Required terms of enrollment verified by Kathlen Lee in an email on 4/13/2016. New concentration code: HPMR

IRAO OFFICE USE ONLY							
Received	4/5/2016						
In Banner							
MTVCOMP/Codeset							
Master Curriculum							
CIP Code	47.0614						
Program Code	CO-AMT-HPMR						
Program Description	CO-AMT-HEV Preve						

University of Hawai'i
Code Request Form for Academic Programs for
NEW OR MODIFY
PROGRAM CODE

Reset Form

Program Description	O-AMT-HEV Preve	nt.Maint.&Rep.					
✓ New Pro	gram Code	Modify Program Code Date: 2/4/2016					
-	TACT INFORMATION						
	ılen Lee	Campus Kauai CC					
Title Educ	cational Specialist	Email kathlen@hawaii.edu					
Office/Dept Acad	demic Affairs	Phone 808-245-8204					
· —	CODE TO CREATE						
Institution KAU	- Kauai CC	Campus KAU - Kauai CC					
Level UG -	Undergraduate	Effective Term Fall 2016					
	Code (Max. Characters)	Description Check if requesting new code:					
College	(2) <u>IN</u>	Instructional See Banner form STVCOLL					
Department	(4) TR	Trade Technology See Banner form STVDEPT					
Degree/Certificate	(6) CO	Certificate of Competence See Banner form STVDEGC					
Major	(4) AMT	Automotive Technology See Banner form STVMAJR					
Concentration	(4) HPMR	HEV Preventive Maint. & Repair See Banner form STVMAJR					
Minor	(4)	See Banner form STVMAJR					
If a similar major/concentration code exists in Banner, please list the code:							
Justification to warrant a new major/concentration code similar to an existing major/concentration code:							
Is this major/conce	ntration code being us	ed the same way at the other UH campuses? Yes V No					
		cants to select as their planned course of study Yes No					
and the second of the second o	And the second of the second of the second of	select the code as their only program of study.					
RULES PERTAIN	ING TO FINANCIA	AID AND 150% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION					
Is 50% or greater o Campus?	f the classes in this pro	gram offered at a location other than the Home Yes 🕡 No					
Is this program/ma	jor/certificate financia	l aid eligible? Yes No					
program)?	e qualify as a Gainful E <u>//GainfulEmploymentInfo/inde</u> :	mployment Program (Title IV-eligible certificate Yes No					
Program Length In academic years; decime any online and/or written j		f the program should match what is published by the campus in 1 year					
Special Program De See Special Program Desi Program Code Request we	gnations Code Definitions on I	A B V N P T U					
Required Terms of	Enrollment:	all Spring Summer Extended					

University of Hawaiʻi Code Request Form for Academic Programs

NEW OR MODIFY PROGRAM CODE

ADDITIONAL COMMENTS

Requesting to add a new certificate of	of competence track to the Aut	omotive Technology program.
ATTACHMENTS		
BOR Approved: Associate, Bachelor and Gr BOR Meeting Minutes & Supporting Do Chancellor Approved: Certificates related t	ocuments Cuo Cuo authorized BOR program & Associ	arriculum ate in Technical Studies (ATS) Degree
✓ Memo from Chancellor to notify VPAA		ırriculum
For new certificates approved by the Char Automotive Technology	ncellor, the related BOR authorized a	academic program is:
VERIFICATIONS		
By signing below, I verify that I have review	wed and confirm the above informa	ition that is pertinent to my position.
Registrar:		
Kailana Soto	Kailana a fita	ماسالاه
Print Name	Signature	Date
Financial Aid Officer:		
Jeff Anderson	July Un	2/1/4
Print Name	Signature	Date
For Community Colleges, verification of co	nsultation with OVPCC Academic Aj	ffairs:
Suzette Robinson	Ang Ribur	3/17/16
Print Name	Signature	Date



March 3, 2016

MEMORANDUM

TO:

Risa E. Dickson

Nice President for Academic Affairs

VIA:

James R. Dire

Vice Chancellor for Academic Affairs

Helm O. By

FROM:

Helen A. Cox

Chancellor

SUBJECT:

Curriculum Approval

I have approved the following on 1/4/2016 effective Fall 2016.

