

Carpentry Technology

ANNUAL REPORT OF PROGRAM DATA 2023



UNIVERSITY of HAWAI'I
KAUA'I
COMMUNITY COLLEGE



2023 Annual Report of Program Data

Carpentry Technology

1. Program or Unit Mission

The Carpentry Technology program provides the basic entry-level skills in the construction of buildings. Skilled carpenters are required in areas of new building construction, repair, and alteration of buildings. The program provides an introduction into the sustainable and green construction methods and materials, while offering instruction in the state's building codes for energy efficiency. This program also enhances the graduate's entry into the carpenter's apprenticeship program.

The Carpentry Technology program directly aligns with the college's mission statement of inspiring, engaging, and empowering learners and educators. Our students enter the program with little to no knowledge of carpentry and leave with a good breadth of knowledge in all areas of the building construction trade. Our students learn in and out of the classroom and we pride ourselves in providing exceptional hand-on training project-based learning, backed up with the math, science, and English skills needed to thrive in the building construction trade.

The Building Construction proposal was abandoned since the last APRU and reviewed during the CARP 2022 CPR. The decision was based on the increased enrollment and the needs of trained employees for the island employers. During the last three (3) years the program has been growing but has declined this year.

The decision was made in 2021 to consolidate the Electro-Mechanical CO of FENG with the EIMT program and the Facility Maintenance CO combined with the Carpentry and keep the two programs separate. The Facilities Engineering program was closed to future enrollment and has been stopped out as of spring 2023. We are still working on trying to match Maui's courses as closely as possible so that articulation agreements can be made for a pathway for those wanting to continue their education with Maui College and West Oahu in Construction Management.

Part I.	Program Description
Date of Last Comprehensive Review	11/17/2022
Date Website Last Reviewed/Updated	10/2/2023
Target Student Population	Current Kaua'i DOE High School Students and 20 to 40 year olds looking to change occupations to learn a construction trade. Military students looking to utilize their GI Bill.
External Factor(s) that Affected the Program or Unit	Carpentry Union, Building Construction Pathways at DOE, Alu Like program "Kai kai a' o' Program", and internships with various contractors on island.

2. Program Student Learning Outcomes or Unit/Service Outcomes

After the program was redirected, the PSLO's for AY 2022-23 reverted back to the approved 9/17/2014 PSLO by the Assessment Committee and the Building Construction PSLO's were discontinued. The CARP Program last assessed with the below PLSO's was in AY2022-23.

CARP	Instructions: Indicate all ISLOs (column C) that apply to each PSLO. More than 1 may be listed.	
	Link to refer to ISLOs (use the number associated with the ISLO that applies to each PSLO)	
PSLO #	PSLO - approved 02/15/2022	ISLO #(s)
1	Read and understand blueprints sufficiently to use them to plan a project.	3, 5, 6
2	Select materials properly for a given project that comply with published codes and deliver energy efficient outcomes.	4, 5, 6
3	Maintain and care for the tools required in the construction industry.	7
4	Utilize Occupational Safety and Health Administration (OSHA) and State safety regulations to minimize risk and protect self and others.	5, 6, 9
5	Communicate successfully orally and in writing using computer technology.	1, 2
6	Demonstrate the craftsmanship standards of dependability, punctuality, and quality.	4, 8, 9
	Completed	10/3/2022

The last completed Assessment data that was gathered before the revision is listed below using the AY2022 – 2023 data:

PSLO	Assessed During APRU Cycle 2023 (Y or N)	Findings Documentation gathered by Instructors through recording scores and Lailima LMS.	Improvements Implemented	Next Assessment Date
Read and understand blueprints sufficiently to use them to plan a project.	Yes	All students passed with 70%	In a previous semester we framed walls for Habitat for Humanities. In Fall 22 we used the blueprint of the previous semester to place the walls in the proper location. In the Spring 23 semester, we used cabinet drawing to install kitchen cabinets in homes for Habitat for Humanities.	Annually
Select materials properly for a given project that comply with published codes and deliver energy efficient outcomes.	Yes	All students passed with 80%	On one of our projects, we installed a radiant barrier as required by local building codes to reduce the amount of heat transferred through the roof into the attic of a building.	Annually

