

# 2024 Annual Report of Program Data

## Automotive Technology Program



### 1. Program or Unit Mission

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The Automotive Technology (AMT) program at Kaua'i CC provides open access, post-secondary education to qualified students. Students and technicians of the auto repair industry develop and massage their minds to think critically as a necessity of the diagnosis, repair, and maintenance of today's hi-tech vehicles. The Automotive Technology program is a competency-based program designed following standards specified by the Automotive Service Excellence (ASE) Education Foundation. The competencies the student is expected to achieve in the program are based on the task described by the ASE Education Foundation. The goals of the program are to prepare students with the skills and competencies necessary for a successful career as an automotive technician, to instill in the student the work habits and attitude necessary to work in a highly competitive field, and to provide the student with the basic skills necessary to become a lifelong learner in order to keep abreast of the latest technological changes in the automobile.

#### College Mission Alignment

Kauai Community College's mission is a *kahua that inspires, engages, and empowers learners and educators to enrich our community and our world*. The Automotive Technology program is in direct alignment with the campus mission by being engaged with students and providing the necessary skills to become a lifelong learner.

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

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The Automotive Technology program maintains national accreditation standards by following the ASE Education Foundation standards. A total of four hundred forty-three (443) tasks are covered over the two year training period within the nine technical areas of ASE. These technical areas are presented in specific courses within the training program to include: AMT 100 *Intro to Automotive*; AMT 141 *Electrical I* and AMT 241 *Electrical II*; AMT 152 *Brakes*; AMT 154 *Suspension & Steering*; AMT 129 *Engine Repair*; AMT 145 *Manual Drive Train & Axles*; AMT 149 *Automatic Trans/Transaxles*; AMT 144 *Heating and AC*; and AMT 240 *Fuel/Emissions*, AMT 242 *Engine Performance I*, AMT 244 *Engine Performance II*, AMT 260 *Diagnostic and Repair*.

Program Student Learning Outcomes (PSLOs) are based on demonstrated competencies by completing those ASE tasks. **PSLO 1** Demonstrate technical proficiency in entry-level skills for employment in the automotive service field or related areas. **PSLO 2** Apply the theory behind automotive procedures and use critical thinking when performing service, maintenance, diagnostics, and repair of all major automotive systems. **PSLO 3** Comply with personal and environmental safety practices in accordance with applicable safety and environmental regulations. **PSLO 4** Identify and use appropriate tools, testing, and measuring equipment required to accomplish each

task established by the National Automotive Technicians Education Foundation (NATEF). **PSLO 5** Locate references, training information and manufacturer's procedures from industry resources using the appropriate technology and perform tasks in accordance with their research. **PSLO 6** Perform all diagnostic and repair tasks in accordance with manufacturer's recommended procedures as published. **PSLO 7** Communicate effectively both orally and in writing.

All learning outcomes are assessed annually to maintain national accreditation. Alignment of courses with each PSLO along with the benchmarks are: PSLO 1 AMT 260-End of Program ASE Student Certification Pass Rate at 90%, actual at 95%; PSLO 2 AMT 129-90% Successful Completion of "C" or better, actual at 85%; PSLO 3 AMT 100-90% Successful Completion of "C" or better with 100% Compliance, actual at 100%; PSLO 4 AMT 129-90% Technical Skills attained, actual at 100%; PSLO 5 AMT 141-90% Technical Skills attained, actual at 100%; PSLO 6 AMT 244-90% Technical Skills attained, actual at 100%; PSLO 7 AMT 260-90% Successful Completion of "C" or higher, actual at 100%.

In Closing the Loop, the program will evaluate areas that have dipped slightly below the benchmark and implement study groups to improve learning outcomes.

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

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Automotive Technology ARPD link:

<https://uhcc.hawaii.edu/varpd/index.php?y=2024&c=KAU&t=CTE&p=3059>

#### **Demand**

Program Demand remains strong with relatively consistent data for New and Replacement positions for the County with an increase from 136 to 140 over the past year. Number of Majors has increased from 33 to 35 this past year as the program continues to be in high demand with new student enrollment being filled several months before the start of each semester. The high demand for our graduates is ongoing as the program cannot keep up with the demand of industry needs for vacancies. 100% of our graduates are hired and at least 50% of the 2<sup>nd</sup> year class is currently employed in the industry. The number of majors in the program remains constant at 35 and is the highest amongst the Trades programs with SSH Program Majors in All Program Classes being the highest amongst all CTE programs at 876.

