

Adv Tech 2011-12

Diesel - #3 - Hands-on Virtual Training System

Summary:

Create a learning environment that establishes a high school connection with local high schools. Currently there are no articulated Diesel College Now courses. This will enable a closer connection between the Diesel program and the high school career and technical programs by providing an innovative pathway into Diesel Technology.

Description

The Diesel Technology program will collaborate with industry representatives in the design and construction of a hands-on virtual training system. This equipment simulator is designed to train and orient an entry level operator on basic machine operation, skills and application knowledge. Students will receive orientation, testing, and instant feedback - without ever being in the actual operator's seat. This innovative solution delivers benefits throughout the training process and represents the latest technology in the diesel industries.

Questions and Answers

How is the initiative linked to the Unit Plans most recently submitted?

1. How does it continue the achievement of those goals?
2. If this is a continuation of an initiative started last year, make sure that relationship is clear.

How is this initiative linked to the efficiencies and productivities plans you had last year?

1. How does it continue the achievement of these plans?
2. If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.

This initiative was submitted for the Diesel program last year. This would enhance recruitment and strengthen pathways from high schools to the Diesel program. This hands-on virtual training system would be used for new recruitment, with emphasis on the statewide high schools.

Describe the resources needed:

Equipment
• 1 Hands-on Virtual Training System (\$50,000 each)
Request: Carl Perkins \$50,000

What specific measurable program outcomes do you expect to achieve with this initiative? The outcomes should be specific enough to be measurable. Also, outline the method that will be used to determine the results.

Faculty will review, update and publish a set of program learning outcomes and associated performance indicators to include: employability skills, shop/laboratory safety, technical expertise, ability to pass industry certifications.

Department Priority:

Unit Resources:

No unit resources available.

Funding Request: Carl Perkins

Is this a Career & Technical Education program approved by the state and offered through Lane for credit?

Yes

If not a Career & Technical Education program, does your request provide considerable support for students enrolled in these programs?

Yes

Do you have an advisory committee that meets 2-3 times per year?

Yes

If request is for personnel, will funds be used to replace an existing position?

How will funding this initiative increase or sustain the academic achievement and technical skills attainment (GPA of 2.0 or better) of Career and Technical Education students?

This request for funds to purchase hands-on virtual training system for the Diesel Technology Program. The hands-on virtual training system will be an addition to the lab training stations and will be used in all six areas of instruction. This simulator is portable and will allow us to enhance off campus recruiting efforts. The program curriculum will be designed to support the new training. The training from the station will directly enhance the student's ability to be successful in today's work environment. It will also provide an option for Automotive, Electronics, Drafting and Construction Technology students to expand their skills in the heavy-duty industry.

How will funding this initiative increase or sustain the number of CTE students that graduate or receive a one year certificate from Lane and help prepare the students for employment?

This training station will enable professional technical students in the Diesel, Automotive, Electronics, Drafting and Construction Technology programs to achieve their educational goals and technical skills in a manner that meets our industry expectations. A well-trained student will have a higher success rate, will be more productive in our community, and will support Lane Community College in the future.

EQUIPMENT \$

50000

COMPUTER HARDWARE \$

COMPUTER SOFTWARE \$

MATERIALS & SUPPLIES \$

CURRICULUM DEVELOPMENT (Hours)

PART-TIME FACULTY \$

TIMESHEET STAFF \$

TRAVEL \$

Can this initiative be partially funded?

No

EQUIPMENT \$

(E) Explanation of effect of partial funding:

COMPUTER HARDWARE \$

(CH) Explanation of effect of partial funding:

COMPUTER SOFTWARE \$

(CS) Explanation of effect of partial funding:

MATERIALS & SUPPLIES \$

(MS) Explanation of effect of partial funding:

CURRICULUM DEVELOPMENT (HOURS)

(CD) Explanation of effect of partial funding:

PART-TIME FACULTY \$

(PF) Explanation of effect of partial funding:

TIMESHEET STAFF \$

(TS) Explanation of effect of partial funding:

TRAVEL \$

(T) Explanation of effect of partial funding:

Funding Request: Curriculum Development

Funding Request: Technology Fee