

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

**College: Hawai'i Community College**

**Program: Electrical Installation and Maintenance Technology**

<b>Check All Credentials Offered</b>	<b>AA</b>	<b>AS</b>	<b>ATS</b>	<b>AAS</b>	<b>CA</b>	<b>CC</b>	<b>COM</b>	<b>ASC</b>	
				<b>X</b>	<b>X</b>				

*College Mission Statement (or provide link)*  
**See web page 6 at**  
[http://hawaii.hawaii.edu/learningresources/Catalog\\_2006-2007.pdf](http://hawaii.hawaii.edu/learningresources/Catalog_2006-2007.pdf)

*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.**

<b>OVERALL PROGRAM HEALTH (Check one)</b>		
<i>Healthy</i>	<i>Cautionary</i>	<i>Unhealthy</i>
<b>X</b>		

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

**C. Table 8—Data Elements**

	AY 04-05	AY 05-06	AY 06-07
EIMT			
1. Annual new and replacement positions in the State	2834	2834	2834
2. Annual new and replacement positions in the County	61	61	61
3. Number of majors	57	76	80
4. Student Semester Hours for program majors in all program classes	432	432	384
5. Student Semester Hours for Non-program majors in all program classes	0	0	0
6. Student Semester Hours all program classes	432	432	384
7. FTE Program enrollment	28.8	28.8	25.6
8. Number of classes taught	2	2	2
9. Determination of program's health based on demand (Healthy, Cautionary, or Unhealthy)	Healthy	Healthy	Healthy
10. Average Class Size	18	18	16
11. Class fill rate	90%	90%	80%
12. FTE of BOR appointed program faculty	2	2	2
13. Student/Faculty ratio	28.5:1	38:1	40:1
14. Number of Majors per FTE faculty	35.63	47.5	50
15. Program Budget Allocation (Personnel, supplies and services, equipment)	\$82,506.00	\$82,140.00	\$81,852.00
16. Cost Per Student Semester Hour	\$190.99	\$190.14	\$213.16
17. Number of classes that enroll less than ten students	0	0	0
18. Determination of program's health based on Efficiency (Healthy, Cautionary, or Unhealthy)	Healthy	Healthy	Healthy
19. Persistence of majors fall to spring	75.44%	63.16%	80%
20. Number of degrees earned (annual)	10	10	9
21. Number of certificates earned (annual)	10	10	2
22. Number of students transferred (enrolled) to a four-year institution in UH	0	0	0
23. Perkins core indicator: Academic Attainment(1P1)	90.00%	90.91%	86.96%
24. Perkins core indicator: Technical Skill Attainment (1P2)	5.00%	100.00%	92.00%
25. Perkins core indicator: Completion Rate (2P1)	70.00%	56.52%	40.00%
26. Perkins core indicator: Placement in Employment Education, and Military (3P1)	84.62%	64.29%	76.92%
27. Perkins core indicator: Retention in Employment (3P2)	81.82%	77.78%	80.00%
28. Perkins core indicator: Non Traditional Participation (4P1)	7.02%	13.46%	13.33%
29. Perkins core indicator: Non Traditional Completion (4P2)	7.14%	14.29%	16.67%
30. Determination of program's health based on effectiveness (Healthy, Cautionary, Or Unhealthy)	Healthy	Healthy	Healthy
31. Determination of program's overall health (Healthy, Cautionary, or Unhealthy)	Healthy	Healthy	Healthy
32. Number of FTE Faculty	2	2	2

## **Quantitative Data Analysis**

Item #3/Number of Majors illustrates a significant gain which indicates a healthy program.

Items #4, #6/Total Student Semester Hours All Programs and item #7/FTE Program Enrollment dipped slightly in AY 06-07 due to students applying and being hired at various electrical companies. Job placements indicate a high demand in the electrical field.

Item #20/Number of Degrees Earned (annually) and item #21/Number of Certificates Earned (annually) are normal due to student job placements.

Item #10/Average Class Size illustrates a healthy program which indicates a high demand in the electrical field and the interest of traditional and non-traditional students in the electrical field.

Item #12/FTE of BOR Appointed Program Faculty and item #32/Number of FTE Faculty based on contact hours (21), are a constant and should not change in the near future.

Item #13/Student Faculty Ratio illustrates a rise which indicates the popularity of the EIMT Program

Items #15/Program Budget Allocation illustrates a dropped in AY 05-07 which indicates the need to increase the budget due to the rising cost of material and equipment.

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

- Continued recruitment efforts were a significant factor in the good health standings of the EIMT Program.
- The Perkins Funding replaced and upgraded some of the outdated and unsafe tools and equipment.
- No Advisory Board meetings were held lately due to the retirement and semi-retirement of majority of the board members.
- Currently, SLO's are being assessed and fine tuned.

***Part III. Action Plan***

• **Action Plan**

- Continue recruitment efforts.
- Continue developing a priority list of equipment upgrades and replacements through funding that becomes available.
- Hold an Advisory Council's meeting.
- Finalize Course SLO's.
- Efforts in implementing a "Sustainable Energy" course into the fourth semester are in progress. The EIMT Program is currently pursuing grants to purchase a "Photovoltaic System" and to train the Instructors. The system will be used as a tool to assess SLO's. One instructor will visit Maui Community College through the WO Faculty Exchange Grant.
  - The objective of the exchange is to gain knowledge in photovoltaic system designs to assist in proposing a similar course during the spring semesters as a module in the EIMT Program.
  - The expected outcomes of the visit are to use the ideas and knowledge to develop a curriculum to teach basic photovoltaic applications and to design an actual working photovoltaic system for students' hands-on applications.

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

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**CHART 1: PHYSICAL FACILITIES ASSIGNED TO PROGRAM**

<b>List Bldng/Rm/Lab/Shop</b>	<b>Describe Renovation/Repair Needed</b>	<b>Estimated Cost</b>
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 -replace ceiling tiles -upgrade electrical outlets -improve internet cable layout -upgrade air-conditioning system	\$ 150,000.00
Building 391/23, 24 Lecture Rooms	-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	-replace light fixtures -replace ceiling tiles -replace racking systems -improve electrical	\$ 400,000.00

**CHART 1A: INVENTORY LIST: EQUIPMENT & CONTROLLED PROPERTY**

<b>Program Assigned Equipment (E) and Controlled Property (CP) (List in order of chronological depreciation date)</b>	<b>Category: E =item value &gt; than \$5K CP =item value \$1K - \$5K</b>	<b>Expected Depreciation Date</b>	<b>Estimated Replacement Cost</b>
(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	E	1986	\$30,000.00
(2003) Threader Machine	CP	2004	\$4,500.00

**CHART 2: PERSONNEL**

<b>Instructors</b>
1. Harry Takiue, Associate Professor
2. Patrick C. Pajo, Assistant Professor
3. Lecturer

**CHART 3: BUDGET REQUESTS**

<b>Describe Item</b>	<b>Biennium Request – 1<sup>st</sup> Yr.</b>	<b>Biennium Request – 2<sup>nd</sup> Yr.</b>	<b>Reallocation of Funds and/or Positions</b>	<b>X Amt. Line Item</b>
10 Passenger Van (2 ea.)	X			\$60,000.00
Pick-up Truck Crew Cab	X			\$45,000.00
Permanent Computer Projection System	X			\$6,000.00
Television Sets		X		\$4,200.00
Furnishings		X		\$20,000.00
Photovoltaic System	X			\$50,000.00

*Posted to College website at:*  
[AY 2007 Completed Reviews](#)