Central New Mexico Community College
School of Skilled Trades & Arts

DETC Advisory Committee Minutes, Fall 2023

Date: October 6, 2023 **Number of Attendees:** 20

Called to order: 12:00 pm **Adjourned:** 1:10 pm

Chairperson: Eric Worthen **Recorder:** Jennifer Woods

Location: CNM Advanced Technology Center and Zoom

Members present from industry: **Marina Avila,** Travel Centers of America; **John Bronisz**, Wagner Equipment; **David Edwards,** SMPC Architects; **Dave Gerken,** Snap-On Tools; **Stefan Johnson,** SMPC Architects; **Trev Jones,** 4 Rivers Equipment; **Angelo Padilla**, Inland Group; **Brent Papenfuse,** TORC Robotics; **Bobby Stewart,** Equipment Share; **Tressa Woolf,** Equipment Share

Members present from CNM: **Melanie Archibeque,** PPD; **Jennie Davis,** PPD; **Sharon Gordon Moffett**, Interim Dean; **Erin Johnson Kruft,** WCS; **Marvin Martinez,** PPD; **Mikael Ortega,** Instructor; **David Ortiz,** Lab Manager; **Roderigo Padilla,** Interim Assoc. Dean; **Jennifer Woods,** Academic Tech Assistant; **Eric Worthen,** Instructor

Next scheduled meeting: To be decided for spring 2024

I. **Welcome/Introductions:** Eric started the meeting and everyone introduced themselves.

II. **Minutes:** Minutes from the spring 2023 meeting approved as is.

III. **Reports:**

1. **Fall Enrollment and Graduation Stats:** Eric said that we have a new cohort this fall, and classes are full at 16 students. Enrollment numbers are going back up. The School of Skilled Trades and Arts has increased enrollment by about 9%. The average success rate for DETC students is 89%. There were 13 graduates with the certificate and two with a degree. The entire college has over 19,000 students.

   Mikael's evening cohort will be graduating in December. There will be a new cohort starting in the spring term.

2. **College Updates:** Sharon said that the college is in the process of hiring a VP of Education and Learning. After that person has been hired, we will be searching for a permanent Dean and two Associate Deans for this school.

   Two weeks ago, our president Tracey Hartzler testified in Washington DC on clean energy. She stressed the need for a workforce pipeline in NM and across the country for clean energy.

   On September 3, our TCW building flooded, and the management team worked quickly to make sure students did not experience a break in their lab work. The building should be fully functional in about 4 weeks.

   We are finalizing our new Strategic Plan for 2024-2026.

   We are expanding our relationship with Rio Rancho public schools, in order to expand trades education. There will be a shared use facility that will serve RR school students and CNM students. Welding, Carpentry, Electrical, HVAC/PLMB, MECH, Digital Media, and Automotive technology will be taught there. Marvin M. mentioned that there is a constant challenge, since the cost of construction is always going up. He mentioned the Bond issue in the November election, and asked the group to please consider voting for this bond, which will help with the cost of construction.

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The new trades facilities building on CNM Main Campus will officially open in 2025.

We are still looking for qualified faculty in all areas. We will reach out to our industry members to see if they have employees who could teach in a part-time capacity.

IV. Future Programming – AUTC/EV and Diesel Facility in Rio Rancho: Jennie Davis gave a Powerpoint presentation explaining what the options are for programming the new trades facility in Rio Rancho. (Slideshow is attached to these minutes) We are looking at different scenarios. The larger the square footage of the building, the more expensive it will be to construct. She asked for input from the industry members. The question is, should CNM keep the DETC-AUTC/EV programs together, or split them up between campuses, and what would that look like? (Melanie mentioned that CNM will be asking for additional funds for building this project, and industry advisory support for that request would be greatly appreciated.) Jennie asked the group if there is a need for students to receive training on an overhead hoist.

John Bronisz said that a crane would be good. He thinks AUTC and DETC should be kept together in the same location. He also said that we should consider decent, secure storage space.

Dave Gerken with Snap- On mentioned that transportation classes should be kept in one location if possible. Snap-On also employs facility designers, who can help sort out the design needs of our programs. Snap-On has assisted a number of schools around the country. One thing to consider is that there might not be a need to have a cabinet contractor, when it is cheaper to use pre-fab cabinetry. El Paso Community College has a new transportation facility that is worth touring. The parts/tool room is set up so there is one window facing the automotive lab and another window faces the diesel lab with very large openings. According to Dave, there are good things and also mistakes that were made in the design of this facility, but it is still worth examining.

Brent Papenfuse works out of Virginia Tech. He works with the autonomous side of repairs. He would like to build a partnership with CNM for hiring techs from our program. Eric asked how we prepare a new facility for the future. This includes electrification and autonomy. Brent said that the incorporation of a Mechatronics type program is desirable. The way a new facility is designed now, will be fine for the future. We could consider a Mechatronics autonomous certification in the future. Brent is available to help with questions. papenfuse@torc.ai

Bobby Stewart agreed that an overhead crane would be needed. He said he deals a lot with hydraulics and electrical. After- treatment is important too. He has an engine at his shop that he is willing to donate to our program.

