

Butler Community College

New Program Proposal
Diesel Technology
Associate of Applied Science
and
Certificate

April 22, 2021

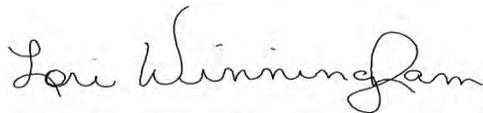
New Program Request Form

CA1

General Information

Institution submitting proposal	Butler Community College
Name, title, phone, and email of person submitting the application <i>(contact person for the approval process)</i>	Lori Winningham, Vice President of Academics 316-322-3110 lwinning@butlercc.edu
Identify the person responsible for oversight of the proposed program	Mel Whiteside, Dean of Science, Technology, Engineering, and Mathematics
Title of proposed program	Diesel Technology
Proposed suggested Classification of Instructional Program (CIP) Code	47.0613
CIP code description	A program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, gasoline engine mechanics, HVAC systems, and auxiliary equipment installation and repair.
Standard Occupation Code (SOC) associated to the proposed program	49-3031.00
SOC description	Bus and Truck Mechanics and Diesel Engine Specialists: Diagnose, adjust, repair, or overhaul buses and trucks, or maintain and repair any type of diesel engines. Includes mechanics working primarily with automobile or marine diesel engines.
Number of credits for the degree <u>and</u> all certificates requested	62 credit hours for AAS 40 credit hours for certificate
Proposed Date of Initiation	Fall 2021
Specialty program accrediting agency	NATEF ASE (Automotive Serve Excellence) and AED (Associated Equipment Distributors)
Industry certification	ASE

Signature of College Official_____



Date_ April 22, 2021

Signature of KBOR Official_____

Date_____

Narrative

Program Description

The program will prepare students to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles and heavy equipment. Students will learn how to maintain and repair diesel engines, suspension and steering systems, brake systems, electrical and electronic systems, conduct preventative maintenance inspections, drive trains, gasoline engine mechanics, HVAC systems, and auxiliary equipment installation and repair. This program is ideal for those looking to begin their diesel career as an entry level diesel technician or a student considering a generalized program to pursue further study at a four-year university.

- Program Objectives

- Demonstrate knowledge of hazards and related safety practices associated with diesel mechanics. Perform tasks related to entry-level employment in the diesel technology field.

- Demonstrate an understanding of personal and work characteristics that contribute to an effective job performance.

- Use communication skills appropriate to diesel mechanics.

- Apply the theory of diesel mechanics to specific jobs using critical thinking/reasoning and the ability to work independently.

- Use mathematical data and reasoning skills in relation to diesel mechanics.

- Admission and Graduation Requirements

Program admission follows Butler Community College procedure on admissions.

- Complete the Application for Admission

- Submit official transcripts from each institution for prior coursework to be used toward a degree program.

- Placement Test Requirements: Degree seeking students and those enrolling in math or English courses must meet placement test requirements (ACT/SAT scores taken within last 3 years, Butler placement test, Accuplacer test, or college transcripts showing completion of course prerequisites)

- Submit proof indicating proper residence classification for tuition costs.

- Graduation Requirement

- Minimum 2.0 GPA at Butler Community College

- Attain a grade of C or better in all required courses

- Complete a Butler Community College degree application form

Demand for the Program

KDOL Long Term Outlook

The Kansas Department of Labor Long-term Occupation Projections 2018-2028 indicate a statewide change of employment for Bus and Truck Mechanics and Diesel Engine Specialists (49-3031) of 1.6% with an annual median wage of \$44,910 with high school diploma or equivalent as the typical education needed for entry. Annual openings equate to 297 jobs per year.

Emsi job posting analytics show that from February 2020 to February 2021, roughly 11,082 total postings (2,602 unique postings) were advertised statewide with a median advertised hourly wage of \$22.95 per hour.

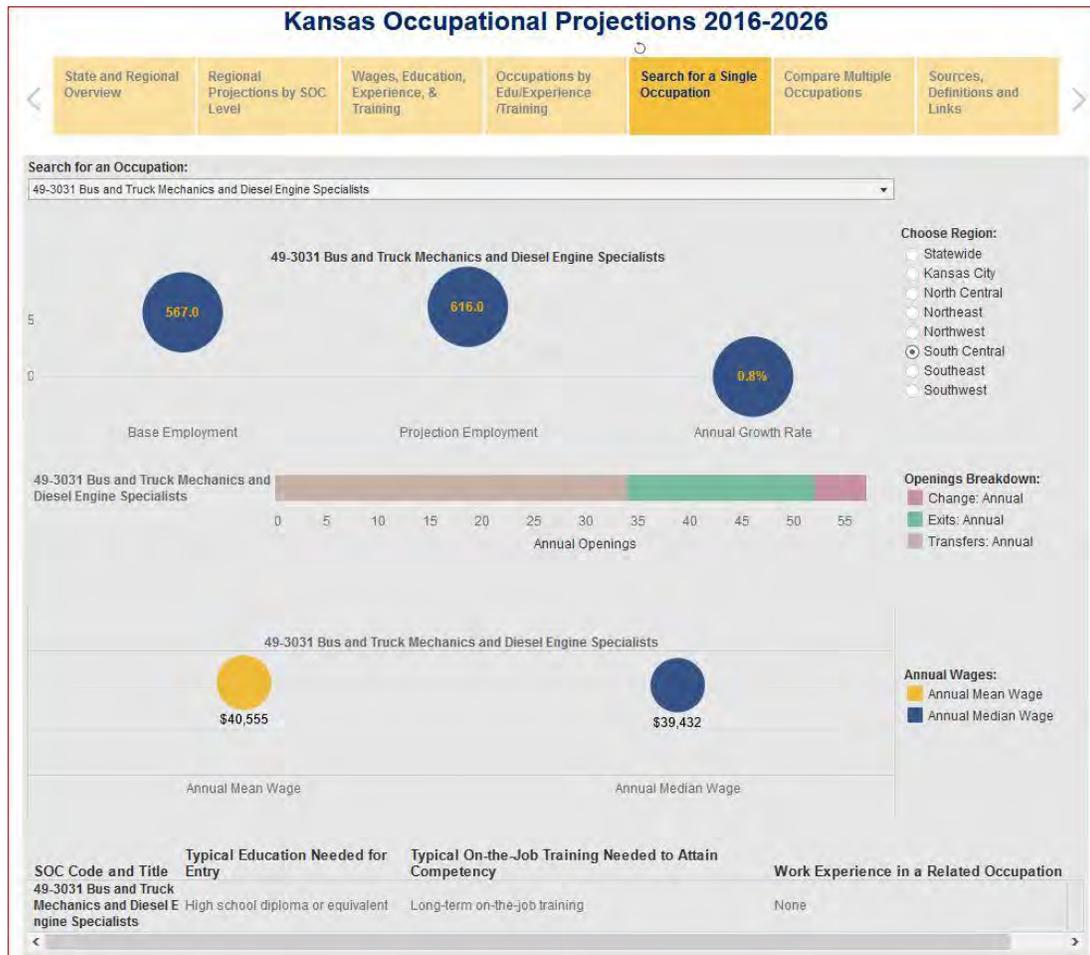
- Furthermore, a local search for “diesel mechanic” on Indeed.com (February 24, 2021) within the last 14 days and within 100 miles, produces a net job search result of 46 jobs.

