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| San Bernardino Valley College |  |  |  |
| Automotive Perkins Advisory Meeting Minutes |  |  |  |
| Thursday 06/25/2020 |  |  |  |
| 1:00pm – 2:00pm |  |  |  |
| SBVC ZOOM  |  |  |  |
| NAME | COMPANY | PHONE | E MAIL  |
|  |  |  |  |
|  |  |  |  |
| Richard Jaramillo | SBVC Instructor |  | rjaramil@sbccd.cc.ca.us |
| Guy Hendricks | SBVC Instructor |  | ghinrich@sbccd.cc.ca.us  |
| Kenny Melancon | SBVC Instructor/Chair |  | bmelancon@valleycollege.edu  |
| Alex Cruz | SBVC Instructor |  | alcruz@valleycollege.edu  |
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|  |  |  |  |
| Rick Radcliffe | Klein Educational Systems |  | rick@kleineducational.com |
| C J Eastwood | Pacific High School  |  | Cj.eastwood@sbcusd.k12.ca.us  |
| Kay Alan | Vice Principal, Pacific High School  |  | Alan.kay@sbcusd.k12.ca.us |
| Natalie Raymundo | Principal, Pacific High School  |  | natalie.raymundo@sbcusd.k12.ca.us |
| Kenneth Martinez | SBCUSD |  | Kenneth.martinez@sbcusd.k12.ca.us |
| Mark Godfrey | President Wayne’s Engine |  | Mark.waynes@sbcgolbal.net |
|  |  |  |  |
| Thomas  | President Napa Auto Colton/Riverside |  | riversidenapa@aol.com  |
| Mark Williams | SBVC Instructor |  |  |
| Larry McLaughlin | Advance Transportation Regional Director |  | Larry.McLaughlin@vvc.edu |
| Eric Harworth | Instructor Pacific High School  |  | eric.harworth@sbcusd.k12.ca.us |
|  |  |  |   |
| Keith Andreasen  |  |  |  |
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1:00p Welcome

**Kenny Melancon**

00:02 Introduction of Advisory board members

**Thomas**

**Alexander Cruz**

**Natalie Raymundo**

 I'm Natalie Raymundo I'm the principal at Pacific High School in San Bernardino. And we have a transportation sector pathway, and We have Several students that working Kenny's program.

**Richard Radcliffe**

Currently working with client educational systems, we sublet curriculum and equipment For a number of CTE programs But in a previous life I taught automotive for 12 years and then Automation

**thomas**

Good afternoon President of Genuine Parts Colton and Riverside Store

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**Larry McLaughlin**

Thanks, Kenny, for inviting me. I'm glad to meet you. The rest of you. I'm a regional director for mass Transportation, logistics, which is our regional role supporting our automotive and other transportation related programs in the region.

**Maer Williams**

Mark Williams from the automotive collision department.

**Kenny Melancon**

**For those. This is your first time coming by in the automotive department, the students**

Perform diagnostics.

Service as components

Test computer controlled automotive electrical systems.

The basic engine, transmission

Brakes and suspensions.

The program is designed to be hands on experience and the entry level.

Similar to the service industry. So saying that I would like to introduce our automotive instructors, which are Richard hello me, you guys. Hendricks and Alex crews are rhetoric. Could you tell us a little bit about yourself?

**Richard Jaramillo**

Yeah, Richard automobile. I teach the automatic transmission in general

Automotive classes at college.

**Guy Hinrichs**

Good afternoon I teach brakes, suspension and engine repair.

**Alex Crews**

 I teach engine performance electrical diagnostic and hybrid vehicle technology.

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**Kenny Melancon**

We're starting a new era here at the college we are moving toward becoming an ASE accredited college. As part of this program to be ASE Accredited, we needed an advisory committee that will be run by the community.

A question was put to the floor to acquire input from the advisory members on how to pursue getting the community involved in running the advisory and helping become ASE Accredited College

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**Thomas** from Napa auto parts likes the idea of becoming ASE certified and will discuss possibility of helping organize the advisory committee run by the community.

**Keith Andreasen from Hyundai Motors** comments that the ASE certification for your school is an absolute must. It is already the future. It's today and the future. So, I would support you in any way I could.

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**Kenny Melancon**

We have a couple of important notes

The curriculum format follows the ASE format to help prepare the students for the ASE test.