New

Automotive Technology:

Certificate of Competence (C.O.) - HEV Diagnostic and Repair

Certificate of Competence (C.O.) - HEV Preventive Maintenance and Repair

Certificate of Achievement (C.A.) – Driveability Technician

Certificate of Achievement (C.A.) - Heavy Line Technician

Certificate of Achievement (C.A.) - Automotive Green Technology

Fitness Professional:

Academic Subject Certificate (A.S.C.) - Fitness Professional

Geographic Information Systems:

Certificate of Competence (C.O.) – Geographic Information Systems

Certificate of Competence (C.O.) - Advanced Geographic Information Systems

Natural Science (Associate in Science):

Concentration - Pre-Engineering*

*This program is effective Spring 2016.

Memorandum to Vice President for Academic Affairs Risa E. Dickson March 3, 2016 Page 2

Program certificate/title change

Automotive Technology:

Certificate of Achievement (C.A.) – Electronics/Computer Control Specialist (previously Certificate of Competence)

Certificate of Achievement (C.A.) – Master Automobile Service Technology (previously Automotive Technology)

Removal of certificate/program

Natural Science (Associate in Science): Concentration – Plant Biology and Tropical Agriculture

kl

c Division Chairs
Tammie Napoleon
Gordon Talbo
Brian Yamamoto

Kaua'i Community College University of Hawai'i Program Action Request

VCAA Office Use Only Effective Fall Date Approved	_2016
Replaces	

1. Type of Program Action:	
----------------------------	--

Semester 1											_								
AMT 20	PRESENT	Drive Train Specialist CO	Engine Specialist CO	Undercar Specialist CO	Electronics/Computer Control Specialist CO	AMTCA	AMT AAS Degree	PROPOSED	Drive Train Specialist CO	Engine Specialist CO	Undercar Specialist CO	HEV Diagnostic and Repair CO	HEV Preventive	Automotive Green Technology CA	Electronics/Computer Control Technician CA	Heavy Line Technician CA	Driveability Technician CA	Master Automobile Service Technology CA	AMT AAS Degree
AMT 20	Semester 1	co	co	CO	co	CA	AAS	Semester 1											
AMT 40E									2	2	2					2		2	2
AMT 53					4				_	4		4	4	4	4		4		
AMT 55		 			<u> </u>					Ė		·				3			3
Natural Environment: PHYS 101						_					_					4			
Thinking, Reasoning/ Mathematics: MATH 100	Natural Environment:							Natural Environment:											3
AMT 30 6 6 6 6 AMT 30 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Thinking, Reasoning/						3	Thinking, Reasoning/Mathematics:											3
AMT 40G AMT 40G AMT 46	Semester 2							Semester 2											
AMT 46	AMT 30		6			6	6	AMT 30		6			6	6		9	6	6	6
Semester 3 3 3 3 3 3 3 3 3 3	AMT 40G			1	3	3	3	AMT 40G							3		3	3	3
Semester 3 Semester 4 Semester 6 Semester 7 Semester 8 Semester 9 Sem	AMT 46	4				4	4	AMT 46	4							4		4	4
AMT 40B AMT 40D AMT 41 AMT 50 AMT 50 AMT 171 Cultural Environment: Core Options Semester 4 AMT 40H AMT 172 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ETRO 18				3		3	ETRO 18				3	3	3	3				3
AMT 40D AMT 41 AMT 50 AMT 50 AMT 50 AMT 171 Cultural Environment: Core Options Social Environment: Core Options Semester 4 AMT 40H AMT 43 AMT 43 AMT 43 AMT 40H AMT 43 AMT 40H AMT 43 AMT 60 AMT 473 AMT 60 AMT 171 Semester AMT 171 Semester AMT 43 AMT 60 AMT 173 AMT 173 AMT 173 Communication: Core Options 3	Semester 3																		
AMT 41 AMT 50 AMT 50 AMT 50 AMT 171 Cultural Environment: Core Options Social Environment: Core Options Somester 4 AMT 43 AMT 43 AMT 43 AMT 60 AMT 473 AMT 60 AMT 173 Communication: Core Options AMT 173 AMT 173 AMT 33 AMT 173 AMT 173 AMT 173 AMT 173 AMT 33 AMT 173 AMT 173 AMT 33 AMT 34 AMT 35 AMT 173 AMT 35 AMT 173 AMT 37 AMT					3	3	3								3		3	3	თ
AMT 50 4 4 AMT 50 Cultural Environment: Core Options 3 Cultural Environment: Core Options 3 Core Options 3 Social Environment: Core Options Semester 4 AMT 40H AMT 43 AMT 43 AMT 60 AMT 60 AMT 172 AMT 173 Communication: Core Options 3 Communication: Core Options 3 Communication: Core Options 3 Social Environment: Core Options 3 Communication: Core Options 3 Communication: Core Options 3 Social Environment: Core Options 3 Social Environment: Core Options 3 Communication: Core Options 3 Social Environment: Cor	AMT 40D				3	3	3	AMT 40D							3		3	3	3
AMT 171 3 3 3 3 3 3 3 3 3 3 3					2	2	2								2		2	2	2
Cultural Environment: Core Options 3 Cultural Environment: Core Options 3 Cultural Environment: Core Options 3 Cultural Environment: Core Options 3 Social Environment: Core Options 3 3 Social Environment: Core Options 3 <td>AMT 50</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td>4</td> <td>AMT 50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td>4</td> <td>4</td>	AMT 50					4	4	AMT 50								4		4	4
Core Options Social Environment: Core Options Social Environment: Core Options Social Environment: Core Options Semester			[3	3	3					
Options 3 Options 3 Semester 4 Semester Semester<							3												3
Semester 4 Semester Semeste							3												3
AMT 40H		$\overline{}$		$\overline{}$															
AMT 43					5	5	5					5		5	5		5	5	5
AMT 60		 		1					-					Ť			Ť		
AMT 172 3 3 3			l —	i e		_											4		
Communication: Core Options 3 Communication: Core Options 3				Ì									3	3					
Options 3 Options 3								AMT 173				3		3					
							3	Communication: Core											3
		10	12	13	23	51	69		10	12	13	18	19	27	27	27	30	51	69

