Initiative Report for Adv Tech 2009-10

Diesel - Electronic Controlled Hydraulic System Training Station

Summary:

This is an electronically controlled hydraulic system which represents the current off-highway industry standards. It will be mounted on a mobile training station and will include full authority diagnostic access. This is a requirement to meet the new accreditation standards for the association of equipment distributors (AED). The current accreditation expires in 2009. If this requirement is not met by purchasing this trainer the Diesel Program will no longer be accredited by AED.

Description

This is an electronically controlled hydraulic system which represents the current off-highway industry standards. It will be mounted on a mobile training station and will include full authority diagnostic access.

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.**

Maintaining the current AED Certification.

Describe the resources needed:

Station contents to include materials to prepare the vehicle for training, hydraulic test equipment for the implement system, hydraulic test equipment for the drive system, electrical test equipment for the hydraulic implement system, electrical test equipment for the hydraulic drive system. A load system for both the hydraulic implement and drive system.

Equipment

- 1 Hydraulic System Trainer / Lab Station ($55,000 each)

Computer Hardware

- 1 Hydraulic System trainer / Lab Station Computer ($2000 each)

Computer Software

- 1 Hydraulic System trainer / Lab Station Software ($2000 each)

Materials & Supplies

- 1 Set of Technical Manuals ($1000 each)
- 1 Diagnostic fitting kit and adapters for the hydraulic system ($2000 each)
- 1 Diagnostic Cables and connectors to access the electronic control system ($1000 each)
- 1 Diagnostic data link for communication with the electronic control system ($1000 each)
- 1 Station Frame to mount trainer for use as a lab station ($1000 each)

Request: Carl Perkins (EQP) $55,000
Request: Carl Perkins (CH) $2,000
Request: Carl Perkins (CS) $2,000
Request: Carl Perkins (M&S) $6,000

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:

4

Unit Resources:

The division has no funding available for this initiative.

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?

No

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?

n/a

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?

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.

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 proposal is a request for funds to purchase a Hydraulic System trainer / Lab Station. The trainer will replace an obsolete vehicle and will be used as a training station by the students in the Diesel program in all six areas of instruction. The program curriculum will be designed to support the new training. The training from the station will directly enhance the students ability to be successful in todays work environment. It will also provide an option for Automotive, Electronics, Drafting and Construction Technology students to expand their skills to the heavy-duty industry.

EQUIPMENT $

55000

COMPUTER HARDWARE $

2000

COMPUTER SOFTWARE $

2000

MATERIALS & SUPPLIES $

6000

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