

**UHCC December 2007 Coversheet –
Annual Instructional Program Review**

College: Hawaii Community College

Program: Diesel Mechanics

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

College Mission Statement: Hawaii Community College promotes student learning by embracing our unique Hawaii Island culture and inspiring growth in the spirit of “*E ‘imi Pono.*”

Program Mission Statement: The mission of the Diesel Program is to prepare students to be valued trades people who have the knowledge and skills necessary to effectively troubleshoot, maintain, and/or repair diesel engines, trucks, tractors, boats, and/or other heavy equipment.

OVERALL PROGRAM HEALTH (Check one)		
Healthy	Cautionary	Unhealthy
✓		

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

The program is healthy. Demand based on new and replacement positions in the county is the weakest area showing *annual new and replacement positions in the County* of only 18 compared to 1,183 for the state. The number of majors averages 21, which is higher than demand but not of significant concern since the program teaches transferable skills. Strong industry support also suggests a higher demand for qualified diesel mechanics than is indicated by the county statistics. Even with class caps for the program set higher than for many of the other Applied Technical Education (ATE) programs, class fill rates average 88%. The cost per student semester hour is reasonable compared to other ATE programs. The majority of statistics used to determine efficiency increased favorably for the current period and generally exceed the ATE program averages.

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

The program successfully implemented its prior year action plans. Additional equipment donations were received, a Perkins Program Improvement RFP was submitted and approved resulting in the

purchase of Modis Diagnostic Tool costing over \$7,000, industry contacts were strengthened and \$5,000 for annual scholarships was secured. The first scholarships were awarded for students enrolled in the 2007-08 academic year. Two \$2,500 awards were given: one to a continuing student and one to a recent high school graduate entering the diesel program. The awards are for fall 2007 (\$1,250 per student) and spring 2008 (\$1,250 per student).

Part III. Action Plan

1. Award the Hawthorne Caterpillar scholarships again for the 2008-09 academic year.
2. Further develop a relationship between Joe Shaffer, Palomar College, and the Hawaii CC Diesel Program. This will include investigating whether Mr. Shaffer would like to lecture three credits for Hawaii CC spring or fall 2008.
3. Get the C-13 engine being contributed by Hawthorne running so students can experience a more modern diesel engine than those currently available in the lab.
4. Support Guam Community College in their development of a diesel program; this relationship is being developed at the request of Hawthorne Pacific Corp, a strong support of Hawaii CC's diesel program.
5. Have an outside person assess randomly selected students performing an actual work project
6. Work with Helen Nishimoto to survey employers of recent graduates to determine their assessment of the students' skills and work ethic.
7. Continue to look for ways to replace outdated equipment.
8. Determine if class caps can be lowered to improve safety and working conditions in the classroom.

Part IV. Resource Implications (physical, human, financial)

The program is in serious need of updated and replacement equipment. The majority of equipment and tools date back to 1983 when diesel program moved to its existing facility. Faculty is actively pursuing donation of more modern equipment from industry. Other needs include the following:

1. Lecturer to teach three credits per academic	\$5,123
2. Student help – this is especially important since the program is taught by one instructor and each class has students with a variety of skill levels	\$4,856
3. Get updated engine for students to work on – the program's most recent engine is a 1983 model	\$10,000
4. Get updated transmissions: 13 and 18 speed - the program's most recent transmission is a 1981 model	\$20,000
5. Big storage tool box	\$12,000
6. Drill presses	\$5,000
7. Big bench grinder	\$2,500
8. Wire feed welder	\$5,000
9. Pressure washer	\$2,000
10. Sand blaster	\$6,000
11. Personal Copy machine – the remote location of the diesel classroom and having only one instructor makes it difficult when a copy is needed	\$1,500
12. Fax machine	\$500

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