PRESENT OPTIONS:

FRESENT OF HONS.							
GENERAL SKILLS/ED CORE OPTIONS, SPRING 2013							
Category	Cr	Course Options					
Communication (Written and Oral	3	BUS 130, BUS 175; CULN 160; ENG 100, ENG 104 or					
Communication combined)		higher; JOUR 205; LING 102; SP 151, SP 185, SP 231,					
, i		SP 251; any WI course; or any FW designation					
Cultural Environment	3	ANTH 200, ANTH 220; BOT 105; CULN 130; HOST 101;					
		SP 185; any Humanities course; or any DA, DH, or DL					
		designation, including languages					
Social Environment	3	BUS 120; ED 105, ED 131, ED 140, ED 245; HOST 125;					
		HPER 195; MGT 122; PHIL 101; any Social Science					
		course; or any DS designation					

PROPOSED OPTIONS:

GENERAL SKILLS/ED CORE OPTIONS, SPRING 2016						
Category	Cr	Course Options				
Communication (Written and Oral	3	BUS 130, BUS 175; CULN 160; ENG 100, ENG 104 or				
Communication combined)		higher; JOUR 205; LING 102; SP 151, SP 185, SP 231,				
·		SP 251; any WI course; or any FW designation				
Cultural Environment	3	ANTH 200, ANTH 220; BOT 105; CULN 130; HOST 101;				
		SP 185; any Humanities course; or any DA, DH, or DL				
		designation, including languages				
Social Environment	3	BUS 120; ECED 105, ECED 131, ECED 140, ECED 245;				
		HOST 100; HPER 195; MGT 122; PHIL 101; any Social				
		Science course; or any DS designation				
Thinking, Reasoning/Mathematics	3	ACC 124, ACC 201;BUSN 189; ICS 111; MATH 100 or				
		higher; PHIL 110; or any FS designation				

2. Program Type:

Associate in Arts–Concentration Associate in Science (AS) Associate in Science Natural Sciences–Concentration (ASNS)		Associate in Arts–Concentration Associate in Science (AS)		Certificate of Achievement (CA) Certificate of Competence (CO) Academic Subject Certificate (ASC)
--	--	---	--	---

