

INSTRUCTIONAL EQUIPMENT REQUEST 2017-2018

Internal Use
IE #: FALL - 19
Total \$: 1,780.42

Requester Name: Scott Miner Division Name: CATSS

SECTION 1: SUMMARY INFORMATION

Brief Title of the Request:

Plasma Torch Assembly

Equipment Location Building: 800

Room: 810

Location Comments:

Welding Lab

SECTION 2: EQUIPMENT DESCRIPTION

The equipment is: A Replacement An Upgrade New Equipment/Technology

Describe the specific equipment requested and how it will be used to replace, upgrade or provide new technology to LPC from what is currently in place:

This equipment is a plasma torch to replace a worn out unit that no longer functions properly. This torch is used in conjunction with a computer controlled cutting system. The remainder of the system is not functional with out this torch assembly. The existing assemble is worn out and is no longer functioning. We have a \$10K piece of equipment idle until we can get a new torch assembly. The plasma cutting system is an automated system that also could be considered advanced manufacturing equipment.

SECTION 2: EQUIPMENT DESCRIPTION (contd)

If applicable, describe the legal requirement, mandate, or safety concern for purchase of this equipment, making specific reference to the legal requirement or regulation:

This equipment has safety in mind with its design. It is designed for ease of use and is self contained.

SECTION 3: LPC MISSION STATEMENT AND LPC PLANNING PRIORITIES

LPC MISSION STATEMENT:

LPC is an inclusive learning-centered institution providing educational opportunities and support for completion of students' transfer, degree, basic skills, career-technical, and retraining goals.

LPC PLANNING PRIORITIES:

- ❖ **Accreditation:** Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- ❖ **Curriculum:** Provide necessary institutional support for curriculum development and maintenance.
- ❖ **Tutoring Services:** Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.
- ❖ **Professional Development:** Coordinate available resources to address current and future professional development needs of faculty, classified professionals, and administrators in support of educational master plan goals.

Specify how the equipment supports *LPC's Mission Statement and Planning Priorities:*

Mission - Used to support students in the area of Career Technical Education. transfer, degree and retraining goals.

Priorities- Replacement of existing equipment provides the necessary institutional support to maintain curriculum. Meaningful course and program level SLO's can be performed using the plasma cutting system. The practice of the students in conjunction with coaching from instructors and others represents the CTE version of Tutoring.

SECTION 4: EDUCATIONAL ITEMS – PROGRAM REVIEW

Specify the educational programs this equipment supports:

Welding Technology
Engineering Technology

If this equipment is included in your Program Review, please include the exact wording. If equipment is not included, explain why:

"World Class Welding Instruction - Continuous Improvement"

"Increase the use of automation in the welding lab"

"One area of constant concern and need is to make sure that the equipment we use in all our CTE programs are safe to use and similar to that in our respective trade, so that students are prepared for the proper workplace environment"

SECTION 5: TEACHING AND LEARNING

Describe in detail the impact this equipment will have on teaching:

This machine will allow teaching of current equipment used in industry, along with advanced features, will help prepare the students for current and future careers. The controls on the plasma cutting system are simple and easy to teach a student to operate. We currently have no equipment that is able to cut out plasma parts in an automated fashion. Automation is a current trend in all aspects of manufacturing and welding.

Describe in detail the impact this equipment will have on learning:

This machine will allow learning on current equipment used in industry.
The controls are logical and easy for the students to learn and understand.
The new plasma torch assembly will compliment other machines in the welding lab.
The current machine will not function without this assembly.

Each academic year, this equipment will impact: ²⁵⁺ ____ # of classes/sections ²⁵⁰⁺ ____ # of students

SECTION 6: OUTCOMES (SLOs)

Using your documented SLOs, specify how the equipment will enable student learning outcomes to be achieved.

This equipment is used to teach automated plasma cutting, and we would need to complete COURSE level SLO's for this specifically. It could be used to complete the COURSE level SLO's with respect of "Safety in the Welding Workplace" as well as prepare materials for "Pass an industry standard welding certification test" .

