



## Instructional Equipment Request

### SECTION 1: SUMMARY INFORMATION

Timeframe for the Request:                      Fall: XXX                      Spring:                      Year: 2013

Name of Requestor:                      Scott Miner                      Division/ Unit: WLDT/STEMPS

Brief Title of the Request:                      LN25 Wire Feeder                      Equipment Location:                      Room 810

### SECTION 2: DESCRIPTION

Describe the specific equipment or materials requested and a brief explanation of how it will be used.  
(Please do not include cost data here.)

These are four (4) wire feeder units will expand the capability of the existing equipment in the welding lab. This equipment is also widely used in industry and students need to be familiar with its operation for joining steel for structural and pressure boundary components. This equipment offers the capability of self shielded flux core arc welding to supplement the gas shielded flux core arc welding we currently offer. More employers are looking for entry level people that possess the skills to operate this type of equipment in a field welding situation. This type of welding was used to erect the new SSA and Science additions, yet we don't have the necessary equipment to teach this technology properly.

Check one of the following:

The equipment is:                      A replacement                      An upgrade                      XXXNew equipment

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

We only have equipment to do gas shielded flux core arc welding with shop based equipment. These feeders use existing welding power sources to replicate the conditions and equipment representative of field welding applications used in steel erection and fabrication. These feeders augment existing equipment.

If request is motivated by a mandate, legal requirement or safety concern, please describe it and why it's important. Please provide any relevant documentation.

AWS D1.1 Structural Steel Welding Code requires that all structures exposed to seismic loading be welded using notch/crack resistant self shielded flux core arc welding. We live in seismic zone 4, the area capable of greatest shaking in an earthquake. ALL structures in California (and our school) must be welded with the type of welding that this equipment is designed for.

### SECTION 3: EDUCATIONAL ITEMS

Which educational programs or institutional purposes does this equipment support?

Welding Technology - Staying current with industry trends and technology  
Creating trained students to meet the demands of current industry practices.

Is this in your Program Review?                      Yes                      No

If yes, please cut and paste the appropriate wording here. If not, explain why.

The welding technology program directly supports the following components of the college mission:

- ▶ Meets the academic needs of students pursuing welding and more advanced degrees, as well as students interested in completing General Education work
- ▶ Challenges students intellect by exploring the technical aspects of welding and discovering there is more to it than just a bright light
- ▶ Prepares students for career entry and advancement as well as retraining of displaced workers
- ▶ Provides a venue to explore creativity and express that through art, while meeting the academic requirements of General Education coursework

- ▶ Prepares students to meet their personal development goals for career entry and advancement as well as retraining for a career change
- ▶ Provides the students with a good work ethic and understanding of what is expected in society and the workplace
- ▶ Partners with the local business and organizations to promote the welfare of its students and economic health of the Tri-Valley area, our State and our Nation
- ▶ Cultivates in students the willingness to adapt to change in the workplace
- ▶ Cultivates students to be engaged, responsible and productive contributing members of our community
- ▶ Cultivates in students the concept of lifelong learning and continuous improvement in everything they do

While considered state-of-the-art with first constructed in the early 80's by 2000 much of the equipment was outdated or in disrepair. Using a combination of VETA, Perkins, instructional block grant funds and measure B funds the equipment has been brought up to current industry standards again, providing students with access to state of the art equipment and applied learning.

Much has changed in our industry in the last 10+ years. Having equipment current and relevant is a critical item if the program is to be relevant and current with industry needs.

#### **SECTION 4: TEACHING AND LEARNING**

Describe in detail the impact this equipment or materials will have on teaching and learning.

Without this equipment, we cannot simulate or provide self shielded flux core arc welding. Students will leave the program without the skills required by many entry level welders.

We have many existing workers coming asking for these skills to provide advancement on the job.

The existing workers drop the classes because we dont have the equipment similar to what contractors use in the field.

Number of classes or sections (per academic year) that will be impacted: 10-15 sections per year

Will the Tri-Valley benefit from the equipment, and if so how?

The Tri Valley will have students capable of working with this process. This process is used to erect every building, school, bridge and hospital in the entire Valley and State.

#### **SECTION 5: SUSTAINABILITY**

What is the potential life span of the requested equipment?:

15-20 years if properly maintained

How does this equipment meet or exceed basic sustainability efforts and/or provide renewable resources to the college?

Please explain

All welding materials are 100% recycled. Every LEED building on this campus was built using this equipment. Steel is used in LEED structures to eliminate the use of wood content.