PSLO	Assessed During APRU Cycle 2023 (Y or N)	Findings Documentation gathered by Instructors through recording scores and Laulima LMS.	Improvements Implemented	Next Assessment Date
Maintain and care for the tools required in the construction industry.	Yes	All students passed with 90%	Students can improve on maintaining basic hand tools more efficiently. Broken or worn out equipment has been tagged and taken out of service. Over the summer we consolidated all of our hand tools and inventoried it. We're implementing a sign out system to better keep track of our hand tools and keep our students accountable.	Annually
Utilize Occupational Safety and Health Administration (OSHA) and State safety regulations to minimize risk and protect self and others.	Yes	All students passed with 90%	Proper use of PPE at all times is carefully monitored. Students are also involved in making sure their classmates are being safe.	Evaluated on a daily basis
Communicate successfully orally and in writing using computer technology.	Yes	All students passed with 70%	Students are constantly communicating orally when manipulating formulas to calculate the proper amount of material. A considerable amount of time is spent in the classroom creating a "Game plan" for each project. This requires the students to engage with each other to complete various projects and tasks. There are also online assignments students need to complete and a written review is a part of their assignment.	Annually
Demonstrate the craftsmanship standards of dependability, punctuality, and quality.	Yes	All students passed with 80%	Students are required to redo work that is of poor craftsmanship or quality.	Weekly

3. Analysis of the Program/Unit

This year report is located and shared at the following url:

<https://uhcc.hawaii.edu/varpd/index.php?y=2023&c=KAU&t=CTE&p=2833>

Demand Indicators:

During the last year the carpenter's union has increased their presence in the high schools. They place high school seniors in an internship program with a direct entry into their apprenticeship program. In the past two summers, I've lost at least four students that I know of that enrolled into my program in the beginning of summer, but then joined the carpenter's union apprenticeship program. I even lost a third semester student almost three quarters way through the semester drop out to join the carpenter's union. The demand indicators list the state and county demand, but not

the private sector demands which are greater. Another program I'm losing students to is the Ho'akeolapono Trades Academy, non-profit organization that offers another paid internship program. I can't compete with the union's "Earn while you learn" motto or with other paid internship programs. What I'm really having to do is market how valuable the community college being a safe learning environment is more beneficial in the long run.

During the last year, the number of majors has increased, from 12 up to 14. The data also shows the number of full-time students dropped in the spring semester from the fall semester, this is because a number of students dropped from an AAS to CA. I also had a student join in an odd semester that finished in fall 22. The number of SSH Program Majors in Program Classes has increased from 213 to 291. My SSH Non-Majors in Program Classes has dropped from 430 to 325, and my SSH in All Program Classes dropped from 643 to 616. AY 2021-2023 my FTE has been 21 an increase from AY 2021-2021, I believe this is due to the implementation of Early College. The total number of classes taught has increased from AY2020 thru AY 2023 from 4 to 17 to 22 and this is also due to the increase in Early College Classes.

Efficiency Indicators:

The Average Class size for the CARP Program has dropped from 12 to 9. That's because I had a student complete in the program at the end of fall 22 because he started in an odd semester, then I lost two students that opted to go work full time instead of going to school. They both needed to help pay bills in their home. Hence, the Fill Rate decreased from 81.7% to 62.5%. The FTE BOR Appointed faculty remaining at one. The Majors to FTE BOR Appointed Faculty increased from 12 to 14 due to the fact that students completed my CARP classes were still pursuing their AAS or CA degree. The Majors to Analytic FTE Faculty also increased from 6 to 7 for the same reason. The number of Low Enrolled classes increased from 5 to 13 due to the increase in Early College Classes. An on-going problem we're having with Early College is that our lecture has a mix of Early College and Non-Early College Students.

Effectiveness Indicators:

Successful Completion Rate has increased from 77% to 91%. Withdrawals are down 24 to 3. I'm not sure why AY 21-22 had 24 withdrawals. This could be reflecting Early College Classes, but I'm not sure because I don't have that data. I'm also not sure why AY22-23 has 3 withdrawals, there should be 2. Persistence fall to spring dropped from 92% to 73% due to a completion and a couple of withdrawals and I'm not sure why Persistence fall to fall dropped from 100% to 38%. This could also be reflecting Early College data, and again I can't confirm because I don't have that data. My Unduplicated Degree/Certificates Awarded increased from 1 to 4, Degree Awarded rose from zero to 3, and Certificates of Achievement Awarded also increased from 1 to 4.

