

Advisory Committee Meeting Minutes

PROGRAM COMMITTEE NAME:		Automotive Technology Advisory Committee				
CHAIRPERSON:		Jascn Reed				
MEETING DATE:		11/12/20	MEETING TIME:	1:30pm – 2:30pm	MEETING PLACE:	ZOOM
RECORDER:		Rebecca Archer		PREVIOUS MEETING:		10/10/19

AUTOMOTIVE TECHNOLOGY COMMITTEE MEMBERS

List all members of the committee, then place an X in the box left of name of those present

	NAME	TITLE	EMPLOYER INFO	PHONE	EMAIL
	Jay Barrett	Principal	AACAL	806-326-2805	jay.barrett@amaisd.org
	Karyn Pierce	CTE Director	AISD	806-326-1305	karyn.pierce@amaisd.org
X	Allyson Boatman	(in place of Karyn Pierce)	AISD		
X	Gary Burns	Service Manager	Brown Auto Group	806-467-7507	gary.burns@brownautogrp.com
	Bill Fournier	Manager	Country Auto	503-917-9857	billfournier@countrychevrolet.net
	Rudy Ibarra	Parts and Service Manager	Gene Messer Ford	806-355-7471	ribarra@genemesser.com
X	Roger Cross	Owner	Meineke Car Care	806-236-8823	meinekeamarillo@gmail.com
	Art Perez	Manager	Scotties Transmission	806-358-4040	scottiestransmission@yahoo.com
	Danny Ramirez	Tech	Scotties Transmission	806-358-4040	scottiestransmission@yahoo.com
	Pedro Hernandez	Shop Foreman	Street Toyota	806-674-7357	pedro_hernandez@street-toyota.com
X	Jason Reed	Parts & Service Director	Street Toyota Mazda	806-282-1881	jason_reed@street-toyota.com
	Jeff Young	Shop Foreman	Texas Panhandle Centers	806-570-0401	jyoung1123@hotmail.com
X	Brian Shannon	Service Manager	Tri-State Ford	806-231-8738	brian.shannon@tri-stateford.com
	Tony Young	Owner	Young's Automotive	806-353-4113	aryyoung@yahoo.com

EX-OFFICIO'S PRESENT

X	Rebecca Archer	Automotive Department Secretary	Amarillo College	806-335-4211	rcarcher@actx.edu
X	Linda Munoz	Dean of Technical Education	Amarillo College	806-335-4309	lmunoz@actx.edu
X	David Hall	Associate Dean of Technical Education	Amarillo College	806-335-4309	dhall36@actx.edu
X	Isaac Bernal	Automotive Faculty	Amarillo College	806-335-4209	isaac.bernal@actx.edu
X	Eddie Casias	Auto Collision Faculty	Amarillo College	806-433-7802	ecasias@actx.edu
X	Jeffrey Cramer	Automotive Faculty	Amarillo College	806-335-4374	jcramer@actx.edu
X	Bryan Cresap	Automotive Faculty	Amarillo College	806-353-9369	bryan.cresap@actx.edu
X	Paul Montgomery	Automotive Faculty	Amarillo College	806-335-4383	p.montgomery@actx.edu
X	Juan Garza	Automotive Student	Amarillo College		
X	Juan Lara	Automotive Student	Amarillo College		
X	Al Guardino	Senior Transitional Advisor	Amarillo College	806-335-4205	a0042682@actx.edu
X	Lori Petty	Director of CTL	Amarillo College	806-371-5920	llpetty22@actx.edu

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1. Call to Order
Jason Reed, Chair, called the virtual (recorded) meeting to order at 1:34PM.

2. Welcome and Introductions
Mr. Reed started the rounds of introductions.

3. Advisor Report
None – Claudia Arnold not in attendance.

4. Student Representatives
Juan Garza spoke about being a little hesitant about the program due to being in the industry for a little while before starting classes. But he said he has had a very good experience at Amarillo College. Mr. Garza said that he has learned how to diagnose a vehicle properly and has learned expectations of dealership service settings. He currently works at a dealership. He plans to expand his knowledge a little more before opening up his own shop. Mr. Garza felt that the AC program was one-sided in that faculty taught mainly GM / Chevrolet. He would like to know more about other makes such as Toyota, Ford, and foreign made vehicles.