V. Workforce and Community Success: Erin discussed the WCS. The WCS has dedicated infrastructure and staffing to support industry. She can set up information sessions, help with hiring and recruitment, create internships, apprenticeships, job shadowing, service learning, and work-based learning. She asked the members to please fill out the member feedback survey (links below). Learning outcomes for the DETC program are attached to these minutes.

VI. Old Business: Diesel Internships – Eric said we have a partnership with Peterbilt and Rush Truck Centers. We are also trying to establish what an apprenticeship would look like. Our evening classes can accommodate students who are working during the day and attending classes at night.

VII. New Business: New Equipment – We have a new air brake trainer, plus we will be adding a 2022 ISX to the program using Perkins funds. We are continuing to instruct in after- treatment. We are looking forward to Tier V emissions requirements, new HVAC training equipment, and an Alison 1000 Cutaway. We are in an equipment replacement period and Eric and Mikael are working hard to make sure new equipment will have a long life in our program. Feedback on new equipment is appreciated form the industry members.

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VIII. Reports from our Industry members – Industry Needs –

Bobby said that he is trying to hire new help for a new facility his company is building.

John B. said that he is always looking for new techs. He can find entry level people easily, and well skilled people, but not so much in the middle range.

Marina Avila mentioned that she has some apprentice programs, and will pay for college programs. She will reach out for one-on-one discussions. She asked about tools. Students are allowed to bring school tools to a job. After a student completes an apprenticeship with her, the company supplies the student with their own tools.
mavila@ta-petro.com

The Learning Outcomes for the DETC program is attached to these minutes.

IX. Adjournment: 1:10 pm

https://bit.ly/cnmadvisory

Transportation Technology (AAS),

Diesel Equipment Technology Concentration

Learning Outcomes:

Upon successful completion of this program, the students will be able to:

1. Diagnose and repair vehicle mechanical, electrical, and computer-managed systems.
2. Show proficiency in the language arts, communications, science, and math skills required in the automotive service industry.
3. Apply critical thinking skills to solve workplace problems.
4. Work safely and in an environmentally responsible manner.
5. Perform basic word processing and computer database searches for repair information.

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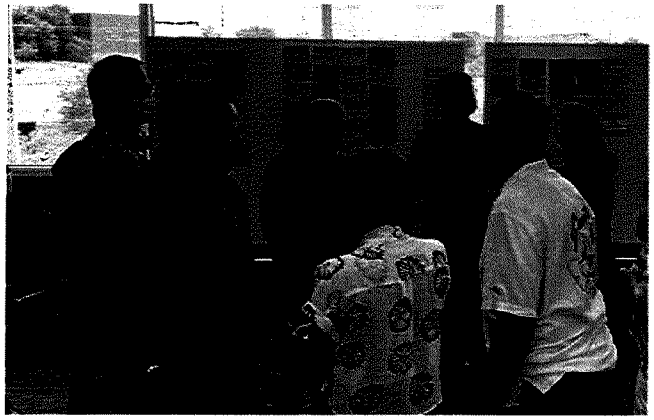
Applied Technology Programs at Rio Rancho

Automotive / EV / Diesel Technologies Facility

Locations of Trades Education at CNM

The table to the right was generated through extensive data analysis and numerous focus groups with industry partners, CNM staff, and various community leaders through the CNM Visioning the Future of Trades Education process in 2021.



X = Programs to be located in the new Trades Facility currently under construction on CNM's Main Campus

Program Group	Skilled Trades Scenario
Pre-Architecture	At ATC (Phase II)
Automotive Technology	Move to RR
Aviation	At ATC
Carpentry	X
Construction Management Technology	At ATC (Phase II)
Diesel Mechanics	Move to RR
Architecture/Engineering Drafting Technology	At ATC (Phase II)
Electrical Trades	X
Photovoltaics	Move to Westside
Film	Not in Scope
Heating, Ventilation, Air Conditioning, & Refrigeration (HVAC)	X
Machine Tool Technology	At ATC (Phase II)
Plumbing	X
Mechatronics	X
Surveying Technologies	At ATC (Phase II)
Unmanned Aircraft Systems (UAS)	At ATC (Phase II)
Welding	X
Shared	X

