

INSTRUCTIONAL EQUIPMENT REQUEST 2016-2017

RECEIVED

OCT 20 2016

VP ACADEMIC SERVICES
LAS POSITAS COLLEGE

Internal Use

IE #: Fall 47

Total \$: 22,869.84

Requester Name: James Weston

Division Name: CATSS

SECTION 1: SUMMARY INFORMATION

Brief Title of the Request:

Applied electrical training boards.

Equipment Location Building: 800

Room: 817

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:

We are requesting a classroom set (25) of Snap On applied electrical trainers. These Snap On applied electrical training boards will allow students to build and test automotive electrical circuits. In comparison to software-only based electrical training aids, these boards allow students to physically build the circuits and test them, which we feel is far more effective. These training boards will be a replacement for our current training boards that were donated by Toyota back in the early 1990's. Our current boards are mostly incomplete. Many are completely broken, forcing students to work in groups, as opposed to individually. These training boards will be an upgrade primarily because they work in conjunction with our Snap On digital volt-ohm meters, which are also a classroom set.

PLEASE NOTE, attached you will find a brochure describing the electrical trainers that we are asking for. If further information is needed, we also will make available a sample training board that is kept in the Building 800 tool room. Please contact James Weston to set up an appointment to view the boards.

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

None applicable.

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:

- ❖ Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- ❖ Provide necessary institutional support for curriculum development and maintenance.
- ❖ Develop processes to facilitate ongoing meaningful assessment of SLOs and integrate assessment of SLOs into college processes.
- ❖ Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.

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

Each one of the auto classes that we offer at LPC contain at least one lesson on automotive electronics. Some classes are even more electronics-intensive. With this in mind, we will be using these electronic training boards across our entire program. Purchase of these boards will support LPC's mission statement by providing educational opportunities and support for a student's career technical and career training goals.

SECTION 4: EDUCATIONAL ITEMS – PROGRAM REVIEW

Specify the educational programs this equipment supports:

Automotive Technology.

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

While this equipment is not specifically mentioned in our Program Review, we did not know that this equipment existed at the time of the Program Review's submission. We discovered this new style of electronic training board within the last 2 months, and it has instantly gone to the top of our needs list.

SECTION 5: TEACHING AND LEARNING

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

In addition to the training boards themselves, this set also includes a student manual, an instructor's guide, and a number of Power Point presentations. We believe that these additional materials will make for a more cohesive and simple to understand presentation when presenting such complex concepts that are associated with automotive electronics.

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

The biggest impact we believe these boards will have on learning comes from merely having a complete classroom set that each student will be able to use by him- or herself. As mentioned previously, these boards will also complement our already existing classroom set of Snap On digital volt-ohm meters, which we believe will also aid in learning, as students will also be able to earn a third party certification upon completion of the lessons that they can take with them when applying for jobs in the automotive industry.

Each academic year, this equipment will impact: 10/12 # of classes/sections 288 # of students

SECTION 6: OUTCOMES (SLOs)

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

As automotive electronics are an important part of every class that we offer, nearly every class has an SLO that relates to automotive electronic training. As mentioned previously, we believe purchase of these new training boards will greatly enhance our students' ability to grasp complex electronic topics. Therefore, we believe that SLO's will improve as well.

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

Students will continue to use our old, incomplete electronic training boards, forcing them to team up and work as a group with the training boards. We believe this kind of group work will have a detrimental effect on the electronics-related SLO's.

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

What is the potential life span of the requested equipment?

Our current training boards are in need of replacement, and are 25 years old. We expect these new training boards to last just as long, if not longer, because they are smaller, more robust in construction, and will be stored in tool boxes that are part of the request. These will also not go obsolete, as we expect the principles of voltage resistance and amperage not to change any time soon.

If new storage is needed, describe the storage, location, and costs: (Specific storage costs should be detailed in the "Part A: Initial Start-up Costs" section below.)

No new storage is needed. We already have a space cleared in Room 817.

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.)

No regular maintenance or servicing is needed. Any issues that should arise should be covered by Snap On's warranty.

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

While this equipment provides no direct renewable resources to the college, these boards were chosen because they are a robust quality piece of equipment that should last for decades, thus exceeding basic sustainability requirements.