On all of our curriculum. We do prepare students for ASE testing. Also the Automotive department has created a

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| Automotive Clean Vehicle Technology Certificate |
|   |
| This certificate is designed to provide students with the fundamentals of alternative fuel and electric vehicle technology as it applies to the automotive industry. The curriculum prepares students for entry-level positions in alternative fuel/hybrid/electric vehicle maintenance, service and repair. Including alternative fuel and electric power technology.  |
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| **REQUIRED COURSES:** | **Units** |
| AUTO 010 | Introduction to Hybrid and Electric Vehicle Technology | 3 |
| AUTO 011 | Electric Vehicle (EV) and Alternative Fuel Vehicle | 3 |
| AUTO 011L | Electric Vehicle (EV) and Alternative Fuel Vehicle - Laboratory | 1 |
| AUTO 064 | Auto/Truck Electrical Systems | 4 |
|   | **or** |
| HMDT 064 | Auto/Truck Electrical Systems | 4 |
| AUTO 065 | Advanced Auto Electrical Systems Diagnosis and Repair | 3 |
| AUTO 065L | Advanced Auto Electrical Systems Diagnosis and Repair | 1 |
|   |
| **Total Units** | **15** |

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**Thomas**

Well, anything to get the students ready for the test is great. I mean, yeah, they have to have that, you know, field experience to. This is needed to take the test as well, but anything that's going to help them prepare for it is a good thing. Thomas also commented that with my customers who have mechanic shops it is a symbol of experience that customers trust. They, the customers coming to a mechanic shop want to know that these guys are certified. It just helps them make the hiring decision easier for them.

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**Kenny Melancon**

Motion was put to floor to continue with quest to become ASE certified program and the alternative fuels certificate at SBVC. All 12 members voted to continue, 0 nay, and 0 sustain

Mark Godfrey from Wayne’s Engine

06:33Kenny, we can’t hire any machinist. I put ads out and we get just guys that know how to use older machines but not newer technology. Wayne’s is spending to much time training on the Automotive CNC machine and not being very productive in the shop getting jobs completed.

We, we were having a heck of a time in this in the engine rebuilding industry and a lot of even the smaller shops. I know you know they might find guys to do cylinder heads and it just doesn't seem to be coming around. If students were trained in this area from the community college, he would hire 5 today. Other machine shops in the area are looking to hire automotive machinist also. With all the shops that Wayne’s deals with probably 20 more would be hires.

Could the college find a way to teach this curriculum needed in the Community for machine shops?

**Thomas Napa Auto Parts** Commented that he delivers to several machine shops in the industry and they all comment on the same concern no one is trained in this area and technology Is advancing so how do we hire experience when there is no one teaching it.

**Alexander Cruz instructor**

Yeah. So back when I got my automotive education in Puerto Rico, they had a racing mechanics program, which included engine blue printing rebuilding, machining courses as part of that program, aside from, you know, understanding the basic concepts,

Engine dynamics electronics suspension etc etc. So, you know, maybe that's something we could look at implementing this type of new curriculum that would include those machining courses in addition to basic automotive

**Kenny Melancon**

**put to the floor a motion to move toward creating a curriculum and purchase of equipment to fill the need of the local community.**

**Richard Jaramillo**. The automotive department has meet with the industrial machine department at SBVC to come up with a strategy on how to combine both departments to fill the need of the community and create this Automotive CNC machinist program/certificate.

Mark Godfrey; Wayne’s Engine

States, he has sent out a invite for the instructors of SBVC to tour his machine shop to see what equipment is needed to be upgraded in our lab area and he will work close with our instructors to create a curriculum that will be recognized within the industry.

A machine class that will benefit both programs and will probably have wings out quite a bit, to get them the people that they need with the skills that they need.

**Richard Jaramillo**

Having a company like Wayne's support the Automotive program is a great partnership and it'll help them out. So, we've been talking with Miguel in our industrial machine department to get his assistance in which machine to upgrade first.

**Kenny Melancon**

Just to clarify a little bit about Richard, Alex’s and Mark's point, I believe, from what I understand, that Miguel's industrial machine department is an excellent focus on teaching students what Mark of Wayne’s Engine is looking in a student to employ him/her within the industry.

It is also noted that Guy Hendricks, instructor in the Automotive Department does a very good job of teaching assembly of engines. By adding Automotive machinist to the certificate will strengthen the opportunity for students to get a job, but, the old outdated equipment must be upgraded to newer technology. The knowledge and training we have for assembling engines on the performance part is that's a different animal completely, but that'd be something we definitely like to look into. But I think the need of the industry right now shows it’s going to be with the new computerized CNC machines. I'd like to get a little more input from Mark and maybe we get together and visit his facility so we can understand the need for machine operator automotive industry.

**Mark Godfrey also noted:**

Other colleges in the area have attempted to fill this need but purchased the incorrect equipment to fill the training needed to shop within the industry. A college visit with all department and Wayne’s Machine shop will ensure the correct equipment is purchased to move forward with supporting the students, community and industry.

**Natalie Raymundo; principle of Pacific High School**

Has brought to our attention that Indian Springs High School has a full lab there with it was industry standard equipment

**Kenny Melancon**

Thanked Natalie for bringing this to our attention, it may be something we can also look into and maybe partner with them in the future in the Automotive department.

