

# ANNUAL

REPORT OF PROGRAM DATA

# 2023

A photograph of a campus landscape featuring a winding paved path, green grass, and modern buildings in the background. The image is overlaid with a semi-transparent purple filter and a white geometric design consisting of several intersecting lines forming a diamond shape.

UNIVERSITY of HAWAI'I  
**HAWAI'I**  
COMMUNITY COLLEGE

**July 1, 2022 through June 30, 2023**

Carpentry

## 1. Program or Unit Mission

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The Carpentry Program allows students to participate in the “foundation-to-finish” experiences necessary to build a basic residential house while completing the required carpentry coursework. Students will graduate from the Carpentry program with the knowledge and experience necessary to begin employment at the entry level in the construction industry, or enter a four-year apprenticeship program. Credit may be given in the apprenticeship program for work completed at Hawai‘i Community College.

*What is the target student or service population?*

Without discrimination, the Carpentry Program targets any student interested in seeking the knowledge and skills needed to be employable in the Construction Industry. The program disseminates relevant information to prospective students in the Intermediate to High School levels that would give them an awareness of the opportunities that are available for them in attending the program. The program also gives emphasis to recruiting and educating nontraditional students who are contemplating learning the carpentry trade.

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

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The Carpentry program has experienced numerous transitions and challenges over the past year. One of the two full time faculty had to take emergency medical leave, and eventually retire in the middle of the Spring 2023 semester. Due to these unforeseen circumstances, CARP 151 was not assessed in the Fall 2022 semester. The Carpentry program will make an effort to get back on track with our goal to assess every course according to the course assessment schedule.

CARP 155 was assessed during the Spring 2023 semester. Course Learning Outcomes 1-5 were assessed using a rubric. The assessor observed students participating in a hands-on learning lab on the topic of building a concrete masonry wall. Ten students were assessed individually. The majority of the CLOs were assessed as proficient and positive comments were given. Some comments were,

*“Student understands hand skills, quality workmanship, focus on project and in a timely manner.”*

*“Great attitude, work together. Help each other when needed.”*

*“Clean work area.”*

*"Instructor explains well to students how to approach project and how much needs to get done safely."*

Some students were assessed as developing proficiency regarding CLO 2 & 3. Some students progress at a slower rate than others. Carp instructors will continue to focus on remedial efforts for students that need it. CARP instructors are committed to student success and will continue to give extra attention to the students that need.

<b>CARP 155 - CONCRETE FORM CONSTRUCTION</b>	"CLO 1: Use math to construct projects."	PLO 1
	"CLO 2: Identify and differentiate different building materials and fasteners."	PLOs 2, 4, 7
	"CLO 3: Demonstrate general and personal safety practices when using power tools in the construction of the Model Home"	PLO 3
	"CLO 4: Practice good work ethics."	PLO 5
	"CLO 5: Practice quality workmanship within the industry standard guidelines."	PLOs 4, 5, 6
	"CLO 6: Interpret construction plans when constructing the Model Home."	PLO 6
	"CLO 7: Apply building codes when constructing the Model Home."	PLO 6

### 3. Analysis of the Program/Unit

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#### Carpentry Technology ARPD

#### **Demand Indicators**

Industry demand indicators show a slight decline in the number of carpentry positions for state and county jobs. This is not concerning due to the carpentry industry having a very high demand for skilled workers. The carpenter's unions and private industry contractors are generally understaffed and seeking to employ HAWCC CARP program graduates.

#### **Efficiency Indicators**

The average class size grew by one student, increasing to 12 students in 2022-23. This positive growth is a reflection of increased recruitment efforts. There were no low enrolled CARP classes during the 2022-23 academic year.

### **Effectiveness Indicators**

Successful completion of the program dropped from 100% to 95%. Although this is a decrease from the previous year, this completion rate is higher than the previous two years. The rate would have been 100%, but one student had to move in January 2023, and the student was unable to complete the requirements of the CARP associate degree. Four students withdrew from the program. All four of these students withdrew during or at the end of their first semester. The first semester of CARP allows students to explore a career in the carpentry industry and some students realize they do not wish to pursue a future in carpentry. The transition of permanent CARP faculty has been a major as well. We hope to hire a highly qualified and reliable instructor that will aid in fortifying the CARP program moving forward. Persistence from Fall '22 to Fall '23 declined slightly, down 4%. Two students did not return to complete their second year in the program. One student is an active member of the Hawaii National Guard, and received an offer for full-time employment that he couldn't refuse. The other student decided to change his major to AMT at HAWCC. Although we wish students would complete the CARP program once they commit to it, enrolling in another HAWCC trade program is a great option for students that realize carpentry is not for them.

## **4. Action Plan**

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The Carpentry program has done a good job of meeting the majority of the goals from the last program review action plan. The program has faced numerous challenges during the past academic year. We lost a tenured, full time faculty member suddenly, leaving his position to be filled by an emergency hire lecturer in January 2023. This position is still vacant and recruitment has not commenced at the time of this report. It has been difficult to move the program forward without two full time instructors.

CARP has begun to incorporate basic machine operating into the curriculum. The purchase of a mini-excavator, skid steer, and hydraulic dump trailer was made possible through a Perkins Grant. The addition of these machines to the CARP program will make our students to be trained on the basic safe operation of these machines. This will make our graduates more well-rounded builders. CARP students use the machines in order to grade, excavate and move materials at the model home project and on campus at HAWCC. We will need more a reliable towing vehicle in the future in order to safely transport the trailer and the machines.