- Furthermore, a job search on ZipRecruiter.com (February 24, 2021) shows within the last 30

days and a 100 mile range produces a net result of 49 jobs. This job search data better aligns with what our industry partners are telling us – there is a need! Diesel mechanics are needed throughout our region to maintain heavy equipment for the Kansas Department of Transportation, Foley Tractor Company, most construction companies (such as Wildcat Construction), school district bus barns, busing companies, local municipality maintenance shops, over the road trucking companies (such as Freightliner Truck Center), and smaller, but critically important diesel shops, such as Jets Diesel in El Dorado, Kansas. The need and demand is there, but the supply of diesel mechanics is short.

- **Local Demand**

Within the general region of Butler Community College (defined by the following counties: Butler, Chase, Cowley, Greenwood, Harper, Kingman, Marion, Morris, Sedgwick, and Sumner) other technical or community colleges offering a Diesel Technology degree or pathway do not exist (refer to **APPENDIX A**).



(source: Kansas Department of Labor. A graphic representation was not available for 2018-2028 data noted above.)

- **Business/Industry Partnerships**

In the fall 2020, Foley Tractor Company donated a 9 liter diesel engine and transmission and committed to donate more equipment as it becomes available. Furthermore, they are committed to providing scholarship and internship opportunities to diesel technology students. Further partners include Wildcat Diesel in Wichita and Jets Diesel in El Dorado, Kansas. Wildcat has committed to provide additional equipment donations and student internship opportunities. We

will continue to seek additional industry partnerships that will improve the program for both students, faculty, and the community.

Additional businesses have expressed their interest in supporting Butler's Diesel Technology program through in-kind donations. Butler will continue seeking additional industry partners to develop valuable internship, job-shadowing, and site visit opportunities for students. By providing and facilitating these training opportunities, Butler will help fulfill the specific needs of industry in our region.

Duplication of Existing Programs

- There are seven other community colleges or technical schools that offer Diesel Technology AAS and certificate options: Dodge City Community College, Highland Community College, North Central Kansas Technical College, Northwest Kansas Technical College, Salina Area Technical College, Seward County Community College, and Washburn University Institute of Technology. There are no institutions offering a Diesel Technology program in South Central or the Southeast Kansas region (refer to **APPENDIX B**).
- Future collaboration is planned with Pratt Community College's Agriculture Equipment program. From an initial discussion with PCC President, there is interest in developing a partnership with PCC in the future. Plans are to focus on getting this new program launched and established before moving a partnership with PCC forward. The PCC's program focuses on Agriculture diesel engines which would complement Butler's Agriculture program and community. Additional space and financial resources would be required.

Program Information

- Program Courses
 - AT 115. Electrical 1. 3 hours credit.** Prerequisite: A score at a pre-determined level in reading, writing and math on a placement instrument. This course will enable the student to explore the principles of electricity and electrical circuit characteristics. The student will identify basic wiring diagram symbols, components, legend information and perform basic electrical circuit measurements utilizing a Digital Volt Ohm Meter (DVOM).
 - AT 116. Electrical 2. 2 hours credit.** Prerequisite: AT 115 with a C or better. This course will enable the student to diagnose and service battery related complaints. The student will also conduct diagnosis and repair of charging and starting systems.
 - AT 117. Brakes 1. 3 hours credit.** Prerequisite: AT116 with a C or better. This course will enable the student to examine, inspect and repair brakes, bearings and hub assemblies.
 - AT 217. Suspension and Steering 1. 3 hours credit.** Prerequisite: AT 118 with a C or better. This course will enable the student to document fundamental suspension and steering system concerns and perform fundamental suspension and steering system repairs. The student will also perform tire and wheel diagnostics and repairs.
 - AT 218. Suspension and Steering 2. 1 hour credit.** Prerequisite: AT 217 with a C or better. This course will enable the student to diagnose and repair complex steering and suspension systems, correct 4-wheel alignment issues, and perform wheel tracking diagnosis and repair.
 - BA 104. Computer Concepts and Applications. 3 hours credit.** Prerequisite: The student must have a typing speed of at least 20 words per minute (a pretest will be given). This course will enable the student to use the Windows operating system and Microsoft Office applications, including word processing, spreadsheet, database, and presentation graphics. The student will build technology literacy skills by practicing essential computer concepts.

BA 112. Personal Finance. 3 hours credit. This course will enable the student to understand the principles and practices of money management, consumer credit, savings, investments, taxation, and consumer protection.

BA 210. Principles of Management. 3 hours credit. This course will enable students to develop short and long-range plans to effectively accomplish organizational goals. Through the use of terminology, exercises and case studies, students will be able to give a critical appraisal of real life situations involving organizing, staffing and motivating others. The student will also learn tools to aid in problem solving, valuing diversity and coping with change.

BS 105. Sociology. 3 hours credit. This course will enable the student to explore the development, structure, and functioning of human groups and how these groups shape development and way of life. The student will be able to apply the knowledge gained about topics that include culture, socialization, collective behavior, institutions, stratification, inequalities of gender and age, deviance and social change.

BS 160. General Psychology. 3 hours credit. This course will enable the student to apply the knowledge obtained about topics including the biological basis of behavior, sensation, learning, cognition, intelligence, motivation, development, personality, psychological disorders, and social psychology to one's personal life. The student will be able to use this knowledge and the critical thinking skills gained from this course to enhance the quality of one's life when interacting with others.

DT 100. Diesel Engines. 5 hours credit. Prerequisite: AT115 with a C or better. This course will enable the student to gain knowledge and skills necessary to service medium and heavy duty diesel engines. The student will receive instruction on the operating principles, construction, design variations, and applications of the diesel engines. The student will learn to perform a complete disassembly and assembly of the diesel engine, to include the cylinder head, block, and timing gears using the instructions in the engine's manufacturers service manual. The student will learn the proper methods of inspecting, identifying, and naming the components to determine serviceability of the components prior to making a repair. The student will learn to service, repair, and diagnose the cooling and lubricating system of diesel engines. The student will learn the different types of coolants and additives, and how to test for Supplemental Coolant Additives (SCA) to determine if additions or replacement are needed. The student will learn to research vehicle service information with computer and internet based electronic retrieval systems.

DT 200. Truck and Heavy Equipment Repair. 6 hours credit. Prerequisite: AT115 with a C or better. This course will enable the student to use general and special repair techniques for normal shop operations. The student will utilize power tools and measuring tools to repair engines, power-trains, hydraulic, and electrical problems. The student will learn about repair estimates, shop records, and manufacturers' service publications. The student will study laws regulating hazardous materials and federal motor safety standards. The student will learn about vehicle inspections, brakes, air application systems, suspension systems, and preventive maintenance programs while following safety procedures.

DT 201. Hydraulics. 5 hours credit. Prerequisite: AT115 with a C or better. The course will enable the student to learn basic principles of applied hydraulics that reference confined fluids. The student will study system components and functions, multiplication of work force, safety, performance testing, line hookups, and the identification of hydraulic pump characteristics, as related to basic hydraulic systems.

DT 202. Air and Engine Brakes. 2 hours credit. Prerequisite: AT115 with a C or better. This course will enable the student to use knowledge and theory in the operation and repair of braking systems used in agriculture, trucks, and heavy equipment.