**Miguel Ortiz**

Introduce yourself to us. I teach machine technology. I can you tell us a little bit about the machines in most of the schools are of industrial type equipment not Automotive equipment. SBVC is focused on the Aerospace machinist and would welcome the challenge to fill the Automotive industry needs. The machine trades department would expand into a needed area of the Automotive industry.

**Miguel Ortiz**

For sure we we've been in conversation about this and I actually have quotes

**Guy Hinrichs**

I think it sounds like a good idea I agree that it was going to the CNC style. When I was doing that type of work, I was all turned the handles and watch the micrometers, so it's much more automated today and I agree with the path that you want to take on it.

**Kenny Melancon**

18:38Okay. All right. So, um, we'll continue this conversation later on. Is there anything else to anybody would like to bring to the floor?

**Mark Godfrey**

High school level. I mean, it's great to see that they still have it I the high school. Riverside has done away with all the automotive shop and I mean we were failing the kids. I think it's at least taught them the basics, you know,

**Kenny Melancon**

Thomas, are you on here.

**Thomas Napa Auto parts**

Has brought to our attention Yeah, the new Lincoln continuation school that's where they just built a ground up shop last year on 14th Street. But they only work on cars no auto machine trades

**Keith Andreasen**

Very good for that.

Hey Kenny. What is the objective of the program? What are, what is the by-product of the program.

Mr. Anderson’s input is about Power train diagnostics. Electrical electronics and ECU communications c.a.n. this be added to what our list of what we're, we're looking at adding to the Automotive curriculum.

**Kenny Melancon**

Absolutely Keith. Our automotive department has expanded the teachings to cover the newer hybrid technology and power train components. We actually teach that already, and Alex can you give some input on that.

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**Alexander Cruz**

So, I do the Electrical diagnostics, we are looking to expand our ability to train the students on the newer equipment we just purchased from Snap-on.

In terms of teaching them AC and DC we actually have created a new zero emission certificate which covers EV vehicles and charging systems. And also, hydrogen fuel cell powered vehicle. Aside from that, yeah, I do definitely think that electronics is the is the way to go which includes can communication.

**Kenny Melancon**

**Update** We do have a full course on the CAN communication through our electronics program at the college, so by using other department expertise we do cover the latest technology needed to work on these vehicle and supply the necessary training for students to better themselves within the industry when they get employed.

**Richard Jaramillo**

Comments on the type of training SBVC offers in the automotive department which covered diagnostic tools procedures and resolution of problems using electronic volt ohm meters, and engine rebuilding is an addition to what we are doing in the automotive department.

**Mark Godfrey Wayne’s Engine**

The one industry that is lacking is the Automotive MACHINEST.

The Automotive equipment the college has to perform training on is outdated and would not benefit the students looking for employment. Student hired as employee’s need to know how to operate the newer CNC Automotive machinist equipment used to bore engines and there is a shortage of Automotive machinist in the industry.

**Natalie Raymundo**

**Commented on the importance of the ASE certified facility teaching toward the goal of students**

**Richard Jaramillo**

The department is looking to create 600 class or for credit lab so students can make up the time where labs were online. Also, with the pandemic the department is planning to separate lecture and lab so the students can do this at a later date. So, if the classes are split, they now have an opportunity to do complete the hands-on portion to strengthen their skills.

**Larry McLaughlin**

Okay, just, you know, I was reflecting on the discussion. Pertaining to CNC. Training and I think students are going to see when they graduate, the knowledge received, is very demanding out in the industry and there are more and more tools that are Computer controlled and I think any type of information technology related skills, on how to set up and operate automated machine will pay off. This is a good practice our programs.

**Kenny Melancon**

Thank you for that, Larry, I'm glad I'm glad you came today because we want to do the hear the conversations about the newer technology for the Automotive industrial sector.

**Larry McLaughlin**

And if I could also Just mentioned to the advisory committee members that San Bernardino Valley has been a real leader and moving in a very progressive direction with respect to the technologies in the automotive industry and what I mean by that is that they have really embraced the idea of teaching students advanced technologies.

**Kenny Melancon**

 We pretty much covered everything, is there's any other conversations, the floor is open. We can talk about any subject you'd like us to bring up.

**Mark Godfrey Wayne’s Engine**

Kenny. I just think it's great that you got people from the industry all together and you know several different avenues of the industry that don't overlap and have completely different jobs. And it's good that you get the Advisory Committee together to help your curriculum. It’s important to know SBVC were teaching something that needed within the community and industry instead of something that did not benefit the students. For the Advisory part of it. I think it's really important to get people from the industry and the community to help the college

Kenny Melancon

2:00pm Meeting adjourned