

2008 Annual Report of Program Data Coversheet

College: Hawaii Community College

Program: Electrical Installation and Maintenance Technology

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

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)

Our endeavor is to provide the maximum learning opportunity for students to build proficiency in electrical installation and maintenance technology, current NEC National Electrical Code NFPA 70 interpretations and comprehension, current construction field and industry methodology, related field manual dexterity, and sound work ethics; in alignment with UHCC's and HawCC's mission to serve all segments of our Hawai'i Island Community.

OVERALL PROGRAM HEALTH (Check one)

<i>Healthy</i>	<i>Cautionary</i>	<i>Unhealthy</i>
	X	

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

- **Strengths and weaknesses in terms of demand, efficiency, and effectiveness based on an analysis of data.**
 - Demand Health is Cautionary because the ratio of majors (83) to new and replacement positions in the County (20) is 4.15:1. Including new and replacement positions in the State (108) the ratio decreases to .65:1; still at a Cautionary level. Although there are 83 declared majors, a cohort of 20 begin every fall semester, so there are at the most 40 students in the program at a given time.
 - Efficiency is at a Healthy level. #11 Fill Rate is at 92.5%, a Healthy percentage. The ratio of majors to BOR Faculty is 41.5; a Cautionary level. As mentioned previously although there are 83 declared majors only 40 students are in the program at one time which would change the ratio to 20; a Healthy level.
 - Effectiveness is at a Cautionary level. #19 Persistence (fall to spring)

is 84.34; a healthy level. The percentage of degrees earned (11) to majors (83) is 13%; an Unhealthy level. As mentioned previously although there are 83 declared majors only 40 students are in the program at one time which would change the ratio to 27.5%; a Healthy level. The ratio of degrees earned (11) to new and replacement positions in the County (2) is .55; a Cautionary amount. In Spring 2007, **nine** students graduated with AAS, **two** CA, **five** dropped out and was employed in industry due to demands, **one** dropped out who was a retiree from industry who just wanted to gain information and experience and not apply for a degree, **one** dropped out due to personal injury, and **six** dropped out with unknown endeavors. Eight out of the 11 who graduated are employed with local Electrical Contractors.

- Students just graduating may not qualify for some of the jobs included in data #1 and #2. Students who just graduated from HawCC with a degree or certificate do not have the field experiences. A minimum of 10,000 hours and/or 5 years of work experience under a qualified licensed electrician with the State of Hawaii and a notarized verification of experience are needed in order to qualify to take the State of Hawaii Electricians License exam.
- Perkins indicators 1P2 Vocational Achievement, 2P1 Completion, and 3P1 Placement Employment/Education are all above State Standards.

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

- **Significant Program Actions (new certificates, stop-out; gain/loss of positions, results of prior year's action plan)**
 - Continued recruitment efforts which were a significant factor in the good health standings of the EIMT Program.
 - Demand, Efficiency, and Effectiveness Health Indicators for AY 2007 seems to be done with different calculation methods than previous years. This may be the cause of "Cautionary" status for AY 2007. EIMT program will monitor indicators for the next two years to verify.
 - The Perkins Funding replaced and upgraded some of the outdated and unsafe tools and equipment.
 - The EIMT Program removed itself from participating in the model home project as it did not fit nicely into its fourth semester curriculum. Also there were liability issues concerning instructors using personal State of Hawai'i Electrical Journeyman & Electrical Contractors' Licenses for obtaining County of Hawaii electrical permits.