DT 203. Diesel Drive Trains. 5 hours credit. Prerequisite: AT115 with a C or better. This course will enable the student to gain knowledge of diesel drive trains, differentials, diesel torque through clutches, mechanical transmissions, and final drive units. The student will finish with wheels and track applications on diesel powered equipment. The student will disassemble, inspect, and rebuild the drive train.

EG 101. English Composition 1. 3 hours credit. Prerequisite: A score at a pre-determined level on a placement instrument, or a C or better in EG 060 and RD 012, or a C or better in EG 060 and concurrent enrollment in RD 012. This course will enable the student to communicate effectively through a variety of writing activities. The student will develop knowledge, skills, and critical thinking ability with regard to writing and reading. The student will recognize the importance of the grammatical and rhetorical structures of language to clear and effective writing. The student will recognize the process of creating documents through regular writing assignments.

MA 114. Technical Mathematics 1. 3 hours credit. Prerequisite: Placement score or MA060 (or MA064, MA065, and MA066) with a C or better or diagnostic credit. This course will enable the student to directly apply mathematics to several fields of study. The student will solve practical applications of arithmetic, geometry, ratios and proportions, signed numbers, powers, roots and functions

IP 193. Internship 1.2. 2 hours credit. This course will enable the student to link classroom learning to an applied setting in a work environment. The student will work a minimum of 100 contact hours. The student will intern for a specific period of time, which may serve as a precursor to professional employment.

IP 293. Internship 2.2. 2 hours credit. Prerequisites: IP 192, IP 193, or IP 194 with a C or better and the student must secure a suitable internship position in a related field prior to the first day of class. This course will enable the student to gain additional experience in a work environment and apply classroom learning to the workplace. The student will work a minimum of 100 contact hours. The student will intern for a specific period of time, which may serve as a precursor to professional employment

PD 121 Engaging in Business and Industry (BI). 1 hour credit. This course will enable students to demonstrate self-awareness about personal learning preferences and use personalized academic skills in effectively engaging with college texts, projects, ideas, and other tasks related to academic and professional development in BI. The student will demonstrate skillful strategies for navigating processes and challenges of higher education environments, especially BI Major Pathway processes, degree programs, transfer options, and professional ends.

SP 102. Interpersonal Communication. 3 hours credit. This course will enable the student to: Identify and practice effective interpersonal communication (verbal and nonverbal) techniques. Discuss the role of perception (both of self and others) in interpersonal communication. Identify major barriers to effective listening and how to overcome them. Recognize and practice effective conflict resolution. Recognize thoughts and feelings and be able to express them appropriately.

WE 110. OSHA 10. 1 hour credit. This course will enable the student to gain critical knowledge regarding OSHA policies, procedures, and standards, including general industry safety and health principles. The student will learn the scope and application of the OSHA General Industry Standards, with special emphasis placed on those areas that are most hazardous, along with recommended abatement techniques.

- Proposed program including multiple criteria

For the AAS and certificate pathways, students will be required to take all Diesel Technology (DT) and noted Automotive Technology (AT) courses, though they will have some options regarding general education courses.

- Program Plan of Study/Degree Plans (refer to **APPENDIX C**).
- Program Accreditation
The Diesel Technology program will seek accreditation from the same accrediting agency that accredits our Automotive Technology program, the ASE Education Foundation. Additionally, we will seek program accreditation through the Associated Equipment Distributors (AED). ASE and AED accreditation will be pursued within the first 2 years of the program launch.

Faculty

- Faculty Qualifications
All faculty must comply with the Higher Learning Commission qualified standards. Faculty teaching in career and technical education college-level certificate and occupational associate's degree programs should hold a bachelor's degree in the field and/or a combination of education, training and tested experience. Such qualifications are allowable even in instances where technical/occupational courses transfer, which HLC recognizes is an increasing practice. While it is preferred that faculty have a bachelor's degree and a minimum of two years or 4,160 hours of Diesel experience (including internship hours), faculty with an associate degree and five years or 10,400 hours of Diesel experience will be considered, or no degree with 10 years (20,800 hours) of Diesel experience.

All General Education courses will be taught by faculty following HLC guidelines as outlined in the faculty handbook. Faculty teaching transfer courses must hold an approved graduate degree from an institution which has been accredited by an agency approved by the Council for Higher Education Accreditation. Faculty must have thirty (30) hours of relevant substantial study, including at least eighteen (18) semester hours in the teaching academic discipline. Faculty teaching courses in career and technical programs must hold a graduate degree and/or possess equivalent occupational technical experience appropriate to the courses they are teaching.

Program Faculty

Mark Jaye: Master Technician Certified. He possesses A1-A8 certifications and in A3 Manual Drive trains and axles. Pertinent to Diesel Technology, our new Diesel Technology faculty member will need ASE certified for Medium to Heavy Duty Truck Certifications in the following areas:

- T1 - Gasoline Engines
- T2 - Diesel Engines
- T3 - Drive Train
- T4 - Brakes
- T5 - Suspension and Steering
- T6 - Electrical/Electronic Systems
- T7 - HVAC
- T8 - Preventative Maintenance Inspection

This is in addition to any diesel technology certifications required to work on and train on heavy diesel equipment.

Cost and Funding for Proposed Program

- Faculty Funding
The first three years of the Diesel Technology program will involve one Butler funded full-time (FT) faculty member and one adjunct faculty member. This will be paid for out of Butler's General Operations Fund. This position is currently in the budget. It is a reallocation of a

position from another department that was vacated due to a retirement in May 2020. Year one of full-time faculty pay plus benefits is forecasted at \$73,443 and adjunct pay is estimated at \$3,990 (two, 3 credit hr. classes x \$665/cr. hr.). Year two FT instructor salary plus benefits = \$74,912; year two adjunct pay = \$4,068 (two, 3 credit hr. classes x \$678/cr. hr.). Year three FT instructor salary plus benefits = \$76,410; year three adjunct pay = \$4,152 (two, 3 credit hr. classes x \$692/cr. hr.). An annual pay increase of 2% is included for FT and PT faculty pay adjustments.

- Facility Costs

The Diesel Technology program will be housed at our Butler of El Dorado campus next to the Automotive Technology program. These two programs will share the facility and some equipment. To accommodate larger commercial vehicles, the current facility garage door will need expanded and replaced. We estimate the remodel and door will cost about \$25,000. Facility maintenance and utilities are covered by Butler's General Operating Budget. Continued evaluation of the space for other technical, material, and safety needs will take place upon completion of the program's first year.