What will be required to maintain the equipment, such as regular servicing or upkeep? Who will perform the maintenance and are the costs included in the Finance Section?

The Staff tool room manager will maintain the equipment as he does with all the welding equipment.

Where will the equipment be used or housed? If new storage is needed, describe the storage, location and costs to provide for it. Are these costs included in the financial section?

Room 810 Welding Lab, does not need extra space

**SECTION 6: OUTCOMES**

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

The quality and process variations will expand the welding processes offered. This will increase the capability of passing industry standard certification tests. If not funded we will not have the equipment to offer this specific industrially relevant joining process.

**SECTION 7: FINANCIAL**

**Part 1**

Total amount requested: 8900

Explain the details behind the amount requested above.

Equipment or Materials:	8155	
Delivery:	0	
Installation:	0	
Facilities Modification:	0	
Sales Tax:	734	
Other:	0	
Vendor Discount (if applicable):	included	
<b>Total amount:</b>	8900	(Attach copies of quotes or estimates)

NOTE: Requests for computer related equipment must be reviewed by LPC IT Department

**IT Department Authorized Signature:** \_\_\_\_\_

In addition to the amount requested above, what ongoing costs will be incurred per year? This is trying to determine the total cost of ownership.

<b>COSTS</b>	
Upkeep and Maintenance:	\$0-50
Storage:	0
Other :	0

How will these ongoing costs be paid for? Department budget

**Part 2**

How long will this equipment last and when will it need to be replaced? When replacement is needed, how will it be paid for? (such as another IER, grant, etc.)

this equipment will last 15-20 years. replacement will be thru equipment request or industry donation

What outside sources of funding, discounts or help have you explored and what is the outcome? (items such as CTE and grants)

Wish there was more time and resources available to pursue alternate funding in a one person department

Signatures:

Lisa Cuccia  
Requestor  
for Scott Miner

Lisa Guetta  
Dean

Janice Noble 9/27/13  
Vice President

Request Approved:    Yes    No

Approved by:

<Approver>

Date Approved:

<mm/dd/yyyy>





Sep 17, 2013 3:45PM

No 0397, P. 2



**QUOTE**

Tracking Number: LPCLIN091713  
 Quote Date: \_\_\_\_\_

ALLIANCE/JANCO W/S  
 801 Alvarado Avenue  
 San Jose, CA 95128  
 408-271-3800  
 408-271-3813 (FAX)

ALLIANCE W/S  
 800 Greenville Road  
 Livermore, CA 94560  
 925-449-9355  
 925-449-9358 (FAX)

ALLIANCE/ATLAS W/S  
 1224 Sixth Street  
 Berkeley, CA 94710  
 510-824-8117  
 510-524-9098 (FAX)

ALLIANCE/CONTRA COSTA W/S  
 1135 Erlanson Road  
 Concord, CA 94520  
 925-685-8921  
 925-685-8928 (FAX)

Ship To: Las Positas College/ Welding Department  
 3000 Campus Dr.  
 Livermore Ca. 94551  
 attn: Scott Miner

Issued By: Mark Harrill

Location: Livermore

ITEM	QTY	PART #	DESCRIPTION	PRICE	EXTEND
1	4	LIN K2613-5	ea. Lincoln LN-25-PRO Wire Feeder	\$ 1,610.00	\$ 6,440.00
2	4	LIN KP1697-045C	ea. Drive Roll Kits for .045" Cored Wire	\$ 39.85	\$ 159.40
3	4	PRO PX1260-15	ea. 15' Self Shielded Wire Guns	\$ 206.00	\$ 824.00
4	4	MWP 3153545	ea. Masterweld 15', 300 Amp Gas Shielded	\$ 165.00	\$ 660.00
5			Wire Guns	\$ -	\$ -
6	4	TWE 4MPC	ea. Welding Cable Adaptors	\$ 18.00	\$ 72.00
7				\$ -	\$ -
8				\$ -	\$ -
9				\$ -	\$ -
10				\$ -	\$ -
11				\$ -	\$ -
12				\$ -	\$ -
13				\$ -	\$ -
14				\$ -	\$ -
15				\$ -	\$ -
16				\$ -	\$ -

SUB TOTAL	\$ 8,155.40
DELIVERY CHARGE	\$ -
SALES TAX	
<b>TOTAL</b>	<b>\$ 8,155.40</b>

NOTES:  
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\* This quotation is good for 30 days from the date shown above

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