3. Program Title: Automotive Technology

4. Program Description (for catalog):

The Automotive Technology program is a competency-based program designed following standards specified by the National Automotive Education Foundation (NATEF). The competencies the student is expected to achieve in the program are based on the task described by NATEF. A student who successfully completes the program will receive training in all of the eight areas described by NATEF: A-1 Engine Repair; A-2 Automatic Transmission and Transaxle; A-3 Manual Drive Train and Axles; A-4 Suspension and Steering; A-5 Brakes; A-6 Electrical/Electronic Systems; A-7 Heating and Air Conditioning; and A-8 Engine Performance. In order to meet global changes, the automotive industry has gone Green with Hybrid and Electric vehicles. Our program will meet the industry needs by providing training in sustainable energy with Hybrid and Electric Vehicle (HEV) Technology and alternative fuels.

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.

The Automotive Technology program courses are clustered into certificates, each providing a set of marketable workplace skills. The Certificates of Competence (COs) in HEV Preventive Maintenance and Repair and the HEV Diagnostic and Repair lead to a Certificate of Achievement (CA) in Automotive Green Technology. The Drive Train Specialist, Engine Specialist, and Undercar

Specialist lead to the CA in Automotive Technology Heavy Line Technician. In addition, other certificates earned are the Electronics/Computer Controls Technician, Driveability Technician, and Master Automobile Service Technology CAs that lead to the Associate in Applied Science (AAS) degree. This two-year AAS degree program is offered every year.

This program is articulated with other UH Community College Automotive programs. Students should plan to enroll in all the Automotive Technology program courses offered each semester in order to earn the desired certificate or degree in the shortest time possible. Students are strongly encouraged to consult with an academic advisor to help them plan the best path for reaching their academic goals.

The cost of tools and supplies for the program is approximately \$2,500. This cost can vary considerably, depending on where the student chooses to buy tools and supplies.

Program Admission Requirements:

Applicants will be admitted into the Automotive Technology program on a "first applied, first qualified" basis. Students not meeting prerequisites may take non-AMT designated courses required in the program and begin the cycle of automotive (AMT) courses once prerequisites are met. First-semester courses require qualification into ENG 21 or higher, and MATH 100 or higher OR a co-requisite of AMT 20 and MATH 75X. Students must maintain a valid driver's license throughout the course of study.

Graduation Requirements:

A GPA of 2.0 or higher in all AMT courses is needed to meet graduation requirements.

- **5. List Program Student Learning Outcomes** that were approved by the Assessment Committee on 4/30/15.
 - 1. Demonstrate technical proficiency in entry-level skills for employment in the automotive service field or related areas.
 - 2. Apply the theory behind automotive procedures and use critical thinking when performing service, maintenance, diagnostics, and repair of all major automotive systems.
 - 3. Comply with personal and environmental safety practices in accordance with applicable safety and environmental regulations.
 - 4. Identify and use appropriate tools, testing, and measuring equipment required to accomplish each task established by the National Automotive Technology Education Foundation (NATEF).
 - 5. Locate references, training information and manufacturer's procedures from industry resources using the appropriate technology and perform tasks in accordance with their research.
 - Perform all diagnostic and repair tasks in accordance with manufacturer's recommended procedures as published.
 - 7. Communicate effectively both orally and in writing.
- 6. Proposed Date of First Offering: Fall 2016

7.	Is this program offered at another UH campus? Yes No If Yes, specify campus. If No, why is this program offered at KCC:
	Hawai'i CC, Honolulu CC, Leeward CC, and UH Maui College

8. Reason for this Program Action:

The AMT program is updating its General Education (Gen Ed) graduation requirements for the AAS degree to address the ACCJC recommendations with 100 level or higher in all Gen Ed courses. The MATH 100 requirement will be changed to the Thinking/Reasoning Mathematics Core Options to allow students more options to choose with this graduation requirement.

New HEV courses already approved will be included under the AAS program. Packaging all AMT courses into new clusters to create new certificates will directly align with industry job classification and NATEF standards that lead to gainful employment.

- 9. Board of Regents Approval Needed: Yes No
- 10. Indicate the number of semesters required to complete each certificate and degree.