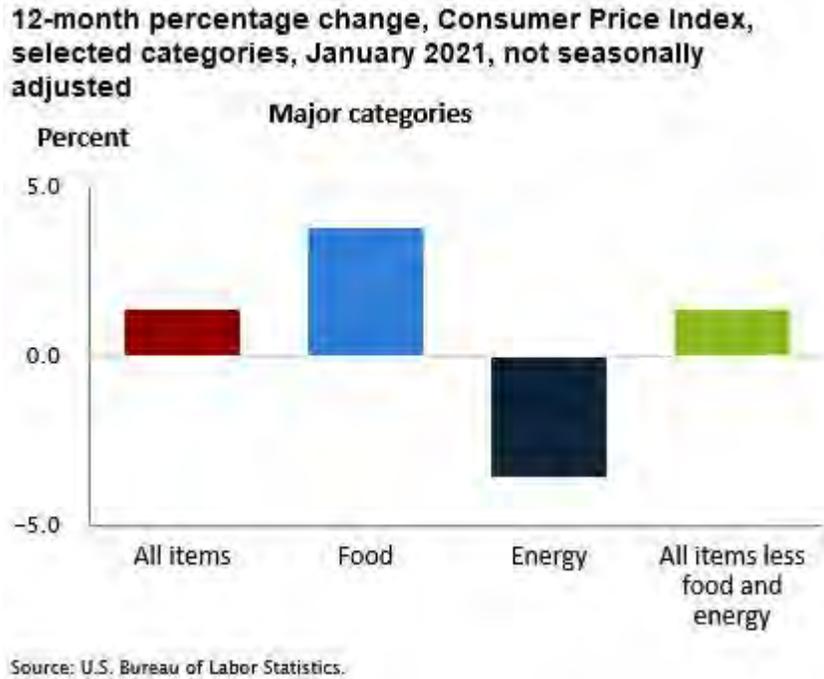
- Student Fees

While we anticipate various industry partners will contribute to the new Diesel Technology program with in-kind and monetary donations, this will not cover ongoing expenses necessary to fund equipment and supply for the program. Butler will minimize the financial burden on students and other stakeholders; however, program specific fees are a necessary component to cover costs of equipment maintenance, supplies, future equipment replacement, etc. Butler will begin by assessing a \$20/credit hour fee on each Diesel Technology (DT) specific course. Following year one of program initiation, the advisory committee and Butler administration will review this fee and make further recommendations as to whether course fees need increased or decreased. With forecasted first year enrollment of 10 full-time students (enrolled in three 5 DT courses per year), we are forecasting \$4,600 in program fee revenue for the 2021-2022 academic year.

- Equipment and Supplies

Initial costs for equipment and supplies will be high. Many pieces of equipment to run a quality diesel technology shop will be required to provide high quality instruction. Many of the costs will come from the purchase of new equipment, tools, tool boxes, oil, and many other miscellaneous supplies. We estimate these costs to run \$162,561. Though prices continued to trend upward for food (3.8%), fuel (7.4%, January) and energy (3.5) over the past 12 months, the Bureau of Labor and Statics (BLS) February 11, 2021, report states, "The all items index rose 1.4 percent for the 12 months ending January (2021). The index for all items less food and energy also rose 1.4 percent over the last 12 months, a smaller increase than the 1.6-percent rise for the 12 months ending December." Economists and analysts predict this trend continuing through 2021; therefore, a 1.6 percent annual increase was taken into consideration in calculating future costs for equipment and supplies (Source: Bureau of Labor Statistics, U.S. Department of Labor, Consumer Price Index News Release, January 2021.

https://www.bls.gov/news.release/archives/cpi_02102021.htm (visited February 17, 2021).



- CA-1a Form - New Program Request Form - (refer to **APPENDIX D**)
- CA-1b KBOR Excel in CTE Fee Summary (refer to **APPENDIX E**)
- CA-1c Carl D Perkins Funding Eligibility Form - (refer to **APPENDIX F**)
- Startup Costs

Initial program start-up costs to cover equipment and supplies will be partially underwritten by industry partner donations, Butler’s General Operating Fund (GOF) will support the program and where appropriate, in future years, Carl Perkins’s grant funds may be requested. We are forecasting an initial startup cost of \$239,994 to cover equipment, tools, supplies, materials, technology, software and accreditation. The plan is to cover as much as possible with industry partners donations. Industry partner conversations are currently taking place to identify specific equipment, supply needs, and scholarship donations. Specific request for Carl Perkins funding is unknown as this time.

Program Review and Assessment

- Program Review Cycle

The program review will adhere to the established Butler Community College’s procedure for program assessment. An in-depth review of the program will be completed, with data and outcome reviews by program faculty, the department chair, and the Dean for STEM/ CTE. This data includes enrollment demographics, program retention, student success rates, job placement, and wages.

In addition to the regular review process, the program will be reviewed by the department chair and faculty on a semester by semester basis. This will allow any unforeseen problems associated with outcomes and/or leaning units to be addressed, so the program can evolve.

PROVIDE Committee

The Academic Program Viability system in place at Butler Community College is based upon the IMPROVE model (Index to Measure Program Viability and Effectiveness). The goal of this process is to assure the College's resources are used in response to the College's Mission, its Strategic Master Plan, the needs of students, and the requirements of the community it serves. The framework of review for program clusters is based upon five metrics: Community Stake, Market Outlook, Mission Compatibility, Performance, and Resourcing/Revenue/Costs. A weighted score is determined for each program cluster by a broad-based cross-functional PROVIDE committee (Program Viability Determination) so that recommendations for viability of program clusters can be reported to inform program decisions. Each program cluster score falls into one of four possible outcomes:

1. Program Discontinuation (termination of the program) IMPROVE score of 50 or less
2. Program Modification (structural changes to the program) IMPROVE score of 51-60
3. Status Quo (no significant changes to the program) IMPROVE score of 61-80
4. Program Initiation (recommendation for program expansion) IMPROVE score of above 80

Each program cluster is reviewed on a two-year rotation. As with any new program, the initial review by the PROVIDE committee will happen in the second year of operations. In addition, as part of the budget development process, each program is expected to conduct a program review analysis as needs are identified and move forward in the budgeting process. This annual program review is intended to identify departmental goals, identify needed resources and establish a timeline for program modifications. These are reviewed by the program division dean, then submitted to the Vice President of Academics, and then to Executive Council for resource allocation/reallocation.

Program Approval at the Institution Level

- Provide copies of the minutes at which the new program was approved from the following groups:
 - Program Advisory Committee (refer to **APPENDIX G**)
 - Curriculum Committee

The Butler Community College Faculty Curriculum Team examines, recommends and approves all courses; it does not examine nor approve degree programs. Approved courses reflected in the attached pathway have been reviewed/approved by the division dean and the Vice President of Academics prior to final review/approval from our Board of Trustees.

- Governing Board (refer to **APPENDIX H**)

Submit the completed application and supporting documents to the following:

Director of Workforce Development
Kansas Board of Regents
1000 SW Jackson St., Suite 520
Topeka, Kansas 66612-1368

APPENDIX A
Letters of Support

Jets Diesel, LLC
9529 SE US-54 El Dorado, KS 67042
316-217-6716



February 17, 2021

Butler Community College
901S. Haverhill Road
El Dorado, KS 67042
RE: Diesel Technology Program

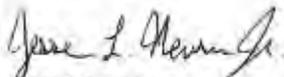
Dear Kansas Board of Regents:

Jets Diesel, LLC is thrilled to see the proposed Diesel Tech Program at Butler Community College. As an active diesel repair shop just outside of El Dorado, we see the high demand for diesel technicians in and around our surrounding areas. Diesel Engines are a breed of their own and we see that often general repair shops are not able to diagnosis diesel engine correctly, so to see this program offered at Butler Community College.

