



INSTRUCTIONAL EQUIPMENT REQUEST

Due in Dean/Unit Head's Office on September 9, 2011 (FALL) and March 1, 2012 (SPRING)

Name of requestor: Scott Miner

Division/Unit: BCATSS - Welding Technology

Building location: 800/810

Brief title of request: Instructional Aid - Plasma Cutting

Request amount \$500

Copy of quote(s)/estimate(s) attached: Yes

Description of the specific equipment or materials requested:

Training aid for use in the classroom, used to teach the theory and concepts of processes applied in the welding laboratory environment. Simplified lab equipment specifically designed for classroom use. From the manufacturer of our laboratory equipment, the machines the students use. Plasma Cutting is a vital industrial process that every welding student needs to learn.

What educational programs or institutional purposes does this equipment support? Is this in your Program Review?

Yes, a Program Development form specifically notes Plasma Training equipment as a program need. Furthermore, the program review speaks specifically to the need to create a safe environment for students that meets current industrial standards.

Is it a replacement? No

Upgrade? No

New technology? Yes

How does the equipment replace, upgrade or provide new technology to the college? What do you currently have in place?

This is new training aids that have been developed by the industry in the last 3-5 years. When first developed, it was lacking in clarity and ease of use. The design has matured to a point that now it is a quality product, well refined, and clearly disseminates the information and skills needed by current students. It meets current industrial standards.

What are the estimated ongoing costs and are there potential savings?

This is a one time expense with no ongoing costs

For evaluation criteria, please see corresponding Instructional Equipment Rubric.

Instructional and Service Impact

How will this item have a positive impact on instruction and/or teaching and learning at the College?

This equipment will add capacity and quality to the instruction of all welding students. It adds a new facet to what we teach and offer a student that passes through the welding program. This equipment helps clarify and visualize what occurs in a complex, mechanized industrial process producing high velocity plasma with temperatures in excess on 10,000F.



Impact on Enrollment

Will the equipment impact enrollment capacity, increasing the number of students participating in a course or program?

This equipment will increase student learning and serve a diverse student body. This will not by itself bring more students into the class environment. It will increase current and future students success with respect to course and program SLO's.

Access

**How does this item promote the principles of universal design which provides students with diverse learning styles, multiple and flexible means of: acquiring information and knowledge; demonstrating what they know; and engaging, challenging and motivating students to learn?
How does this provide opportunities for under-represented populations?**

This equipment is capable of being used by every student in every class including ones that have disabilities and language barriers. This equipment exemplifies the "learn by doing" concept. This equipment helps simplify a difficult student learning outcomes, passing and preparing for industry standard certification tests. (Course & Program SLO)

Outcomes

How will equipment enable student learning outcomes to be achieved? What are the consequences related to learning outcomes if request is not funded?

This equipment enhances student learning outcomes.

This equipment does a great job visualizing plasma cutting process. The student will increase their chance for success, as well as completing course and program SLO's. If not funded, we will continue to use what we have to the best of our ability. We have other means to teach similar concepts on existing equipment, but not to the extent offered by this proposal.

Sustainability

What is the lifespan of requested equipment? Will it need to be replaced in 5 years? 10 years? 20 years? 10+ years or more based on classroom usage

b) Room 810 or CentralToolroom Bldg 800

c) No operating costs over the lifespan of the equipment

d) No Maintenance Required

Facility Accommodation/Maintenance

- 1) Is there sufficient current/planned space available for the storage and use of this equipment? If so, where will it be housed? If not, is there a proposed location and are there any costs associated with installation or modifications to the space?** Room 810 or CentralToolroom Bldg 800
- 2) What will be required to maintain the equipment, such as regular servicing or upkeep? Who will perform maintenance, are what will the estimated costs be?** No operating costs over the lifespan of the equipment. No Maintenance Required

Visibility/Profile within Community

Is this a "flagship" item that will bring recognition/notoriety to the College or raise the stature of the program? Will it attract students and/or enhance the image of the College in the community because of its rare, one-of-a-kind status?

While it clearly is not a "flagship" item, it would be a nice item to have increase student success and understanding of this process. It will be the only teaching aids on campus that meets the current industrial standards for plasma cutting



Leadership in Energy Efficient Design (LEED)

**Does this equipment exceed basic sustainability goals and provide renewable resources to the College?
Is the design/operation of this item in keeping with the College's commitment to sustainable practices?**

Yes, It emits no Carbon Dioxide - zero carbon footprint. It is made from materials and can be completely recycled at the end of its usable life span. It increases the lifespan of student equipment, thus decreasing the amount of waste generated within the department/campus. It is a durable good and is expected to last more than 10 years.

Signatures (required)

(If requesting computer-related equipment/software, LPC IT Department Review is **required**.)

IT Department Signature

Requested by

[Signature]
SCOTT AMNER

Dean/

Unit Head

[Signature] 3-6-12

Vice President

[Signature]
3/21/12

LPC VP Business/President

LPC Business Office Use (Account Number)

PRAXAIR PICKING TICKET

PRIGHT CHARGES	NO OF PIECES	PULLED BY

Sold by: To Place Orders call Sales
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WARNING: This assembly flammable gases and/or toxic materials in an enclosed van, automobile or automobile trunk is very dangerous because it can cause a fire or explosion resulting in serious injury or death. Read cylinder label and label on tank. Do not inhale gas or liquid from tank. Do not use for anything other than its intended purpose.

Cust # : MX451
Order # : 19456654-00
Order Date : 02/17/12
Ship Date : 02/17/12
Page : 001 OF 001

Ship to: LAS POSITAS CCD *MMS*
ATTN: WELDING DEPARTMENT
3000 CAMPUS HILL DRIVE
LIVERMORE CA 94551-7623
925-424-1137

NAME : LAS POSITAS CCD *MMS* TER: 137 SHIP VIA: CUST PICKUP -NONE- INITIALS: DDE
PO # : 01200333 SLS: 194 OTH ZONE: 64 UPS: 0 ORD TYPE: QTE
REL# : BRN: 134 COL/PPD : PPD&add TIME : 17-FEB-12 05:20PM
PHONE#: 925-424-1137 ROUTE # : CRT : TNA2972

QTY	UNIT	HW	DESCRIPTION	LINE	ITEM	LOC	QTY	QTY	BIN	WT	UNIT	EXTENDED
SHIP			& HAZARD CLASS	NO	NUMBER		ORDER	BKORD	LOC		AMOUNT	AMOUNT

***** QUOTE *****												
1	EACH		*KIT-TRAINING: PLASMA CUTTING TECH	1	HYP 050730	134-	1	0		.0	449.000	449.00
Contact Person: DAVE VIGIL 925-424-1137												
JAMES WESTON												
											Subtotal	449.00
											Tax:	39.29
											Total Sale	488.29

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Authorized Signature _____

Received by _____

DATE SHIPPED: _____

PLACARDS OFFERED:

ACCEPTED
 REJECTED

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