Part A: Initial Start-up Costs

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Equipment or Materials	20,885.70	
Taxes (9.5%)	1,984.14	
Shipping or Delivery Charge	0.00	
Installation Costs *	0.00	
Miscellaneous Costs:	0.00	
Facilities Modifications	0.00	
Operator Training	0.00	
Maintenance & Repair Training	0.00	
Other:	0.00	
Vendor Discount		Snap On gives a substantial 40-60% off list price for schools which is already factored into the price
Grand Total:		22,869.84

Part B: On-Going Annual Operating Costs

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Annual Service or Maintenance	0.00	
Estimated Parts Replacement Per Year	0.00	
Outside Standardization or Calibration Costs	0.00	
Storage Costs	0.00	
New Supply Costs	0.00	
Miscellaneous Costs:	0.00	
Maintenance & Repair Labor	0.00	
Other:	0.00	
Annual Operating Costs:		0.00

Indicate the source of funding for on-going annual operating costs:

We have an annual maintenance and repairs budget that can cover any replacement of a trainer or two if it weren't covered under Snap On's excellent warranty offered to schools.

Part C: Incremental Labor Costs

OPERATOR:

Indicate the key operator: Automotive Faculty

Is this in their current scope of duties? YES

Indicate cost to train key operator (include in Initial Start-up Costs above): NONE

Indicate amount of time per month key operator will use equipment: 12-24 hours a semester

MAINTENANCE & REPAIRS:

Indicate the person performing maintenance and repairs: Automotive Lab Technician

Is this in their current scope of duties? YES

Indicate cost to train for maintenance and repairs: NONE

Indicate amount of time per month maintenance will be required: 0 no maintenance required

SECTION 8: APPROVALS

Funded requesters will be expected to respond to a brief RAC feedback survey by a requested deadline. Requests for computer-related equipment and printers must be reviewed by the LPC IT Department.


Signatures:


Requester


10/17/16
Date

IT Department (if required)

Date


Dean/Manager

10-20-16
Date


Vice President

10/24/16
Date



Quote

Submit To: Snap-on Industrial
 A Division of IDSC Holdings, LLC
 PO BOX 9004
 Crystal Lake, IL 60039-9004

 (877)740-1900

Number **213816** Date: 10/3/2016
 Type Quote
 Customer # 200051182 Valid Until: 12/2/2016
 Cust PO # SNA4810 Elect Trainer
 Ship Via UPS GROUND
 Terms NET 45 DAYS
 Sales Rep **014827 Bob Paredes, Phone: (916)204-4075**
 Fax/Mobile: N/A / (916)204-4075
 E-mail bob.paredes@snapon.com

Delivery To: 200051182
 LAS POSITAS COLLEGE
 ATTN: RECEIVING DEPARTMENT
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

 ATTN: James Weston

Bill To: 300868117
 CHABOT-LAS POSITAS C.C.D.
 ATTN: RECEIVING DEPARTMENT
 3000 CAMPUS HILL DRIVE
 LIVERMORE, CA 94551

Item	Description	Qty	List Price	Unit Price	Total
SNA4810	SNAP-ON ELECTIRCAL TRAINER	25	750.00	750.00	18,750.00
KRSC46HPBO	40IN FLIP LID, 6DRW RED	2	1,695.00	1,067.85	2,135.70