Certificate/Degree	Number of Semesters
CO Drive Train Specialist	2
CO Engine Specialist	2
CO Undercar Specialist	1
CO HEV Diagnostic and Repair	2
CO HEV Preventive Maintenance	2
and Repair	2
CA Automotive Green Technology	2
CA Electronics/Computer Control	4
Technician	
CA Heavy Line Technician	3
CA Driveability Technician	4
CA Master Automobile Service	4
Technology	4
AAS Automotive Technology	4

11. **Program Course Sequencing:** Complete one for each certificate/degree if sequencing is not provided with question #1.

Course Offering FALL Semester (First year) AMT 20 Intro to Automotive 2 cr. AMT 40E Electrical I 4 cr. AMT 53 Brakes 3 cr. AMT 55 Suspension and Steering 4 cr. Thinking Reasoning/MATH 3 cr. PHYS 101 CTE Physics 3 cr. SPRING Semester AMT 30 Engines 6 cr. AMT 40G Electrical II 3 cr. AMT 46 Man. Drivetrain and Axles 4 cr. ETRO 18 General Electronics 3 cr. FALL Semester (Second year) AMT 40B Fuels and Emissions 3 cr. AMT 40D Engine Performance I 3 cr. AMT 41 Ignition Systems 2 cr. AMT 50 Auto Trans and Transaxles 4 cr. AMT 171 HEV I Intro HEV 3 cr. Cultural Environment 3 cr. Social Environment 3 cr. **SPRING Semester** AMT 40H Engine Performance II 5 cr. AMT 43 Heating and AC 4 cr. AMT 60 Diagnostic and Repair 4 cr. AMT 172 HEV II Preventive Maintenance and Repair 3 cr. AMT 173 HEV III Diagnostic and Repair 3 cr.

HEV Preventive Maintenance and Repair CO 19 cr. AMT 30, AMT 40E, AMT171, AMT 172, and ETRO 18

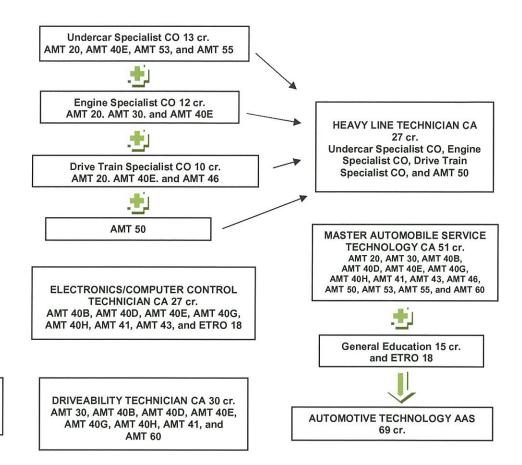


HEV Diagnostic and Repair CO 18 cr. AMT 40E, AMT 40H, AMT 171, AMT 173, and ETRO 18



AUTOMOTIVE GREEN TECHNOLOGY CA 27 cr. HEV Preventive Maintenance and Repair CO

HEV Diagnostic and Repair CO



POTENTIAL DEGREE and CERTIFICATES EARNED

AUTOMOTIVE TECHNOLOGY AAS
MASTER AUTOMOBILE SERVICE TECHNOLOGY CA
DRIVEABILITY TECHNICIAN CA
HEAVY LINE TECHNICIAN CA
ELECTRONICS/COMPUTER CONTROL TECHNICIAN CA
UNDER CAR SPECIALIST CO
ENGINE SPECIALIST CO
DRIVE TRAIN SPECIALIST CO
AUTOMOTIVE GREEN TECHNOLOGY CA
HEV PREVENTIVE MAINTENANCE AND REPAIR CO
HEV DIAGNOSTIC AND REPAIR CO

1-AAS DEGREE 5-CA 5-CO

THIS PAGE INTENTIONALLY LEFT BLANK

PROGRAM ACTION REQUEST APPROVAL

PROGRAM:	Automotive Technology Certificates of Competence, Cert Associate in Applied Science Degree	ificates of Achievement, and
Effective date:	Fall 2016	
PSLOs Approved by:		
	Assessment Committee Chairperson	Date
Proposed by:		
	Originator	Date
Requested by:		
,	Department/Division Chairperson	Date
Approved by:		
	Curriculum Committee Chairperson	Date
	Vice Chancellor for Academic Affairs	Date
	Chancellor	Date