Our company stands ready to provide support to Butler Community College for this program. We would like to be active in the success of this program offering donations/sponsorships, equipment, diesel career shadowing, facility tours, full-time job placement opportunities for graduates, as well as knowledge in any form that would be of use. I will continue to stay active with the program as an advisory committee member.

We are confident not only our company, but others in the area, will support this program. We have found that diesel technicians will learn as they grow, but the basic knowledge that is being offered locally with this program plays a big role in having a successful career. I have 16 years of experience with diesel heavy duty engines, knowledge is a powerful tool, and I am so excited to be apart of this program.

Sincerely



Jesse Newman

Owner

Wildcat Construction Co., Inc.

P.O. Box 9163 • Wichita, KS 67277
3219 W. May St. • Wichita, KS 67213
(316) 946-6408 • Fax (316) 942-4012
www.wildcatcompanies.com



An Equal Opportunity Employer

Colorado Office

8570 Criterion Dr., Suite 118
Colorado Springs, CO 80920
(719) 550-1008 • Fax (719) 550-2000

February 17, 2021

Dear Kansas Board of Regents:

On behalf of Wildcat Construction Co., Inc., we would like to advocate our full support of a Butler Community College Diesel Technology Program.

Our industry cannot function without quality heavy diesel technicians. The recent resurgence in educational opportunities for this profession is unable to make up for a decade of it being neglected as a lucrative career path. We believe this program will be of benefit to not only Wildcat Construction, but the Wichita and Kansas construction industry as well.

It is not hyperbolic to say that the difficulty in hiring and retaining skilled, professional heavy equipment technicians is likely the single greatest challenge facing heavy equipment divisions across the country. It is an issue that effects everyone from Fortune 500 companies to mom & pop construction companies. Therefore, I am confident in saying that our support for this program will be shared by companies like us across the state.

We stand ready to provide support to both the program and its students via donations, sponsorships, heavy equipment and small tools, technician career presentations, and shop/job site tours. Additionally, we hope to aid in students' development at any stage of their education with job shadowing, internships, and full-time employment.

Butler has proven itself to be exceptional at providing its students with the skills, knowledge, and professionalism for a successful career in today's trades. We would be honored to support them as they continue that success with a diesel technology program.

Sincerely,

A handwritten signature in black ink, appearing to read "Roger McClellan".

Roger McClellan
President



2/19/21

Dear Kansas Board of Regents:

Foley Industries is excited to see the proposed Diesel Tech Program at Butler Community College. Our industry offers several very rewarding careers, but needs more educational programs to point students in that direction. We are currently in need of at least an additional 65 technicians, across our territory, and that is without the normal attrition that we will see this year. The need of a skilled workforce is critical to our mission of "Empowering Progress" for our customers and the customers that they ultimately serve. Without the appropriate size of workforce, we are limited in our ability to complete our mission. We are willing to partner with Butler Community College to provide internships for students, tools and supplies to the program, and also willing to provide support to the classrooms.

We are very excited about the future of this program, and would be happy to talk more about how we can be of support.

Sincerely,

Jeff Smarsh
General Service Manager – West
Foley Industries, Inc.
1550 S. West Street
Wichita, KS 67213
316.943.4211 X1885
316.249.0309 Cell

www.foleyeq.com

KANSAS

Chanute
501 W. 35th Pkwy.
Chanute, KS 66720
(620) 431-3600

Colby
205 E. Horton Ave.
Colby, KS 67701
(785) 462-3913

Concordia
1805 Lincoln St.
Concordia, KS 66901
(785) 243-1960

Dodge City
1600 E. Wyatt Earp Blvd.
Dodge City, KS 67801
(620) 225-4121

Great Bend
701 E. Tenth St.
Great Bend, KS 67530
(620) 792-5246

Liberal
1701 E. 5th St.
Liberal, KS 67901
(620) 626-6555

Manhattan
5104 Skyway Dr.
Manhattan, KS 66503
(785) 537-2101

Olathe
19960 W. 157th St.
Olathe, KS 66062
(913) 393-0303

Salina
2225 N. Ohio St.
Salina, KS 67401
(785) 825-4661

Topeka
1737 SW 42nd St.
Topeka, KS 66609
(785) 266-5770

Wichita
1550 S. West St.
Wichita, KS 67213
(316) 943-4211

MISSOURI

Kansas City
5701 E. 87th Street
Kansas City, MO 64132
(816) 753-5300

Sedalia
1040 Sedalia Road
Sedalia, MO 65301
(660) 829-7400

St. Joseph
3619 Pear Street
St. Joseph, MO 64503
(816) 233-2516

Pittsburg State University
COLLEGE OF TECHNOLOGY

Department of Automotive Technology
1701 South Broadway • Pittsburg, KS 66762-7576
620/235-6189 fax: 620/235-6190

Date: February 23, 2021

Re: Butler Community College Diesel
Technology Program

Dear Kansas Board of Regents:

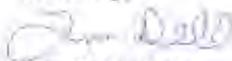
I am writing a letter of support for the proposed Butler Community College Diesel Program. I am the Diesel and Heavy Equipment Coordinator at Pittsburg State University. This is my 22nd year of teaching at PSU in this industry. I am the author of two diesel and heavy equipment textbooks that are used throughout North America, *Hydraulic Systems for Mobile Equipment* and *Heavy Equipment Power Trains and Systems*. I have conducted webinars for the AFD foundation to provide instruction in heavy equipment instruction for their instructors. I have conducted face-to-face workshops to provide instruction to diesel and heavy equipment instructors. I have also been the sole advisor of the only Caterpillar ThinkBIGGER 4-year program since its inception. I am a product of the heavy equipment industry and my only child works in the industry. I have personally assisted hundreds of students pursue careers in this industry.

I can enthusiastically support Butler Community College's Diesel Technology program. I have no reservation about the demand for diesel and heavy equipment graduates. Over the past 22 years of teaching heavy equipment systems, I have watched world events that could have negatively impacted the industry such as 9/11, the great recession and Covid 19. The one thing that I can share with confidence is that regardless of what world events are ahead, it is difficult to underestimate the appetite the Diesel and Heavy Equipment industry has for hiring future technicians. The industry is diverse including agricultural equipment, construction equipment, on-highway trucks, light duty trucks, mining, oil and gas drilling industry.

I have confidence that Butler Community College can provide a quality education to diesel and heavy equipment students that can help meet the tremendous need, not only for the Wichita metro area, but for the entire state of Kansas.

In addition, the PSU Bachelors of Applied Science in Technology degree, will also provide a seamless path for Butler Community College graduates who wish to continue their education and earn their baccalaureate degree by completing two more years of education.

Sincerely,



Tim Dell, Ph.D
Diesel & Heavy Equipment Coordinator
tdell@psu.edu
620-235-4182



February 24, 2021

Re: Butler Community College Diesel
Technology Program

Dear Kansas Board of Regents:

I am writing a letter of support for the proposed Butler Community College Diesel Program. Our industry is in dire need of educational programs to support the training of diesel technicians. Here in Wichita and the surroundings areas, there is a major shortage of qualified diesel technicians. Due to the shortage of diesel educational programs here in our area, we have had to recruit technicians from out of state. With the approval of Butler Community College Diesel Program, we would be able to hire students from here in our own state. We have four locations here in Kansas that are always searching for qualified diesel technicians. We also have locations in Nebraska, Iowa, and Minnesota with the same needs.