The Annual Model Home project was put on a procurement violation in January 2022, and Model home 55 was not allowed to worked on until the Spring of 2023. This also meant that we needed to skip one year of building a model home with the HAWCC students. This project is a huge part of our curriculum, and the loss of this project left a large void in the hands-on student learning

experience for the different programs that participate in this project. We are experiencing increased challenges with the permitting, and procurement processes that are required to initiate the building of the Model Home. We are currently seeking solutions to make this a more streamlined process.

The Carpentry Program is aligned Hawaii Community College's mission. All 2023 CARP graduates are currently employed in the construction industry. The CARP program promotes lifelong learning and encourages our students and graduates to seeking knowledge in regards to construction and otherwise. Also, we will continue to create an environment conducive to learning for non-traditional students so the experience can be rewarding and enjoyable.

## **Action Plan**

1. Continue to collaborate with the DOE counterparts when Career Days or Expos are conducted virtually or by Zoom to participate in providing valuable information to prospective students about how the program will take all the safety precautions based on the CDC guidelines to create a safe learning environment and still be able to have the students gain valuable life experiences to prepare them for their future.
2. We will continue to explore options that will aid in increased enrollment and degrees awarded. Some options are dual credit for high school students The Carpentry program has been actively seeking multiple options for Dual Credit opportunities for our Hawaii Island high school students. With collaboration from the AEC program at HAWCC we have been meeting regularly to work toward creating new student opportunities, and will continue to do so in the coming year.
3. The Carpentry Program has a strong history of serving the Hawai'i Island community for nearly 80 years. Enrollment has traditionally been consistent and the demand for this program in regard to industry has remained high. The Hawaiian Homes Model Home construction project remains as one of Hawai'i Community College's most highlighted community initiatives. This project offers students valuable on-the-job training while providing a valuable service to the community. Collaboration with other trade programs has been a priority for CARP. We will continue to pursue these partnerships to allow for multiple learning opportunities that benefit our Hawai'i island community. This directly aligns with the Mission statement and principles put forth by Hawai'i Community College of promoting lifelong learning and emphasizing the knowledge and experience necessary for Kauhale members to pursue academic achievement and workforce readiness.
4. The CARP program will seek to increase industry involvement by holding more frequent meetings with industry council members, as a group or individually. CARP program has added new industry-active members to add to our advisory council. This has assisted the program faculty to gain knowledge of current industry practices, trends, standards,

technology and procedures. We also see the value of making connections with the industry members that will be seeking to employ our students.

5. The Carpentry program will continue to work closely with our industry advisory board. According to our advisory council, the Carpentry program is due for some changes in order to ensure the curriculum meets industry demands. The CARP program will continue to implement further curriculum and equipment advances pertinent to current industry standards.
6. CARP faculty will seek professional development opportunities that are pertinent to keeping our knowledge, skills and curriculum current.
7. Seek out and embed industry relevant certifications for CARP students. OSHA 10 is an example of one certification that we plan to offer within our curriculum in the future.
8. CARP will continue to expand our machine operating curriculum in order to teach our students to safely and properly operate and maintain equipment commonly used on job sites. We are also collaborating with other HAWCC programs to offer these expanded educational opportunities to students outside of the CARP program. We will seek community and campus services projects that will benefit our students and our surrounding community.
9. CARP faculty will complete hard hat training in order to certify CARP students to operate construction related machinery such as a skid steer and mini-excavator. These certifications will set our students apart from other CARP programs and industry partners. We will also offer these certifications to other HAWCC ATE program faculty and students.
10. We will continue to seek academic and financial aid support and guidance for our CARP students. CARP faculty feel this will lead to a higher rate of completed degrees. We believe the AAS should be the encouraged goal for our students and that they should have consistent access to counseling by the program and support faculty.

## 5. Resource Implications

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

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☐ 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:**

✓ **Justification:**

✓ **Priority Criteria** (must meet at least one of the following):

2023 Hawai'i Community College ARPD  
Program: Carpentry -CARP

1. Ensure compliance with mandates and requirements such as laws and regulations, executive orders, board mandates, agreements and contracts and accreditation requirements.
2. Address and/or mitigate issues of liability, including ensuring the health, safety and security of our Kauhale.
3. Expand our commitment to serving all segments of our Hawaii Island community through Pāalamanui and satellite centers
4. Address aging infrastructure.
5. Continue efforts to promote integrated student support in closing educational gaps.
6. Leverage resources, investments with returns, or scaling opportunities
7. Promote professional development.

<b>CATEGORY</b>	<b>Category-Specific Information Needed</b>			
<b>Equipment</b>	Estimated Date Needed	Quantity / Number of Units; Cost per Unit	Total Cost (with S&H, tax)	On Inventory List (Y/N); Decal #, Reason replacing
<b>Facilities Modification</b>	Estimated Date Needed	Total Cost	Monthly/Yearly Recurring Costs	Utilities Required
<b>Personnel Resource</b>	Estimated Date Needed	FTE; Position Type; Position Title	Estimated Salary	Was an Existing Position Abolished? (Y/N); Position #