#### **Efficiency**

Efficiency indicators also remain strong as it displayed an increase in Fill rate from 79.9% to 94% along with a significant drop in Low enrolled classes from 12 in 2021-2 to 3 in 2023-24.

#### **Effectiveness**

Effectiveness indicators displayed a slight decrease in Successful Completion of C or higher from 94% to 86% over the year; however a large increase with Persistence Fall to Spring from 77% to 91% occurred. Continuing students that earned a grade less than C were allowed extra opportunities to make up their grades in subsequent courses to earn the C grade for the previous year. The number of Degrees and Certificates increased from 43 in 2022-23 to 49 in 2023-24.

#### **Perkins Core Indicators**

- 1P1 – Postsecondary Placement Goal 35, Actual surpassed at 88
- 2P1 – Earned Recognized Credential Goal 35, Actual surpassed at 83
- 3P1 – Nontraditional Program Concentration Goal 12, barely missed at 10

Meeting the Nontraditional Program Concentration goal continually is a challenge for the majority of the Trades programs, however, ongoing outreach and recruitment efforts are being made utilizing student ambassadors and role models as well as marketing efforts to promote this career field.

Overall the program remains Healthy and sustains its national certification through ASE Education Foundation. Maintaining and following national standards ensures students acquire essential training to be successful in the automotive industry. The Trades Career Track Coordinator has also played a vital role in promoting the program at intermediate and high school events, and working with industry partners to introduce internship opportunities. Various program strategies to grow the program and bring awareness to the community over the years has helped our program increase in numbers with enrollment, job placements, and most notably with nontraditional participation.

#### 4. Action Plan

Action Plan	Anticipated Outcome	Actual Outcome
<b>Maintain ASE Education Foundation standards.</b>	ASE Education Foundation standards maintained annually.	Program accreditation reaffirmed in 2023. Advisory Board meetings are held twice a year to ensure the program remains compliant as evidenced by meeting minutes.
<ul style="list-style-type: none"> <li>• <b>Prepare for ASE Mid-Term Compliance Review</b></li> </ul>	Document and track student graduates; maintain instruction, facilities, and equipment at industry standards.	A Career Track Coordinator supports the program by tracking student graduates and assists with job placements. The Advisory Board members evaluate the program on instruction; facilities; and equipment. Feedback and recommendations are made on industry trends and what students need to be trained on along with specialty equipment that should be purchased. Procurement processes are in place to purchase essential tools and equipment to maintain industry standards and remain in compliance.

<ul style="list-style-type: none"> <li>● <b>Acquire industry training</b></li> </ul>	Maintain a minimum of 20 hours of industry training for all instructors annually.	Annual technical training received along with the latest industry trends are implemented into the appropriate course curriculum.
<ul style="list-style-type: none"> <li>● <b>Maintain effectiveness of training in a healthy learning environment to meet ASE accreditation standards</b></li> </ul>		
	Identify a student lounge area to break for breakfast, lunch, and dinner outside and separate from the shop.	
	Upgrade water fountains.	

These action plans are directed to maintain the program national accreditation with the ASE Education Foundation. In maintaining the national standards and to continue to be effective, the program adheres to the Advisory Board recommendations along with the recommendations provided by the Evaluation Team Leader (ETL) during the program re-accreditation process. Curriculum updates are in alignment with ASE tasks, updated specialty tools and equipment are in the procurement process, and student apprenticeship and job placement opportunities continue to be promoted.

**Student Lounge Area:** In order to improve the learning environment for students as recommended by the ETL, a designated area should be identified that is separate from the classroom and lab area. Students attend their automotive classes Monday through Friday from 9:00 a.m. to 8:50 p.m.. The campus cafeteria is not fully operational and students don't have access to the student lounge during night classes. The program will designate Auto Body classroom 113 to serve as a healthy learning support environment and multipurpose lounge area for students.

**Water Fountains:** Current fountains in the automotive facilities are aged and leaking. Promoting health and wellness, while also fostering sustainability (less plastic bottle waste), the program will advocate for replacing these aged water fountains with filtered fountains from which students can fill water flasks.

## 5. Resource Implications

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- Repurpose Auto Body classroom 113 to a multipurpose lounge
- Replace 3 – water fountains at an estimated cost of \$1500 each

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