We will support this program to the fullest extent. This includes Internships, Scholarships, donations of training aids and hiring of future graduates. The success of this program is very integral to the growth of our industry. As an advisory committee member, I pledge to remain active with the growth of the Butler Community College Diesel Program and its needs.

With our "Elite Support" programs, everything is customer based. Our overall focus is the customer and their needs. We can not serve our customers to the fullest potential if we have a shortage of qualified technicians. Our workforce has decreased drastically due to retirement and the shortage of educational programs that help lead qualified students in the right direction. With the proper educational program in place, our industry can grow to unexpected levels.

I am very enthusiastic about the future of this program and its needs. Please feel free to contact me with any further questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Dave Black", is written over the typed name.

Dave Black
Service Manager
Truck Center Companies-Wichita
2955 S. West St
Wichita, KS 67217
316.945.5600

APPENDIX B
Duplication of Programs Data

Institution	Program Title	Total # Declared Majors	Total # Graduates	Total # Graduates Exited and Employed	Median Wage: Graduates Exited and Employed
North Central Kansas Technical College	Medium/Heavy Vehicle and Truck Technology/Technician	41	20	20	\$37, 985
Washburn University Institute of Technology	Medium/Heavy Vehicle and Truck Technology/Technician	54	9	6	\$24, 307
Salina Area Technical College	Medium/Heavy Vehicle and Truck Technology/Technician	41	17	17	\$36, 641
Dodge City Community College	Medium/Heavy Vehicle and Truck Technology/Technician	26	7	5	\$29, 121
Highland Community College	Medium/Heavy Vehicle and Truck Technology/Technician	79	20	18	\$35, 135
Northwest Kansas Technical College	Medium/Heavy Vehicle and Truck Technology/Technician	40	23	16	\$41, 213
Seward Country Community College	Medium/Heavy Vehicle and Truck Technology/Technician	41	9	9	\$32, 926

APPENDIX C

Program pathway and certificate

Butler Community College Diesel Technology AAS Degree Pathway			
Year 1			
FALL		SPRING	
WE 110. OSHA 10 (Fall pre-session)	1	DT 200. Truck and Heavy Equip. Repair	6
AT 115. Electrical 1	3	DT 201. Hydraulics	5
AT 116. Electrical 2	2	DT 203. Diesel Drive Trains	5
AT 117. Brakes 1	3	AT 217. Suspension and Steering 1	3
DT 202. Air and Engine Brakes	2	AT 218. Suspension and Steering 2	1
DT 100. Diesel Engines	5		
Semester Total Credits	16	Semester Total Credits	20
Year 2			
FALL		SPRING	
MA 114. Technical Mathematics	3	PD 121. Engaging in Business and Industry	1
SP 102. Interpersonal Communication	3	BS 105. Sociology or BS 160. Gen Psych.	3
BA 104. Computer Concepts and Applications	3	BA 112. Personal Finance	3
EG 101. English Comp. I	3	BA210 Principles of Management	3
IP 193. Internship 1.2	2	IP 293. Internship 2.2	2
Semester Total Credits	14	Semester Total Credits	12
		Total Minimum Credits for Degree	62

Butler Community College Diesel Technology Certificate Pathway			
Year 1			
FALL		SPRING	
WE 110. OSHA 10 (Fall pre-session)	1	DT 200. Truck and Heavy Equip. Repair	6
AT 115. Electrical 1	3	DT 201. Hydraulics	5
AT 116. Electrical 2	2	DT 203. Diesel Drive Trains	5
AT 117. Brakes 1	3	AT 217. Suspension and Steering 1	3
DT 202. Air and Engine Brakes	2	AT 218. Suspension and Steering 2	1
DT 100. Diesel Engines	5		
IP 193. Internship 1.2	2	IP 293. Internship 2.2	2
Semester Total Credits	18	Semester Total Credits	22
		Total Minimum Credits for Certificate	40

APPENDIX D

KBOR Fiscal Summary for Proposed Academic Programs (CA-1A Form 2020)

Institution: Butler Community College

Proposed Program: Diesel Technology

<u>IMPLEMENTATION COSTS</u>					
Part I. Anticipated Enrollment			2021-2022		
Please state how many students/credit hours are expected during the initial year of the program?					
			Full-Time	Part-Time	
A. Headcount:			10	0	
Part II. Initial Budget			Implementation Year		
A. Faculty			Existing:	New:	Funding Source:
Full-time	1		\$	\$73,443	GOF
Part-time/Adjunct	1		\$	\$ 3,990	GOF
			Amount	Funding Source	
B. Equipment required for program			\$113,131	Carl Perkins and Existing General Operating Fund (GOF)	
C. Tools and/or supplies required for the program			\$ 15,000	Existing General Operating Fund	
D. Instructional Supplies and Materials			\$ 0	Existing General Operating Fund	
E. Facility requirements, including facility modifications and/or classroom renovations			\$ 25,000	Existing General Operating Fund	
F. Technology and/or Software			\$ 5,600	Existing General Operating Fund	
G. NATEF ASE and AED accreditation fees			\$ 3,830	STEM Division Budget	
Total for Implementation Year			\$239,994	Existing General Operating Fund	

<u>PROGRAM SUSTAINABILITY COSTS (Second and Third Years)</u>					
Part I. Program Enrollment			2022-2023, 2023-2024		
Please state how many students/credit hours are expected during the first two years of the program?					
			Full-Time	Part-Time	
A. Headcount:			15/yr.	0	
Part II. Ongoing Program Costs			First Two Years		
A. Faculty			Existing:	New:	Funding Source:
Full-time	1		\$151,322	\$	Existing General Operating Fund
Part-time	1		\$ 8,220	\$	Existing General Operating Fund
			Amount	Funding Source	
B. Equipment required for program			\$ 10,000	Carl Perkins	

C. Tools and/or supplies required for the program	\$ 5,000	Partially covered by students fees and GOF
D. Instructional Supplies and Materials	\$ 0	
E. Facility requirements, including facility modifications and/or classroom renovations	\$ 0	
F. Technology and/or Software	\$ 5,000	Program budget
G. Annual AED accreditation fee	\$ 4,060 (\$ 2,030/yr.)	STEM Division Budget
Total for Program Sustainability	\$183,602	

Please indicate any additional support and/or funding for the proposed program:

We anticipate additional support from Butler Diesel Technology industry partners with in-kind equipment and supply donations. As described in the Detailed Budget Narrative, we are projecting \$4,600 in student fee revenue for 2021-2022; thereafter, student fees will be reviewed by Butler administration and the Diesel Technology advisory committee.