Juan Lara feels like he has learned much from the Automotive program at Amarillo College, from diagnosing to mounting tires and alignment, and the proper way to use a lift. He has been in the program for one year now and feels confident going to work at a dealership with the knowledge he has gained. He plans to work for Ford. He mirrored Mr. Garza's concern about only learning the GM side of things. Overall, he said AC has exceeded his expectations.

5. Affiliation Reports

Roger Cross with Meineke reported that he feels our students need more hands on with diagnostic tools. Students need to understand not just how to remove and replace items, but how to troubleshoot.

Gary Burns with Brown Auto Group echoed Mr. Cross' request. He said the industry has gone electronic and understanding diagnostic tools is critical. He feels teaching should emphasize electronics and component testing.

Brian Shannon with Tri-State Ford also indicated a need to teach pinpoint testing, with strategies on diagnostics. Their technicians not only need to know how to diagnose, but to have confidence in their diagnosis.

Allyson Boatman with AISD reported on the upcoming ground breaking of the AM Tech high school at Sunset Center.

Jason Reed with Street Toyota agreed with the others saying that the ability to use and understand the diagnostic equipment is indicating is crucial. He feels that something that would help with this is would be for the students to have more current year models for the students to bug and troubleshoot. He said something only 2-3 years old would be more beneficial rather than the older models currently in the shop. Mr. Reed currently has 2 of our students working for him right now and said that they came to him with a lot of knowledge and he feels like they will be very successful.

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David Hall asked Mr. Reed whether Street Toyota has to send our graduates for additional training after hiring them. Jason said that they did send them out for ASE testing for A-6 (electrical) being the most important, this certification translates to or corresponds with a similar Toyota certification. For recalls and warranty work, they get their certifications through Toyota specifically.

Brian Shannon added that Ford does not recognize any outside training certifications. They measure success by keeping "Fixed Right the First Time" at 95% or higher. Anyone can do the repairs regardless of certification as long as the "Fixed Right" rate stays above 95%.

6. VPAA Report

Dr. Clunis was unable to attend.

7. AC Dean of Technical Education Report

Dr. Muñoz told our Industry Partners that she has been here just over a year now and it is her goal to get out visiting them in the near future. The COVID-19 shutdown in spring 2020 hit AC hard. After a short closure and move to online learning, all programs were able to open back up and AC had a high graduation rate in the Spring. We did lose some students in Automotive from both the first and second year cohorts. AC East Campus began face-to-face classes in mid-April and we have not stopped since then. We had a few students who had to take incompletes and faculty are working to complete those.

Dr. Muñoz added that faculty/staff are addressing changes to the Automotive, Diesel and Collision curriculums and that the primary purpose of this meeting is to review and vote on these changes. AC has looked at other Institutions with Automotive Programs to see what AC can do to improve, but the input we get from Industry is really the most important in terms of what we need to make decisions regarding what courses we need to offer. We will also have to take a good look at our Training Aids and find a way to ensure that we have the tools we need to teach the classes Industry wants, ie: newer model cars, more diagnostic equipment.

8. AC Perkins Coordinator Report

Barbara Wahi was unable to attend so Linda explained what Perkins is and how the funding works. She said we were able to purchase two brand new Air Compressors for our shops using Perkins funding. In addition, Perkins has allowed the programs to purchase the Airline Dryers to go with the Compressors to protect the equipment. Facilities will install these once they arrive.

9. AC Center for Teaching and Learning Report

Dr. Petty added that the Center for Teaching and Learning has been collaborating with Perkins to bring in training programs for the CTE faculty. We will be starting with a Program called Learning By Design. This design model will help faculty build courses that are more hands on and based on real-world experience. This design is data driven.

Dr. Petty reported that during the last year we have worked on really streamlining the Automotive Curriculum and looking at the best way to put forth a new program.

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10. Coordinator's Report

- ASE Compliance Review – Dr. Muñoz reported that our ASE Review will happen sometime in Fall of 2021. We do not expect any issues since we are currently in compliance.
- Tool Room Update - Dr. Muñoz mentioned that a donor donated funds to AC Automotive to purchase tools for students in the program. We received competitive bids and for a year have been working to secure these. Considerations for our advisory committee: Should we want purchase several sets of tools/carts to check in and out to the students or should we purchase project specific tools to furnish each individual station?