This equipment could be used to complete all three of our PROGRAM level outcomes.

What are the consequences related to learning outcomes if request is not funded?

Student will continue to perform plasma cutting using manual and semiautomatic equipment. We would not be able to add SLO's in the area of automation or plasma cutting.

SECTION 7: TOTAL COST OF OWNERSHIP (FINANCIAL & SUSTAINABILITY)

What is the potential life span of the requested equipment?

The equipment on this request should last 10 years based on usage and maintenance.

If new storage is needed what are the storage requirements, location requirements, and costs associated with the new equipment: (NOTE: Specific storage costs should be detailed in the “Part A: Initial Start-up Costs” section below.)

N/A

If this equipment replaces old equipment but the old equipment will not be retired, are there on-going storage requirements, location requirements, and costs associated with the old equipment? If so, provide details.

N/A

What will be required to maintain the equipment, such as regular servicing or upkeep? (Specific on-going costs should be detailed in the "Part B: On-Going Annual Operating Costs" sections below as applicable.)

Minor occasional maintenance, should operate trouble free for years. Existing Technician supports welding lab.

Explain how this equipment meets or exceeds basic sustainability efforts and/or provides renewable resources to the college:

The equipment is made from materials that can be 100% recycled at the end of its lifespan. All old machines are 100% recycled or repurposed. All the Steel, Aluminum and Stainless Steel students use in conjunction with this equipment is 100% recycled.

Part A: Initial Start-up Costs

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Equipment or Materials	1580.29	Plasma torch with components
Taxes (9.5%)	150	
Shipping or Delivery Charge	50	estimate
Installation Costs *	0	instructor/tech install
Miscellaneous Costs:		
Facilities Modifications		
Operator Training		
Maintenance & Repair Training		
Storage		
Other:		
Vendor Discount		
Grand Total:		\$1785

*For items requiring installation, requesters are required to check with District Purchasing (Victoria Lamica) regarding District policies.

Part B: On-Going Annual Operating Costs

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Annual Service or Maintenance	0	
Estimated Parts Replacement Per Year	20	
Outside Standardization or Calibration Costs	0	
Storage Costs	0	
New Supply Costs	0	
Miscellaneous Costs:	0	
Maintenance & Repair Labor		
Other:		
Annual Operating Costs:		20

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TO: LAS POSITAS COMMUNITY COLLEGE 3000 CAMPUS HILL DR LIVERMORE CA 94551 USA Tel: 925-424-1137 Fax: 925-424-1802	QUOTE NO.: 20339473	DATE: June 09, 2017
	CUSTOMER REFERENCE NO.:	
	COUNTRY OF DEST.: USA	

Item	Part No.	Description	Qty	Price	Price Unit	Ext. Price
10	TMS-101-5000-12	1.75Ø TORCH BREAKAWAY; V-RAIL LIFTER	1.000 EA	339.8500 USD	1 EA	339.85
20	K4300-4	LC125M MACHINE PLASMA TORCH 25' (7.5m)	1.000 EA	884.0000 USD	1 EA	884.00
30	K4401-15	ACCUMOVE - FLEXCUT INTERFACE, 15 FT.	1.000 EA	82.8400 USD	1 EA	82.84
40	K4302-2	LC125M CONSUMABLE STARTER KIT	1.000 EA	223.6000 USD	1 EA	223.60
Items total						1,530.29
Shipping & Handling						50.00
Final amount						\$ 1,580.29

Notes:

Ground shipping after 10 day lead

***To submit your order:**

*By phone - For prepayment orders, please call your parts sales representative at 866-571-1066 or 775-673-2200.

*By email - To submit a hard copy Purchase Order, please email direct to your parts sales representative or to parts@torchmate.com to their attention.

*By fax - If you submit an order by fax, please allow up to 48 hours for processing.

*If the order is Urgent, please call to guarantee the fax has been received. Fax # 775-673-2206.

Prices quoted are valid for 30 days from the quoted date.