Submit the completed application and supporting documents to the following:

Director of Workforce Development
 Kansas Board of Regents
 1000 SW Jackson St., Suite 520
 Topeka, Kansas 66612-1368

APPENDIX E
CA-1b- Excel in CTE

<i>Per statute (K.S.A. 72-3810), the Kansas Board of Regents shall establish general guidelines for tuition and fee schedules in career technical education courses and programs. The Excel in CTE tuition and fee schedule of every technical education program shall be subject to annual approval. Please include all costs charged to <u>high school students</u> for the proposed new program.</i>		
Institution Name:	Butler Community College	
Program Title:	Diesel Technology	
Program CIP Code:	47.0605	
<i>Please list all fees associated with this program: Only list costs the institution <u>is</u> charging students.</i>		
Fee	Short Description	Amount
AT 115	Covers student uniforms, liability insurance and cert. test.	\$ 110.00
AT 116	Covers expenses for liability insurance and cert. test.	\$ 10.00
AT 117	Covers expenses for liability insurance and cert. test.	\$ 10.00
AT 207	Covers expenses for liability insurance and cert. test.	\$ 10.00
AT 217	Covers expenses for liability insurance and cert. test.	\$ 10.00
AT 218	Covers expenses for liability insurance and cert. test.	\$ 10.00
<i>Please list all courses within the program and any fees associated to those courses: Only list costs the institution <u>is</u> charging students. Do not duplicate expenses.</i>		
Course ID	Short Description	Amount
DT 100	Covers expense liability insurance and cert. fee used in course.	\$ 10.00
DT 200	Covers expense liability insurance and cert. fee used in course.	\$ 10.00
DT 201	Covers expense liability insurance and cert. fee used in course.	\$ 10.00
DT 202	Covers expense liability insurance and cert. fee used in course.	\$ 10.00
DT 203	Covers expense liability insurance and cert. fee used in course.	\$ 10.00
<i>Please list items the student will need to purchase on their own for this program: Institution <u>is not</u> charging students these costs, rather students are expected to have these items for the program.</i>		
Item	Short Description	Estimated Amount
Misc. Tools	Tools needed for program courses.	\$ 1,000.00
Toolbox	Used to store tools and supplies.	\$ 500.00

APPENDIX F – PENDING **CA-1c Carl D. Perkins Funding Eligibility Request Form**

This application should be used for new programs (currently in the program approval process) or existing programs the institution would like reviewed for Carl D. Perkins funding eligibility.

Program Eligibility

An “eligible recipient” is an eligible institution or consortium of eligible institutions qualified to receive a Perkins allocation.

An “eligible institution” is an institution of higher education that offers CTE programs and will use Perkins funds in support of CTE coursework that leads to technical skill proficiency or a recognized postsecondary credential, including an industry-recognized credential, a certificate, or an associate degree, which does not include a baccalaureate degree.

Any program receiving Perkins funds must be designated as a technical program by KBOR. Definition of a technical program may be found in state statute K.S.A. 72-1802. Criteria adopted by the Board of Regents may be found in their February 20, 2019 meeting packet.

Program Levels:

Educational Award Level	Credit Hours
SAPP	0-15
Certificate A	16-29
Certificate B	30-44
Certificate C	45-59
Associate of Applied Science	60-69

Stand-Alone Parent Programs (SAPPs) must meet the following criteria:

- Minimum of 8 credit hours
- Minimum of 80% tiered credit hours
- Maintain an average of 6 concentrators over the most recent consecutive 2-year period

Certificates and Associate of Applied Science degrees must meet the following criteria:

- Minimum of 51% tiered credit hours
- Maintain an average of 6 concentrators over the most recent consecutive 2-year period
- Comply with Program Alignment – *if applicable*

Name of Institution	Butler Community College
Name, title, phone, and email of person submitting the Perkins Eligibility application <i>(contact person for the approval process)</i>	Mel Whiteside, Dean Science, Technology, Engineering, and Mathematics 316.218.6302 mwhiteside@butlercc.edu
Name, title, phone, and email of the Perkins Coordinator	Jaime Goering, Director, Resource Development 316.322.3188 jgoering1@butlercc.edu
Program Name	Diesel Technology
Program CIP Code	47.0613
Educational award levels <u>and</u> credit hours for the proposed request	62 credit hours AAS 40 credit hours CERTB
Percentage of tiered credit hours for the educational level of this request	66%
Number of concentrators for the educational level	N/A The program is currently seeking KBOR approval, no data is currently available
Does the program meet program alignment?	Yes. We've reviewed the Diesel Technician alignment and our program meets both course and credit hour requirements.
Justification for conditional approval: <i>(this section must reference information found within the Local Needs Assessment)</i>	The Diesel Technology program was not included in the FY2020 Carl Perkins needs assessment but will be discussed as part of the FY2022 assessment which will be completed in February 2022. Based on industry data from the 2020 needs assessment, it can be determined that approximately 24 annual openings in this field were anticipated with a salary ranging from \$35,500 to \$44,000. Response to the pandemic will likely see an increase in this projection due to this field being deemed essential.

Signature of College Official *Lois Winnunglam* Date April 22, 2021

Signature of KBOR Official _____ Date _____

APPENDIX G
Program Advisory Committee and Minutes

- Program Advisory Committee

The Butler Diesel Technology Committee is the program advisory committee for the AAS Diesel Technology program. Member of the Committee and their affiliations:

CHAIR: Anthony Dahl, Foley Tractor	Jeff Smarsh, Foley Tractor
VICE-CHAIR: Jesse Newman, Jets Diesel	Mark Jaye, Butler Auto Tech
SECRETARY: Conner Sherwood, Wildcat Construction	
Dr. Tim Dell, Pittsburg State University	
Symba Newman, Jets Diesel	
Dave Black, Freightliner, Truck Centers - Wichita	

APPENDIX G – CONT'D **Program Advisory Committee and Minutes**



Diesel Technology Advisory Committee Meeting

Tuesday, February 09, 4:00 - 5:00 P.M.

Zoom

Attendees: Mel Whiteside – BCC, Niomi Thompson – BCC, Mark Jaye – BCC, Anthony Dahl - Foley, Jeff Smarsh – Foley, Tyler Dehn – Wildcat, Conner Sherwood - Wildcat/Sherwood, Dr. Tim Dell – Pittsburg State University

Welcome – Mel Whiteside

Introductions

Diesel Tech Program

Role and responsibilities of the Advisory Committee:

- Set program direction
- Advise with curriculum input and needs
- Advise on equipment needed for the program
- Future meetings
 - Meet again in two weeks
 - Review Diesel Tech. proposal
 - Participate in two advisory committee meetings per year
 - One in the fall and one in the spring

KBOR Program Package Process

- Butler develops the program package which contains the following information
 - Advisory committee input
 - Current/future employment data (e.g., job growth, wages, etc.)
 - Letters of support
 - Proposed budget
 - Faculty
 - Equipment
 - Supplies
- Next steps
 - Butler Board of Trustees – Tuesday, March 9 – Submit materials before February 25
 - Technical Education Authority (TEA) approval process – Submit before March 19
 - Approve curriculum
 - Proposed course descriptions need developed and approved by advisory committee
 - Letters of support from advisory committee members
- Once approved by the TEA, goes to KBOR for final approval
 - Submit before March 19
 - If approved by KBOR (Kansas Board of Regents), we begin the next steps:



Diesel Technology Advisory Committee Meeting

Tuesday, February 09, 4:00 - 5:00 P.M.

Zoom

- Hire faculty
 - Purchase equipment
 - Develop curriculum
 - Must be approved by Butler's Curriculum Team
-
- Set next meeting date and time
 - Monday, February 22, 2021, 4:00 P.M.