Distance Education

(Completely On-line Classes) The CARP program does not offer Distance Learning at the current time.

Perkins Core Indicators:

The CARP Program did meet the Perkins Core Indicators for Post-Secondary Placement. Our goal was 33 and we met it with 100. Earned Recognized Credentials were met. Our goal was 34 and we had 80. Nontraditional Program Concentration had a goal of 11 and we met it with 17. I'm also glad to report that we graduated our first female graduate in our program's history.

Performance Indicators:

Our CARP program is a two year cycle program that enrolls new students every fall semester so our number of degrees fluctuates AY to Ay. The Number of Degrees and Certificates increased from 1 to 7. The number of Native Hawaiian Degrees and Certificates increased from zero to 4. The Number of Pell Recipients increased to 4 from 1.

4. Action Plan

These AY numbers are continuing to decline. I know next year's APRU numbers are going to be concerning. I've already started to address this issue. My action plan is to have a heavier presence in the high schools. I've already presented my carpentry program to a group of over 40 students at Waimea high School. This was a collaboration with their Career Counselor Clarisse. We had just over an hour to present the CTE Programs that we offer at KCC. We are scheduled to have a handful of high school seniors interested in carpentry shadow my class on 11/29/23. I'm also going to do a follow up visit next semester before the summer break. I'm also thinking about marketing heavily to our student athletes at the high school. The reasoning behind this strategy is because over my 10 years here at KCC and my many years of industry experience, I've observed that student athletes have a higher success rate in both classroom and industry. So I'm going to inquire with all high school principals and athletic directors to see if it's possible to have some kind of presence at each high school sports event. I'm envisioning flyers at the main entrance free for parents to pick up to showcase what we have to offer in the form of higher education in the construction industry. This idea was sparked by a conversation I had with Waimea High School Principal Mahina. She said "We need to market to parents, because they're the ones that's going to encourage the kids at home. Another action plan is to pursue an accreditation through the National Center for Education and Research or NCCER. It's a curriculum accreditation with national recognition that could increase job placement not just here at home but across the nation.

5. Resource Implications

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

In order to improve student learning outcomes and prepare students for the workforce, adequate and updated equipment is essential for the program to progress and produce quality students. As the program evolves with more off campus job site construction and training, this new equipment is needed. I also believe that soon we could utilize an ATP to support the various needs between the EIMT and CARP programs to also assist with the FENG and WELD courses and coordinate the picking up of materials for on and off campus projects.

Program Goal	Complete On and Off Campus Training Projects to allow students a variety of opportunities.
Resource Requested*	F450 or equivalent Flatbed with Crew-CAB with dump bed and lumber rack
Cost and Vendor	\$80,000 Dealership
Annual Recurring Cost	\$1000.00 Maintenance and Gas
Useful Life of Resource	20 Years
Person(s) Responsible and Collaborators	Duke Lang
Timeline	2023-2043

Program Goal	Complete On and Off Campus Training Projects to allow students a variety of opportunities.
Resource Requested*	Replacement Bobcat Skid steer and/or with excavator attachment
Cost and Vendor	\$40,000 Plus Shipping & Tax \$5,000 Vendor: Volume Sports
Annual Recurring Cost	\$1000.00 Maintenance and Gas
Useful Life of Resource	20 Years
Person(s) Responsible and Collaborators	Duke Lang
Timeline	2023-2043

2023 Kaua'i Community College ARPD
Program: Carpentry Technology

Program Goal	Industry training
Resource Requested*	Heavy Equipment Simulation Program and software
Cost and Vendor	\$80,000 Plus Shipping & Tax \$5,000 Vendor: Simlog
Annual Recurring Cost	\$1000.00 software upgrade
Useful Life of Resource	20 Years
Person(s) Responsible and Collaborators	Duke Lang
Timeline	2023-2043