Part III. Action Plan

- **Action Plan**

- Continue recruitment efforts.
- Continue developing a priority list of equipment upgrades and replacements and purchase as funding becomes available.
- Hold an Advisory Council's meeting.
- Continue to review and update student learning outcomes and receive validation from industry.
- Continue request for a new replacement van.
- Continue to pursue HawCC Auxiliary to post "No Smoking", "Speed Limit", and "No Loud Music" signs on campus at strategic areas. This is a health, safety, and learning concern which come from students and instructors. Interruptions and distractions greatly affect the learning outcome of each student. Security guards on campus must enforce these areas for a healthier and safer environment.
- Continue to solicit donations from industry.
- Continue to develop assessment tools to evaluate student achievements.
- Complete curriculum modification to introduce sustainable energy into the fourth semester curriculum. This modification will be on "the installation and maintenance of photovoltaic systems." The curriculum will cover "power generation" and flow into "motor controls." This course will have a great impact for students as they venture into the construction industry.
- Continue efforts to acquire funds to purchase a photovoltaic training system as well as funds to cover instructor's salary.

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

CHART 1: PHYSICAL FACILITIES ASSIGNED TO PROGRAM

List Bldng/Rm/Lab/Shop	Describe Renovation/Repair Needed	Estimated Cost
Building 391/17 Laboratory	-increase square footage to provide efficient working space for student workstations -replace light fixtures -improve electrical -repair exhaust fans -replace racking systems -repair hoist system -replace air compressor system -upgrade air-conditioning system	\$ 975,000.00
Building 391/18, 22 Faculty Offices	-install separate phone lines -replace furniture -replace all light fixtures	\$ 150,000.00

	<ul style="list-style-type: none"> -replace ceiling tiles -upgrade electrical outlets -improve internet cable layout -upgrade air-conditioning system 	
Building 391/23, 24 Lecture Rooms	<ul style="list-style-type: none"> -replace louvers -replace furniture -replace light fixtures -replace ceiling tiles -install fixed projection system -provide additional internet lines -upgrade air conditioning system 	\$58,000.00
Building 391/12, 13, 14, 15, 16, 20, 21 Storage / Tool Rooms	<ul style="list-style-type: none"> -replace light fixtures -replace ceiling tiles -replace racking systems -improve electrical 	\$ 400,000.00

CHART 1A: INVENTORY LIST: EQUIPMENT & CONTROLLED PROPERTY

Program Assigned Equipment (E) and Controlled Property (CP) (List in order of chronological depreciation date)	Category: E =item value > than \$5K CP =item value \$1K - \$5K	Expected Depreciation Date	Estimated Replacement Cost
(2007) 4" EMT Bender	E	2007	\$20,000.00
(2007) Fluke Kit	CP	2008	\$2,500.00
(2005) Power MIG	CP	2006	\$2,300.00
(2005) Thermal Dynamics Plasma Cutter	CP	2006	\$2,700.00
(1999) Bender	CP	2000	\$3,500.00
(1992) Motor Control Center	E	1993	\$7,500.00
(2004) Dell Computer	CP	2005	\$3,000.00
(2002) Computer PDC	CP	2003	\$3,000.00
(2007) Plate Compactor	CP	2008	\$2,500.00
(1994) Chevrolet Truck	E	1995	\$45,000.00
(1985) Van Dodge	Unsafe to operate. In process of	1986	\$30,000.00

	discarding.		
(2003) Threader Machine	CP	2004	\$4,500.00

CHART 2: PERSONNEL

Instructors
1. Harry Takiue, Associate Professor
2. Patrick C. Pajo, Assistant Professor
3. Renee DelaCruz, Lecturer

CHART 3: BUDGET REQUESTS

Describe Item	Biennium Request – 1 st Yr.	Biennium Request – 2 nd Yr.	Reallocation of Funds and/or Positions	X Amt. Line Item
10 Passenger Van (2 ea.)	X	X		\$70,000.00
Pick-up Truck Crew Cab	X	X		\$45,000.00
Computers and Specific Programs for Student Lab	X	X		\$20,000.00
Television Sets	X	X		\$4,200.00
Photovoltaic System & Instructors Salary	X	X		\$100,000.00
Furnishings	X	X		\$20,000
Permanent Computer Projection System	X	X		\$6,000