



To: Laramie County Community College Board of Trustees

From: Dr. Joe Schaffer, President

Date: June 16, 2021

Subject: Request for Spending Authority, Diesel Technology Perkins-funded purchase

Please accept this request seeking your authority to expend Perkins Grant funds for the purchase of equipment in the amount of \$150,000 to advance the Diesel Technology program.

All of the purchases requested contribute to overall growth and modernization of the program as identified in the Program Review goals in 2016. As noted in the Program Review, a weakness of the Diesel Program was “lack of mock-ups”. Other notations in the 2016 Program Review include: “complaints from stakeholders of the lack of training mock-ups, tools, and equipment” and “we are working to improve the age of our current training mock-ups due to stakeholder negative feedback.

Over the past five years, the Diesel Program has relied heavily on industry donations as well as creative faculty-designed training aids (i.e., the air brake trainer) to meet the needs of modernization and training of technicians. Hydraulics and electronics have remained areas of weakness in terms of hands-on learning opportunities. The requested trainers and tools allow the program to create “mock-up” labs for students to learn electrical and hydraulic processes of diesel engines.

These purchases provide additional labs that allow smaller learning groups that contribute to greater demonstration of competency. Each trainer is designed specifically around program goals and industry standards. The details of the costs associated with this purchase are outlined below:

8 units	Ohm's Law and DC Circuits Trainer (Student Exercises Included)	\$18,520
6 units	HVAC electronics moduponent kit	\$26,412
6 units	Advanced electronics moduponent kit	\$25,764
1 unit	Planetary gearset trainer	\$32,500
1	Basic Hydraulics - Double-station	\$32,500
1	Basic through Advanced Hydraulics with Troubleshooting and Touch Screen	\$37,150
	Shipping	\$7,000
	TOTAL	\$150,000

The approved curriculum for the Diesel Technology program and existing training aids do not currently match industry needs. This equipment will allow for more compact training aids and allow the program to run at full capacity without overcrowding existing space. In addition, the modernization of the training aids will allow students more one-on-one training and use of equipment; the current equipment will not meet the needs of the students in an efficient manner.

Staff Recommendation: That the Board of Trustees authorizes the President to expend \$150,000 for the purpose of acquiring equipment to support the Diesel Technology program.