Mr. Reed said perhaps a combination of both Station Specific tools such as table lifts, and scan tools along with a few extra Toolboxes supplied with general tools. He felt like more shop-shared tools than a tool room. He also made the point that the more tools you have, the harder it will be to inventory and keep the tools from walking off. Brian Shannon also suggested a combination of generalized tools with a few specialty tools. David Hall asked the Committee whether AC should purchase high quality name brand tools over grade tool work. Gary Burns suggested buying Craftsman or something similar. This would make our funds stretch further and the guarantee would be the better than some name brand. He said that if we bought tools through Lowe's, we could get them at a fraction of the cost and AC would minimize the down time waiting for a name brand company to order replacement tools. AC staff could then return/pick up the tools as needed; the tools would already be in stock. Several committee members suggested AC look at the functionality of the individual tools when making the decision.

Industry encouraged us to buy a few higher end tools to expose the students to the range of quality and help students understand the difference when purchasing their own tool. Finally, the consensus was that there was no need for AC to buy only higher end tools. Dr. Muñoz added that the name brand companies did not offer any type of discount or incentive to the school to purchase from any particular company but that there were incentives to students (lower cost tools). Bryan Cresap said that Bill Monroe with Matco used to come out to speak to AC automotive students and faculty, but COVID has put an end to those visits and group presentations. Dr. Muñoz will continue to have conversations on this.

- Budget Update – Dr. Muñoz indicated that the budget was similar to last year's with little in the budget to purchase new training equipment. Due to COVID, we expect there to be a significant dip in all State funded budgets. This will most likely be the case for the next two biennium, maybe even longer. Dr. Muñoz expects the deficit to be larger than 10% of our budget each year.
- Program Data Update – The numbers indicate a significant drop of students completing our programs. Dr. Muñoz stated that she is unsure of what is driving the lower numbers, but it is of concern to her. The lower numbers are driving us to redesign our curriculum. Another goal of the redesign is to better align with the High School programs.

Year	Automotive			Total
	Basic Certificate	Intermediate Certificate	AAS	
2016	72	13	11	96
2017	35	9	9	53
2018	1	17	14	32
2019	0	17	15	32

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Curriculum Redesign –

Automotive Technology – Current		Automotive Technology – Proposed
Basic Automotive Certificate (30 hours)		FALL I
AUMT 1305 – Introduction to Automotive Technology		AUMT 1305 – Introduction to Automotive Technology
AUMT 1307 – Automotive Electrical Systems		AUMT 1307 – Automotive Electrical Systems
AUMT 1319 – Automotive Engine Repair		AUMT 1391 – Special Topics – Precision Measurement and Fabrication
AUMT 1213 – Auto Suspension & Steering Sys Theory		
MCHN 1320 – Precision Tools and Measurement		FALL II
AUMT 1191 – Special Topics – ASE Prep		AUMT 1345 – Automotive Climate Control Systems
(15 Semester Hours)		AUMT 2305 – Automotive Engine Theory (15 Semester Hours)
AUMT 1310 – Automotive Brake Systems		
AUMT 1316 – Auto Suspension and Steering Systems		SPRING I
AUMT 1345 – Automotive Climate Control Systems		AUMT 1310 – Automotive Brake Systems
AUMT 2317 – Automotive Engine Performance Analysis I		AUMT 1316– 3 hour (Combined Suspension Material 1213)
AUMT 2337 – Automotive Electronics (15 Semester Hours)		AUMT 2317 – Automotive Engine Performance Analysis I
		SPRING II
AUMT 2305 – Automotive Engine Theory		AUMT 2337 – Automotive Electronics
AUMT 2313 – Automotive Drive Train and Axles		AUMT – 3 hour Internship (15 Semester Hours)
AUMT 2325 – Automotive Transmission and Transaxle		
AUMT 2328 – Automotive Service		SUMMER
AUMT 2334 – Automotive Engine Performance Analysis II (15 Semester Hours)		ENGL 1301 – Composition I (3 Semester Hours)
Automotive AAS (60 hours)		FALL I
ENGL 1301 – Composition I		AUMT 1319 – Automotive Engine Repair 3 hours of Social and Behavioral Sciences
3 hours of Social and Behavioral Sciences		
3 hours of Mathematics		FALL II
3 hours of Language, Philosophy & Culture or Creative Arts		AUMT 2313 – Automotive Drive Train and Axles 3 hours of Mathematics (12 Semester Hours)
3 hours of Speech (15 Semester Hours)		
		SPRING I
		AUMT 2325 – Automotive Transmission and Transaxle 3 hours of Language, Philosophy & Culture or Creative Arts
		SPRING II
		AUMT 2328 – Automotive Service
		AUMT 2334 – Automotive Engine Performance Analysis II 3 hours of Speech (15 Semester Hours)
		TOTAL 60 HOURS