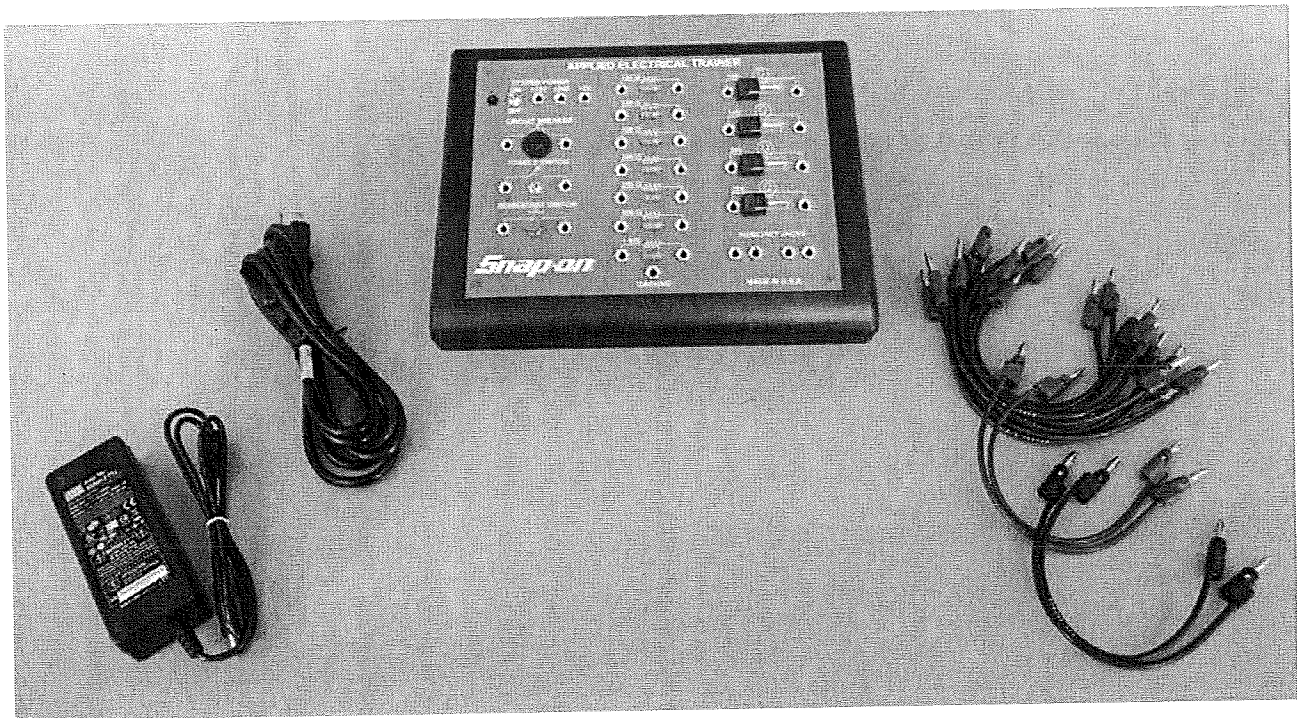
Tax and freight shown are estimates.		Total List	\$22,140.00	Sub Total	\$20,885.70
Applicable tax and freight will be charged to the Customers account.				Tax	\$1,984.14
The sale of product is subject to Snap-on Industrial's standard terms and conditions of sale. Placement of an order is Customer's assent to these terms and conditions and Snap-on hereby objects to any additional and/or different terms which may be contained in any Customer forms or other documents. No such additional terms will be of any force or effect.				Freight	\$0.00
The sale of product is subject to Customer meeting Snap-on Industrial's credit approvals. Financing through Snap-on Credit LLC is available on most purchases. Ask your Sales Rep for more information.				Total	\$22,869.84



Snap-on®

SNA4810

APPLIED ELECTRICAL TRAINER



The AET contains the following components and capabilities:

- Power Supply With Dual Voltages (12V and 5V)
- Eleven 'Loads' Including Both Resistors and Lamps
- ON/OFF Switch With Indicator Light
- Banana Jacks for Making Wire Connections
- Connector Wires in Three Colors for Building Circuits
- Auxiliary Jacks to Insert an Additional Component
- Toggle and Momentary Switches
- Two Ground Connection Points
- Circuit Breaker for Device Protection
- Courseware Including Student Manual, Instructor Guide, and presentation (.ppt) slides

Using this electrical trainer, Students can learn the areas of:

- Voltage
- Current
- Resistance
- Power
- Voltage Drop
- Series Circuits
- Parallel Circuits
- Series-Parallel Circuits
- Meter Usage Including Prefix Conversion
- Ohm's Law Voltage/Current and Resistance/Current Relationships
- Ohm's Law Value Calculations
- Diagnostic Testing

This training unit also has the flexibility to allow instructors to create their own circuits and/or tests for measurement and evaluation



