this Program Review Compliance form if you are requesting additional resources:
- Comprehensive Program Review
- Request for Resources Form
- SLO/SAO Assessments
- Request for Resources Forms

**Academic Program Evaluation – Firefighter 1
Division – HPS
Department - PBSF**

FIRE COURSES:

TERM	Enrollment	Fill Rate	of Section	Mass Cap	Avg. Class Cap	Avg. Class Size	FTES	FTEF	Productivity (FTES/FTEF)	Completion Rate	Success Rate
Fall 2009	238	70%	11	340	30.91	21.64	24.03	2.15	11.18	83%	61%
Spring 2010	197	102.60%	10	192	19.2	19.7	20.61	2.07	9.96	82%	55%
Fall 2010	275	92.28%	12	298	24.83	22.92	26.83	2.29	11.72	82%	65%
Spring 2011	250	104.17%	11	240	21.82	22.73	26.41	2.2	12	92%	66%
Fall 2011	243	60.45%	11	402	36.55	22.09	24.59	2.12	11.6	77%	50%
Spring 2012	175	44.99%	10	389	38.9	17.5	17.55	2.03	8.65	86%	56%
% Change Fall Semesters 09 - 11	2.10%	-13.64%	0.00%	18.24%	18.25%	2.08%	2.33%	-1.40%	3.76%	-7.23%	-18.03%
% Change Spring Semesters 10 - 12	-11.17%	-56.15%	0.00%	102.60%	102.60%	-11.17%	-14.85%	-1.93%	-13.15%	4.88%	1.82%

PROGRAM COMPLETION

Number of certificates completed Between Fall 2009 and Spring 2012	Number of Associate Degrees Completed Between Fall 2009 and Spring 2012
2	N/A

Comment: The number of degrees is extremely low. However, the fire industry follows OSFM certifications, which requires the student to successfully complete course and field testing. Faculty implemented a new form to inform all Academy students of the need for a college certificate and or degree.

FIREFIGHTER 1 - COURSES, Completion & Success Rates

CERTIFICATE - Required Courses: FIRE/EMT 105, FIRE 109, 121, 122, 130, 131, PE 100, PE 104

Course	Course Cap	ENROLLMENT - # OF SECTIONS						FTES						Fill Rate						Wait Lists			
		F09	S 10	F 10	S 11	F 11	S 12	F09	S 10	F 10	S 11	F 11	S 12	F09	S 10	F 10	S 11	F 11	S 12	S 12	F 12	S13	
FIRE/EMT 105		13 - 2	21 - 3	24 - 2	25 - 2	8 - 2	13 - 2	4.24	6.84	7.82	8.14	2.61	4.23										3
FIRE 109	20	27 - 1			23 - 1		24 - 1	1.85			1.58		1.65	135%			92%		96%				
FIRE 121	25		20 - 1		20 - 1		23 - 1		0.69		0.69		0.79		100%		80%		95.83%			4	
FIRE 122	20	20 - 1		28 - 1		22 - 1		0.34		0.48		0.38		100%		140%		100%					
FIRE 130	20	19 - 1		27 - 1		21 - 1		4.69		6.67		5.18		95%		135%		105%					
FIRE 131	25		16 - 1		25 - 1		16 - 1		3.79		5.91		3.79		80%		100%		80%				
FIRE 220					16 - 1							1.37						80%					
FIRE 221	20	11 - 1			10 - 1			0.94				0.86		55%				50%					
FIRE 224	20				14 - 1		12 - 1				1.20		1.03				70%		60%				
PE 100	25	591 - 13	424 - 19	585 - 13	477 - 1	420 - 10	389 - 10	59.46	43.62	43.2	49.06	43.2	40	113.65%	132.50%	112.50%	149.06%	105%	97.25%			62	
PE 104	25	46 - 1	83 - 2	51 - 1	86 - 2	65 - 2	116 - 3	3.15	5.69	31.93	5.90	4.46	7.96	184%	166%	204%	172%	130%	128.89%	3		42	

Course	Completion Rate						Success Rate					
	F09	S 10	F 10	S 11	F 11	S 12	F09	S 10	F 10	S 11	F 11	S 12
FIRE/EMT 105	77%	76%	72%	76%	76%	77%	49%	55%	56%	52%	55%	50%
FIRE 109	85%			100%		96%	85%			100%		92%
FIRE 121		100%		95%		96%		100%		55%		96%
FIRE 122	100%		100%		100%		100%		100%		100%	
FIRE 130	95%		96%		100%		95%		93%		100%	
FIRE 131		100%		100%		100%		100%		88%		100%
FIRE 220					81%						81%	
FIRE 221					70%						70%	
FIRE 224				100%		100%				100%		100%
PE 100	89%	92%	91%	91%	81%	92%	82%	83%	79%	85%	81%	84%
PE 104	83%	94%	90%	92%	92%	90%	83%	93%	84%	91%	89%	85%

Recent Enrollment Demand: High _____ Medium Low _____

Compared to other majors enrollment demand is low, however, the local fire industry the demand is considered medium.