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- Curriculum Redesign Continued – The Chart shows the current classes on the left and the proposed classes on the right. The suggested changes are as follows:
 - Move AUMT 2305 (Automotive Engine Theory) to the first semester.
 - Move AUMT 1345 (Automotive Climate Control Systems) to the first semester.
 - Combine MCHN 1320 and AUMT 1191 into a AUMT 1391 Special Topics course that includes basic welding/fabrication skills.
 - Combine the content of the two suspension classes (AUMT 1213 & AUMT 1316) and offer as one class in 2nd semester
 - Insert an Internship credit class in the first year
 - Intersperse the General Education Classes among the remaining automotive courses to encourage students to gain an AAS.
 - Offer night and summer classes
 - Offer classes in a flipped classroom model where the student does the bookwork on their own time and online so that their time on campus can afford them more hands-on learning with the instructors.

Isaac Bernal reviewed the proposed curriculum changes based on what AC currently offers. Mr. Bernal noted that AUMT 2337 (Automotive Electronics) would be offered earlier in the course sequence (Spring I) since all other courses build on the knowledge gained in that course. Industry agreed that the knowledge gained in the Electronics classes is essential to understanding the remaining classes.

Brian Cresap noted that in addition to the separate classes, diagnostics and electronics are interwoven into all of the automotive classes because it is so important. Mr. Reed inquired as to what the instructors were teaching currently. For instance, did they have varied equipment that they could “bug” and have the students diagnose. Mr. Cresap explained that AC has limited training equipment and relied on instructor and student projects for work, but that they did focus on diagnosis and electrical knowledge.

Industry asked if AC had dealer specific diagnostic tools (Ford / GM / Toyota / Dodge etc.) to prepare them for employment in the dealerships. Mr. Cresap said AC did not have dealer/company specific tools. AC runs mainly GM because current Automotive instructors have GM logins and access. Dr. Muñoz tasked Mr. Cresap to do more research on Rotunda (Toyota) diagnostic tools to see if we could purchase and have access. Mr. Reed said he would check on the Toyota side of things and get the information back to Mr. Cresap.

Partners were positive about adding the internship put the curriculum. Dr. Muñoz asked the Committee for their thoughts on embedding the General Education classes in among the Automotive Curriculum. Mr. Shannon told the group that New Mexico Jr College is using this model and it seems to be very successful over there.

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- Evening | Summer Program – Dr. Muñoz asked for a conversation regarding moving the classes to a night-time schedule. She explained the idea is to have the student doing the bookwork at home before coming to us on campus so that when they are here the entire time will be a hand-on experience. Mr. Reed felt that having students work on their own for part of the time is more in line with the real world. He explained that the technicians coming to work are getting their hands-on (lab) portion of their experience, while the continuing education they are required to maintain is on their own time. Students expressed concern saying that they need face-to-face classes and they know other students who need to be in the classroom learning.
Lori Petty explained the hybrid, flipped learning model. She said that while the students would be working on the online portion outside of class, the instructors would still be an integral part of that. They will be able to see if the students are logging in and completing work and would be able to help them in areas where they may be struggling. Dr. Muñoz added that AC has Learning Centers and tutors on campus that can also help the students who may be having a hard time navigating the homework. Industry agreed that the hybrid model is a good one Linda requested a vote on 1) the curriculum changes, 2) the new hybrid model of learning and 3) whether or not to move/expand program to evenings. All were in favor for the curriculum changes and felt that the hybrid model would be a lot more successful. Regarding moving to evening programming and expanding to summer offerings, industry partners suggested AC survey students regarding the move to evenings. Dr. Muñoz said that our advisor Claudia Arnold is currently doing that. We will send out the results. The committee was agreeable to this third point if students preferred that.

11. Other Business

There was no further business

12. Adjourn

Jason Reed adjourned the meeting at 3:30 pm.

<i>Rubena Arnold</i>	Date: <i>11/19/21</i>	Next Meeting: TBD
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