Adjourn

APPENDIX G – CONT'D
Program Advisory Committee and Minutes



Diesel Technology
Advisory Committee Meeting Minutes

Monday, February 22, 2021, 4:00 - 5:00 P.M.
Zoom

ATTENDED

Mel Whiteside, Dean of STEM, Butler Community College
Niomi Thompson, Associate Dean of STEM, Butler Community College
Mark Jaye, Automotive Technology Professor, Butler Community College
Tim Dell, Diesel Technology Professor, Pittsburg State University
Anthony Dahl, Technician Recruiter, Foley Equipment
Jeff Smarsh, General Service Manager, Foley Equipment
Jesse and Symba Newman, Owners, Jets Diesel

Not in attendance:

Tommy Phelps, Equipment Service Manager (Construction Division), Foley Equipment
Tyler Dehn, Wildcat Construction/Sherwood
Conner Sherwood, Wildcat Construction/Sherwood

Welcome – Mel Whiteside

Notes from previous meeting:

- Discussed roles and responsibilities of the Advisory Committee
- Reviewed timeline to present package proposal
- Requested letters of support
- Refer any other potential Advisory Comm. members to Mel

Update on Diesel Tech KBOR program package

- Due this Friday, Feb. 25, for Butler's Board of Trustee's review
- Have two letters of support – third letter is on its way

Budget

- Feedback on proposed budget
- Additional supplies and equipment needed

Next steps

- Butler Board of Trustees – Meets Tuesday, March 9 via Zoom, around 5:30-7:30pm
 - Need three representatives from this board to attend and answer questions if called upon
 - Anthony Dahl
 -
 -



Diesel Technology Advisory Committee Meeting Minutes

Monday, February 22, 2021, 4:00 - 5:00 P.M.

Zoom

- Elect/nominate Advisory Board positions
 - Chair:
 - Co-chair:
 - Secretary:
- If approved by BOT, goes to the KBOR Technical Education Authority (TEA) approval process – Submit before March 19
 - Approve curriculum
 - Proposed course descriptions need developed and approved by advisory committee
 - Once approved by the TEA, goes to KBOR for final approval
 - If approved by KBOR (Kansas Board of Regents), we begin the next steps:
 - Hire faculty
 - Purchase equipment
 - Develop curriculum
 - Must be approved by Butler's Curriculum Team

Set next meeting date and time: Schedule between March 10 -17

Adjourn

APPENDIX H
Governing Board Members and Minutes



- Let's Take Tomorrow -

**BUTLER COMMUNITY COLLEGE
BOARD OF TRUSTEES
MINUTES OF THE REGULAR BOARD MEETING
4:30 p.m., March 9, 2021 – Dankert Board Room**
Meeting Recording can be viewed at <https://youtu.be/BfoLtn8N5yk>

STAFF ATTENDANCE

Lora Jarvis	Lori Winningham (Z)
Esam Mohammad (Z)	Kent Williams (Z)
Tom Borrego (Z)	Kim Krull
Terry Sader (Z)	Bill Rinkenbaugh (Z)
Shelley Stultz (Z)	Matt Jacobs
Bill Young (Z)	Jessica Ohman (Z)
Niomi Thompson (Z)	Mark Jaye (Z)
Kim Sherwood (Z)	Caleb Ediger
Christy Streeter	

BOARD ATTENDANCE

Mary Martha Good
Jim Howell
Doug Law
Lance Lechtenberg
Forrest Rhodes
Shelby Smith
Julie Winslow

GUESTS

Ray Connell	Dave Black (Z)
Tyler Dehn (Z)	Anthony Dahl (Z)
Conner Sherwood (Z)	

*** (Z) – Denotes attendance via Zoom

CALL TO ORDER

Chair Lechtenberg called the regular monthly meeting of the Board of Trustees to order at 4:32 p.m.

Acceptance of the Diesel Technology Certificate – At the request of industry, over the past 12 months, Butler Community College staff and administration have been meeting with diesel industry representatives to develop a Diesel Technology AAS degree. Following these conversations, Butler concluded that there is a recognized demand for diesel mechanics within the Southcentral Kansas region.

Trustees were presented the proposed Diesel Technology AAS degree which administration believe meets the educational needs of the local diesel industry. Companies included in our conversations include, but are not limited to, Jet's Diesel, Foley Tractor Company, Freightliner Truck Center Companies – Wichita, and Wildcat Construction. The program curriculum focuses on meeting regional demand for diesel mechanics. The closest Diesel Technology programs within the region are Salina Area Technical College and Pratt Community College.

As part of the approval process for any program through TEA and KBOR, the program must be represented in the minutes of the local Board meeting and approved to go forward with the program. Niomi Thompson, Associate Dean of the STEM division, introduced the advisory board members who were present via Zoom for the meeting including Conner Sherwood from Wildcat Construction, Dave Black from Freightliner, Anthony Dahl from Foley, and Tyler Dehn from Wildcat Construction as well as Mark Jaye who is the full-time Auto-Tech faculty member for Butler.

Trustee Smith asked to narrow the 100-mile radius around Wichita to 40, but Lori Winningham shared that Zip Recruiter would only go down to 50-mile radius. As of this morning, Zip Recruiter had 56 job openings and Indeed lists 37 job openings. In the 100-mile radius, Zip Recruiter was up to 72 jobs and Indeed was at 45.

Butler would like to start the program in the Fall of 2021 with current budget dollars available to shift to cover the one full-time position required. There are some start up costs as well. Calculations show that with just the technical courses, it will take about 3 years to break even with class sizes of 10 students. If more students enrolled or if donations are given of equipment needed, that time frame could be significantly lower.

Industry representatives were asked if they required a 2 year degree to hire mechanics and they indicated the degree was not required but that mechanics were better prepared and better employees if they had the degree. The industry representatives have been discussing the program with Butler since December 2019.

Trustee Smith expressed that he felt uncomfortable making such a big decision without more notice to look into it. Trustee Winslow indicated she believed students could succeed with just the certificate program and didn't need an AAS degree. Lori explained that the 2nd year of the program includes the gen ed courses and an internship option. Students can complete the certificate only and go straight to work or continue and complete the degree option. When a request is sent to KBOR, both the certificate and degree program are submitted at the same time.

Dave Black from Freightliner said that his company is very supportive of this program as they have gone as far as Texas to recruit workers.

Trustee Winslow asked if it was necessary to offer both the certificate and the AAS degree because the AAS degree requires more money to teach more classes. Chair Lechtenberg explained that the classes in the 2nd year are classes already being taught with available space for these students so it would not require more money.

Trustees Winslow and Smith were hopeful for more time to vote on the program as they didn't feel they had had enough time to research and understand it. Dr. Krull explained that in order to launch the program in the fall, there are several more approvals needed through TEA and KBOR. Because these boards don't meet in the summer months, all approvals need to be completed in June to start the program in the fall.

Trustee Law moved to accept the Diesel Technology Certificate program as presented. Trustee Howell seconded. Trustee Winslow said she would have liked to have seen it sooner

and that she would have voted yes if it were only a certificate program. Trustee Smith said he would like to have future program information available sooner for discussion and review.

Lora Jarvis called a roll call vote. Trustees Good, Law, Rhodes, Lechtenberg and Howell voted in favor. Trustee Smith voted against. Trustee Winslow abstained because she did not have any knowledge of the program, enough information to vote on it, and wanted only to support the certificate. The motion passed.