

EV SECTORAL PARTNERSHIP MEETING NOTES
RALEIGH, NC (WAKE TECH HENDRICK CENTER/ VIRTUAL)
5/22/24

- EV course this summer
 - Developed in response to feedback from prior meetings
 - EV course this summer is a pilot, so the program will grow and change
 - Ideally the course material will prepare someone from the [SAE](#) test
 - The class is preparing students to work on electrical charging stations, not manufacturing
 - One has to have a certain background for EVSE class
 - In Community College (CC) catalogue
 - Currently 100 hours in order to get tier 1a funding
 - We were able to buy some equipment for Wake Tech
 - Various charging stations from different manufacturers have been acquired for hands-on training, ensuring students are exposed to a range of equipment
 - Hybrid class
 - Class starts in June (M, Tu, Th virtual schedule), July 12 – 18 in-person @ Wake Tech, final 2 weeks back to virtual schedule
 - Class will never be fully online because of nature of material
 - May change the balance between in-person and virtual for a future course
 - Part of deciding to expand the in-person part depends on how successful students are with [SAE](#) certification exam
 - Having hybrid set up helps with instructors who are nonlocal
 - Some students from outside of the Triangle
 - Training will be split between the South Campus (electrical labs) and the North Campus (automotive and battery labs) of Wake Tech, utilizing existing lab facilities.
 - Adding charging stations into existing labs
 - There is a waitlist of students who are interested in taking the EV course
 - It would be enough to fill a second section
 - Up in the air whether students will take exam then field work or vice versa

- It could get more expensive if the course is longer
 - If we need a lot more equipment, that could raise the cost
 - Replication and expansion
 - Maybe do some training for faculty to prepare the staff at community colleges, especially more rural CCs
 - Working on getting more donated for future locations
- Clean Energy Fundamentals Course
 - Central Piedmont CC and Cleveland CC are taking lead in developing it
 - Hopefully Jon Fleisher will pilot it in the fall this year
 - Introduction to different pathways; Helps students know what they are interested in
 - Basic electrical wiring concepts, maybe some Lean manufacturing, lithium ion battery module, geothermal, solar, wind, touching on EV and automotive and more
 - Will likely require certain reading and math levels
 - Could serve as a good high school / pre-apprenticeship course
 - This course will be in the Community College library
- Discussion around charging stations
 - *See recording of meeting for more information
 - Electrical upgrades before installing charger stations?
 - Talking to your utility provider is important when adding level 2 charges to your facility
- Pathways
 - Deb: We need to prepare students and employees for the jobs of today & tomorrow and ambiguity with that. To the extent that there are core skills that can be trained for now. Helpful to draw people in. Once you get in the clean energy space, it is difficult to leave.
 - Make sure that transferable skills are clearly delineated
 - Caroline Sullivan– we'll need two maps, one on education side from intro to degree, and employer side how to get from entry level and up, and what education level matches with those job descriptions.
 - Matt – also connection with pathways and CC curriculum, how to go from non-degree programs to degree programs
 - Kate Bashford is currently mapping out the full supply chain. Caroline can work with her to make it a visual model for posting on site once it's ready for public

- Jesse Duran – keep in mind to train people on computer programming as well, there’s a solid foundational training course for people interested in CE, want to future proof this training.
 - Managing charging stations through a computer
- Jeanne Turner – Two schools (Brunswick and Union counties) in NC offering a program under an existing organization
 - There’s a large cost associated with it right now, but is there funding that can be allocated to it to make it affordable for a larger group?
 - Could we help programs in buying materials?
 - Jeanne to send info to Caroline, so she can see about making her own
- Lots of barriers to entry to this program being on K-12 campuses
 - Instead, one could let state creates pathways under [College and Career Promise](#) (CCP), including continuing education
 - CCP is like high school and college dual enrollment
- Competency based education is big at the NC Community College System office
 - Micro-credential and digital badging
- Stephen Gerhardt has used the Southern Regional Education Board’s materials, and he us done a local pathway.
 - The NC Department of Public Instruction calls it a GPA plus, that means an honors class
 - He has a clean energy education I and II, and he has combined it with some other classes
 - Southern Regional Education Board allowed Stephen Gerhardt to write his own modules, they presold it to Charlotte Mecklenburg Schools
 - He has a pathway that he can share with the team. He has completed outlines. Not due until next year
 - He would love for it to be a state pathway. Easier to create a local pathway though. For local pathways, high schools can cater to their own needs
- Communications and Outreach
 - Justina – first year doing a summer program for middle school and high school students giving them a week in-person to experience automotive and the different areas of it which they could work in
 - Matt Salinsky - good jobs in every sector of CE, need to reach out to K-12, if you don’t get young girls in STEM by 4th grade you lose them.

- **Reach out to caroline.sullivan@nc.gov, if you would like to be a part of this**
- ***See recording of meeting for more information around issues with the grid and electric vehicles/chargers**
- **Software is an important part of this puzzle?**