

# 2024 Annual Report of Program Data Electronics Technology



## 1. Program or Unit Mission

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*Program or Unit Mission or Purpose Statement. (This statement will likely not change each year. You may copy/paste from last year unless there was a significant change.)*

This program prepares students for employment in telecommunications, medical electronics, computers, and industrial electronics. The electronic technician fabricates, installs, maintains, and repairs electronic equipment. Students applying to the electronics program should have two years of high school math including geometry or algebra, and two years of high school science including chemistry or physics.

## 2. Program Student Learning Outcomes or Unit/Service Outcomes

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*For the past year, please indicate which program student learning or unit/service outcomes were assessed, assessment results, and what changes will be made to address the results.*

Upon successful completion, students are prepared to:

- Specify, design, build, install, program, operate, troubleshoot, analyze, and modify electronics systems, automated test, and manufacturing control systems.
- Specify, install, program, operate, troubleshoot, and modify computer systems.
- Have effective written, interpersonal, presentation, and team building skills.
- Have the necessary leadership and management skills to effectively complete a project.
- Have a well-developed sense of work ethics and personal discipline to succeed in their chosen profession.
- Have attitudes, abilities, and skills required to adapt to rapidly changing technologies and a desire for life-long learning.

Over the past year, no CLOs or PLOs were assessed.

### **3. Analysis of the Program/Unit**

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*Use this section to discuss the annual report of program data (ARPD data) and/or any other data used to assess your program or unit in terms of demand, efficiency, and effectiveness and with respect to the goals of your last comprehensive program/unit review. What program changes have occurred? Discuss significant program or unit actions (new certificate(s), stop outs/unit, gain/loss of position(s), etc.).*

*Instructional programs must provide the URL for the program's ARPD data tables and attachment(s) for relevant program-developed metrics discussed in this Review; non-instructional units must provide URLs for unit-specific data and attachment(s) for relevant unit-developed metrics discussed in this Review.*

*\*CTE programs must include an analysis of Perkins Core indicators for which the program did not meet the performance level.*

ARPD URL: <https://uhcc.hawaii.edu/varpd/index.php?y=2024&c=HAW&t=CTE&p=3004>

This program has been on stop out and is not taking new students for the 2024-2025 and 2025-2026 academic years. The reason for the stop out is that the faculty left during the pandemic and the position was never given back to fill. We had sufficient student enrollment and were articulated with the Maui College baccalaureate engineering program. During the pandemic they also closed the Maui program.

There is a strong need for this program to be reinstated and included as an offering at Hawaii Community College. [Data from the Bureau of Labor Statistics linked here.](#)

There is no faculty or program coordinator for this program. The division would like to make a case for the hiring of an expert/faculty/program coordinator to take on the task of bringing this program to the college.

Perkins Core Indicator: 3P1 Nontraditional participation was NOT MET. This is because the program is on stop-out and does not have students enrolled in the program.

### **4. Action Plan**

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*Based on findings in Parts 1-3: How well has the program/unit met the goals from your last Comprehensive Program/Unit Review's action plan(s)? What changes are you making to your action plan(s) for the next year? Include external factors affecting the program or unit. Discuss how these recommendations for improvement or actions will guide your program or unit until the next Comprehensive Review. Specify how the action plan(s) aligns with the College's [Mission](#) and the [Ka'ao Ka'ika'i Strategic Plan](#). Be sure to list resources that will be required, if any, in section 5 below.*

*\* CTE programs must include specific action plans for any Perkins Core Indicator for which the program did not meet the performance level.*

## Electronics Technology

The program did not take any actions to meet goals set from previous reviews since there has been no faculty or coordinator.

The program recommends the following action items to restart, reinvigorate, re-vision, and re-integrate the ETRO program into Hawaii CC's offerings and the Big Island's job markets.:

- hire a highly qualified and knowledgeable expert who can help the college restart the program by restructuring of the curriculum to meet current industry and community needs.
- look at possible connections to 4-year degree programs
- review current equipment/teaching materials and upgrade as necessary
- update and meet with advisory council members
- Curriculum Updates for an AAS in ETRO to be implemented AY 2026-2027.
  - update CLO to include diagnostic skillset to right-size curriculum to existing industry targets.
  - Incorporate high levels of applied computer and network engineering into the program to ensure industry valued skill sets
  - Provide basic computer programming curriculum to allow students to understand electronic automation techniques as it relates to industry
- Focus on industry partners for capstone opportunities during the program such as Astronomy, Power Distribution, State and Local government and Private Sector IT companies in Computer Engineering, Networking and Radio Frequency technology.

## 5. Resource Implications

### **Special Resource Requests not included in your operating "B" budget**

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*Detail any special resource requests not funded by your regular operating budget, including reallocation of existing resources (physical, human, financial) to support action or Perkins plans. \*Note that CTE programs seeking future funding via UHCC System Perkins proposals must reference their ARPD Section 4. Action Plan and this ARPD Section 5. Resource Implications to be eligible for funding.*

**I am NOT requesting additional resources for my program/unit.**

**I AM requesting additional resource(s) for my program/unit.**

**Total number of items being requested: 1 (4 items max.)**

#### **✔ Item Description:**

Hire a program lead, i.e., a knowledgeable person who will be dedicated to helping the College restart this program. If possible, the Program requests that the College approve reassigned time of 6 TE per semester to a lecturer for the upcoming academic year, AY25-26. This person would focus on:

- updating the curriculum, equipment and materials as needed
- outreach to and re-organization of the advisory council
- drafting APR/CPR and other Program reports as needed
- program marketing and student recruitment

✓ **Justification:**

The wages in this industry are very good. ARPD stated 69 jobs statewide. However, the U.S. Bureau of Labor Statistics says we had 500 jobs last year. So, the outlook for student employment is very good.

<https://www.bls.gov/oes/current/oes173023.htm>

✓ **Alignment to the [Ka'ao Ka'ika'i Strategic Plan AY2023 - AY2029](#):**

Each resource request must align with one or more of our Strategic Plan Core Commitments:

The resource request aligns with the 3 highlighted

<b>Ka'ika'i Kuleana</b>	Fulfill kuleana to Native Hawaiians and Hawai'i Island.
<b>Ka'ika'i Haumāna</b>	Develop successful students for a better future.
<b>Ka'ika'i Oihana</b>	Meet Hawai'i Island's workforce needs of today and tomorrow.
<b>Ka'ika'i Noi'i</b>	Diversify Hawai'i Island's economy through innovation and multi-sector partnerships.
<b>Ka'ika'i Kauhale</b>	Build and Maintain the Wellbeing of the College Kauhale.

*For each item requested, make sure you have gathered the required information listed on the table below and all relevant documentation before you upload this Review to the submission portal (upload link is below).*

<b>ALLOWED CATEGORIES</b>	<b>Category-Specific Information Needed</b>			
	<b>Personnel Resource</b>	Estimated Date Needed ASAP	FTE; Position Type; Position Title  Reassigned time for a lecturer	Estimated Salary  Lecturer salary for 6 TE