Snap-on® EDUCATION



SNA4810 APPLIED ELECTRICAL TRAINER

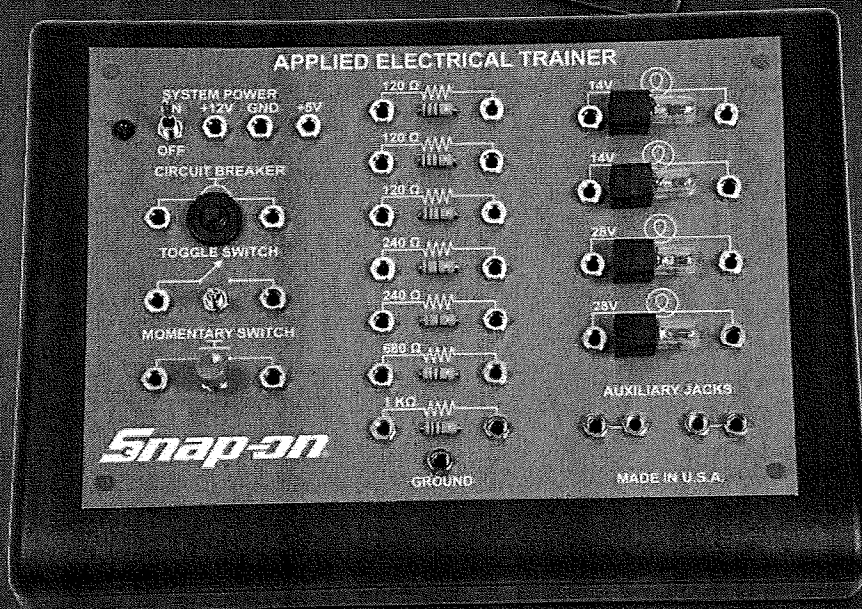


The Applied Electrical Trainer (AET)

is a self-contained training device for the study of electricity and electrical circuits.

Using this Applied Electrical Trainer, can learn the areas of:

- Voltage
- Current
- Resistance
- Power
- Voltage Drop
- Series Circuits
- Parallel Circuits
- Series-Parallel Circuits
- Meter Usage Including Prefix Conversion
- Ohm's Law Voltage / Current & Resistance / Current Relationships
- Ohm's Law Value Calculations
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- Toggle and momentary switches
- Two ground connection points
- Circuit breaker for device protection
- Courseware including student manuals and instructor guides

Snap-on

LAS POSITAS COLLEGE Equipment, Apparatus and Service Requisition

#R

FOR REIMBURSEMENT: List payee name & ssn.

TAX ID#

SUGGESTED VENDOR

DATE WRITTEN

DATE REQUIRED

DIVISION/ DEPARTMENT

FOR INVENTORY PURPOSES INCLUDE ROOM # WHERE EQUIPMENT WILL RESIDE: 808 CTR

James Weston

17-Oct-16

ASAP

Auto/CATSS

J. Weston, V. Ball

FOR OFFICE USE ONLY

RETURN COPY OF REQUISITION TO:

DESCRIPTION (PRODUCT, TYPE, SIZE, COLOR, STOCK NUMBER)

UNIT

QTY

UNIT PRICE

TOTALS

Item # SNA4810 Snap On Electrical Trainer

ea 25 \$750.00 \$ 18,750.00

Item# KRSC46HPBO 401N Flip Lid, 6DRW RED

ea 2 \$1,067.85 \$ 2,135.70

Vendor Information/ Remit To:

Deliver To, include room # (optional):

Snap On Industrial

James Weston 925-424-1137 Rm. 808

PO BOX 9004

Las Positas College

Crystal Lake, IL 60039-9004

3000 Campus Hill Drive

Sales Rep Bob Parades 916-204-4075

Livermore, CA 94551

Subtotal \$ 20,885.70

Tax \$ 0.0950 \$ 1,984.14

Shipping (if available):

TOTAL COST \$ 22,869.84

Comments:

Original invoices and receipts must be attached for payment. Include current taxes unless incorporated in price.

ACCOUNT #

FUND ORG ACCT PROGRAM

Business Office

APPROVALS

Supervisor/ Coordinator/ Director

Dean/VP/President

BT#

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