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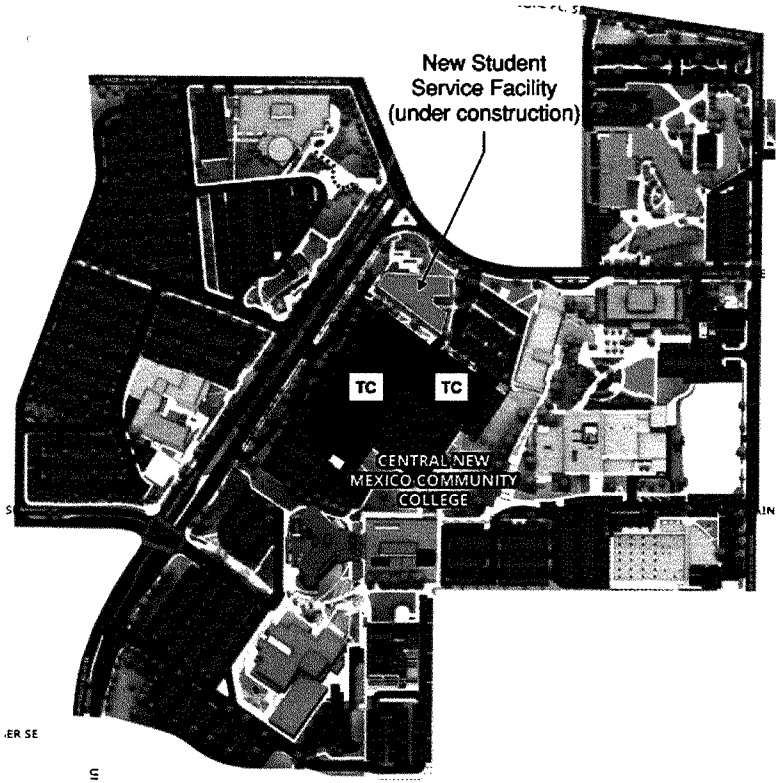
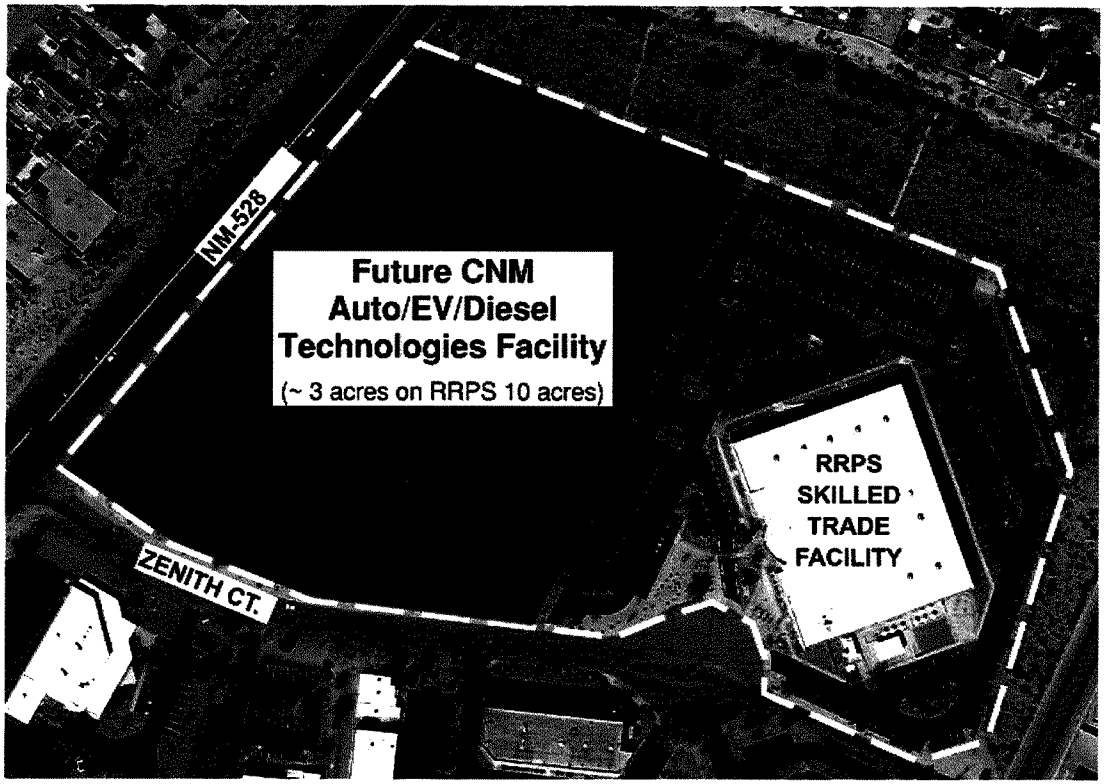
Current and Planned Program Locations



Current Location: TC Buildings on Main Campus



Planned Future Location: Rio Rancho Public Schools CTE Campus

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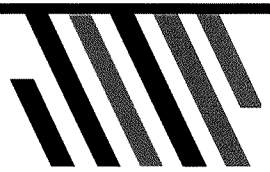
Options

Scenario No. 1	
Auto/EV/Diesel Technology Programs move to new CNM Facility on Rio Rancho Public Schools CTE Campus	49,256 square feet
Scenario No. 2	
Auto and EV Technology Programs move to new CNM Facility on Rio Rancho Public Schools CTE Campus	38,360 square feet
Renovate existing Auto/EV Technology spaces in the TC Building or renovate another CNM space for the Diesel Technology Program	
Scenario No. 3	
Diesel Technology Program moves to new CNM Facility on Rio Rancho Public Schools CTE Campus	23,195 square feet
Renovate existing Auto/EV Technology spaces in the TC Building or renovate another CNM space to address current lab and classroom inadequacies	



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