Projection for Future Demand : Growing Stable Declining _____

Despite the low enrollment when compared to other majors, the local fire industry will continue to need future entry level fire fighters
Labor Market Information is provided for a 'generic firefighter' and indicates it is in a growth mode with

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

- **Success Rates. Opportunity to Improve.** The overall rate is good, with one exception – the EMT course (FIRE 105)
- **Degrees: Opportunity to Improve.** Degrees achieved is LOW. One factor is the Academy does not have a degree option only certificate despite sufficient units to qualify for a degree. Office of State Fire Marshall (OSFM) requirement for fire 'certificates' which are received after successfully completion of the course and testing. The OSFM does not have the same requirement for the college 'certificate'. In 2013 Fire Academy faculty began distributing a checklist for each student in the entry level program to inform them of the importance of the college certificate and degree.
- **Completion Rates:** The overall rate has averaged more than 75%.
- **Employment** is not secured solely by these classes, the OSFM fire fighter I certificate is required. Full-time jobs for fire fighters and officers are above minimum wage.
- **Other Opportunities:** The Fire Academy recently passed its accreditation process with a few recommendations. Once this is final it will open up additional avenues for alternative delivery modes.
- **Other:** The Fire Academy is an orphan program – only PT faculty teach with no FT representation.

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

- The program is small, but healthy and is serving the community needs for firefighters. The program is well supported by the local Fire Chiefs.
- The program is not a college graduation requirement nor is it a gatekeeper for other fire courses.

Student Learning Outcomes and Program Learning Outcomes

Student Learning Outcomes Assessment –completion

Subject	#	Course Title	Dept	Div	Unit	F 10 - Crs SLOs	S 11 - Crs SLOs	F 11 Crs SLOs	S 12 Crs SLOs	F 12 Crs SLOs	S 13 - Crs SLOs
FIRE	105	Emrg Medical Technician	NAH	H&S	7.5	see EMT	see EMT	1,2,3	see EMT	see EMT	see EMT
FIRE	107	EMT I - Refresher	NAH	H&S	2	see EMT			see EMT	see EMT	see EMT
FIRE	109	Haz Mat for First Responders (need 2 slos)	NAH	H&S	2		1		0		TBA
FIRE	117	Auto Extrication	NAH	H&S	1	1		1		1	
FIRE	121	ICS-200 Basic Incident Command	NAH	H&S	1		1,2		1		TBA
FIRE	122	Confined Space Awareness	NAH	H&S	0.5	1		1		1	
FIRE	130	Basic Fire Academy I (need 6 slos)	NAH	H&S	5.5	0		1,2		0	
FIRE	131	Basic Fire Academy II (need 6 slos)	NAH	H&S	6		0		0		TBA

Comment: The lack of any full-time faculty and any one dedicated coordinator has hindered the progress on SLOs. In 2012-2013 it is a focus and the completion of the assessments will increase.

Program Learning Outcomes Assessment

- **Outcome #1:** Students will demonstrate knowledge and appropriate use of fire equipment for a given firefighting scenario by the end of FIRE 130 using the OSFM testing for fire academy basics.
- **Outcome # 2:** Students will demonstrate appropriate selection and implementation of firefighting methods and application of the Incident Command and Emergency Management Systems by the end of FIRE 131 evidenced by the OSFM testing

Success Rate of Student Learning Outcomes

Completion of the SLO assessment is improving and rates of success have been satisfactory.

Success Rate of Program Learning Outcomes

PLO #1: All students successfully attained a 90% or better on their tested firefighter scenarios. The passing ratio is 80%, this is a 10% increase from the Fall 2010.

PLO# 1: All students successfully passed the Fire 130 (Basic Fire Academy) segments where they demonstrated appropriate selection and implementation of firefighting methods in an incident command /emergency management t scenario. The mean of the class was 85%.

The mean of all the learners demonstrated at least an 85% mastery of the implementation of firefighting methods that is required in an incident management/emergency management scenario.

Future Goals of Program

1. Increase enrollment and diversity in the Fire Academy program *(EMP Goal 2: Student Learning Programs and Services)*
2. Increase response on post-completion employment feedback *(EMP Goal 2: Student Learning Programs and Services)*
3. Increase community awareness of and faculty to participate in the final plans for the new CTE building and finalize the relocation plan prior to September 1, 2013. *(EMP Goal 3: Resources)*
4. Seek grant funding for furthering the curriculum, teaching methodologies, and/or technology at the industry standard identified as best practices or mandates within the state Fire Academy programs. *(EMP Goal 3: Resources)*

Resource Requests

Any Identified Needs: Staffing, Technology, Budget/Planning, Facilities, Professional Development, Marketing

- Staffing: 1 full-time faculty member or a dedicated coordinator. Cost estimated at \$60,000
- Budget: District funded ongoing instructional materials for the required structure and wildland fire components as a requirement for ongoing accreditation by OSFM. This will be approximately \$30-35,000 annually into the future. Previously most of the instructional supplies were funded by the CTE/Perkins or Lottery.
- Technology: Fire science is moving more and more into technology for teaching methodologies and for field training and applications.. A Blast unit will be needed to reach the industry expectation
- Marketing: There is an ongoing need to increase the gender and ethnicity base of the Fire Academy program. CTE funding has been used in the past, but will require additional funding in the future to outreach to areas not typically viewed for women.