2008 Annual Report of Program Data Coversheet

College: Hawai'i Community College

Program: Machine, Welding, and Industrial Mechanics Technology

Check All Credentials	AA	AS	ATS	AAS	CA	CC	COM	ASC	
Offered				X	X	X			

College Mission Statement (or provide link)

Hawai'i Community College promotes student learning by embracing our unique Hawai'i Island culture and inspiring growth in the spirit of "E'Imi Pono."

Program Mission Statement (or provide link)

The MWIM Tech Program accepts all students from all segments of our community that meet the Hawai'i Community College's (HawCC) open-door requirements. It is an openentry/exit program that prepares students for multiple occupations offering two (2) Certificates of Completion, two (2) Certificates of Achievement, and (2) Associate of Applied Science degrees. The Program prepares students with the technical and employability skills and knowledge required for the machine, welding and industrial mechanics occupations which are in alignment with the College's imperative of Workforce Development. With an open-entry/exit structure Cultural Competency is paramount. As part of the curriculum students are made aware of hazardous materials and are sensitive to the environment. The curriculum provides the students the opportunity to use current technology used in industry. The students are provided opportunities to serve their communities by fabricating items which are then donated for fundraising purposes.

OV.	OVERALL PROGRAM HEALTH (Check one)					
Healthy	Cautionary	Unhealthy				
	Х					

Part II. Analysis of the Program (strengths and weaknesses in terms of demand, efficiency, and effectiveness based on an analysis of the data)

- The overall program health is Cautionary.
- Demand based on new and replacement positions in the county is weak showing only 6 positions available and the number of majors in fall 2007 is 28. This gives a ratio of 4.7 majors to 1 position which places the demand indicator in a Cautionary health. Strong industry support suggests a higher demand for graduates from this Program more than is indicated by the county statistics.
- All the statistics used to determine efficiency increased favorably. The efficiency of the program is deemed Healthy with a fill rate of 90% and a ratio of majors/FTE

BOR Appointed Faculty of 28.

The persistence from fall to spring is 71.43%, a slight 7.74% decrease from fall 2006. This falls in the Cautionary level. The number of degrees earned in 2007 (5) compared to the number of majors (28) is Cautionary; however, the number of degrees earned in 2007 (5) compared to the number of new & replacement positions (6) is Healthy. Not all students enter this Program to seek a degree and thus the cautionary persistent rate and low number of majors. This Program also provides advance skills training for people in industry, opportunities to increase individual employment potential, and personal enrichment.

Significant Program Actions (new certificates, stop-out; gain/loss of positions, results of prior year's action plan)

Plan of Action 2006-2007	Status
The assessment and improvement of the Program	ONGOING
Learning Outcomes and Student Learning	
Outcomes is a vital part of the restructuring of the	
MWIM Tech Program and will change as the	
program completes the restructuring.	
Develop assessment tools to evaluate student	ONGOING The program
achievements.	completed an assessment plan for
	one SLO with an artifact from fall
	2008 scheduled for external
	assessment spring 2009.
The development of the Machine Option and the	Continue to be in progress
Weld/sheet Metal Option is mostly complete and	
the development of the new curriculum and	
course offerings in the Industrial Mechanics	
Option will be dependent on having the MWIM	
Laboratory equipped with the necessary Trainers,	
Equipment and Supplies.	
The RDP Funding has provided a good start of	Continue to be in progress
the Industrial Mechanics part of this program and	
these budgetary requests are needed to complete	
the program restructuring and to maintain the	
present level of instruction.	
Building 324 was completed in 1989 and is in	Continue to be in progress
need of Repairs and Maintenance. The roof and	
water collection system deterioration has been	
accelerated with the acid rain from the	
continuous volcanic eruption and needs	

replacement.	
The Equipment that is a part of the building has	Continue to be in progress
not been properly serviced and maintained for	
almost 20 years and needs to be serviced. The	
equipment purchased when the facility was	
opened in1989 has to be replaced and is included	
in this budget on a 5 year replacement schedule.	
Develop assessment tools to evaluate student	
achievements.	

Part III. Action Plan

- 1. Continue to review and update student learning outcomes and receive validation from industry.
- 2. Develop assessment tools to evaluate student achievement.
- 3. Develop industrial mechanic curriculum and submit to CRC.
- 4. Purchase equipment to institute industrial mechanics course offerings.
- 5. Institute industrial mechanics course offerings.
- 6. Expand course offerings as equipment/trainers become available.
- 7. Continuously evaluate/modify MWIM curriculum.
- 8. Continuously communicate with industry partners.
- 9. Begin to develop Automotive Machining courses.
- 10. Develop partnerships with DOE robotics.
- 11. Develop partnerships for opportunities to target groups with immediate and specific needs relating to industrial mechanics.
- 12. Continue to participate in professional development activities.

Task:	Academic Yr.	Who is responsible	\$ amount & budget category Except R/M	Best fits which ADPGoal*	Addresses which strength or weakness
1.Furnish RAC/Mech Lab	2009-10	Program Coord.	\$650K, Eq	C,E	W1
2.Purchase startup supplies/small tools for RAC/Mech Lab	2009-10	Program Coord.	\$30K, S1X	С	W1
3.Hire 1 FTE faculty to teach RAC/Industrial Mechanics	2009-10	Program Coord.	\$50K, P	A,C	W1
4.Furnish two faculty offices	2009-10	Program Coord.	\$8K, S1X	C,E	W2
5.Furnish classroom/Lab	2009-10	Program Coord.	\$10K, E	C,E	W2
6.Increase supply budget	2009-10	Program Coord.	\$8K, SE	C,E	W2
7.KO Punch	2009	Program Coord.	\$2.5K, E	C,E	W2
8.Propane/Air Torches	2009	Program Coord.	\$5K, E	C,E	W2
9.Plasma Cutter	2009	Program Coord.	\$2K, E	C,E	W2
10.GMAW Weld Machines	2009	Program Coord.	\$4K, E	C,E	W2
11.FCAW Weld Machines	2009	Program Coord.	\$3.5K, E	C,E	W2
12.Electric/Electronic Trainers	2009	Program Coord.	\$4.7K, E	C,E	W2
13.Pneumatic Trainers	2009	Program Coord.	\$3K, E	C,E	W2
14.Hydraulic Trainers	2009	Program Coord.	\$2.9K, E	C,E	W2