



SECTION 1: SUMMARY INFORMATION

Timeframe for the Request:	Fall: X Spring:	Year: 2013
Name of Requestor: James Weston		Division/ Unit: STEMPS/Automotive Technology
		4.0
Brief Title of the Request: Scan Tool Up	date/Upgrade	Equipment Location: 808

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.)

We are requesting the funds to purchase current year update software for two of our Automotive Diagnostic scan tools. Our OTC Genysis and Matco Determinator diagnostic scan tools are 8 and 10 years out of date respectively. A current update will allow our students to use these \$5000+, industry standard, diagnostic tools to their full potential. In addition these software updates will include hardware to allow both scan tools to diagnose and reset Tire Pressure Monitoring Systems (TPMS).

Check one of the following: The equipment is: A replacement X An upgrade New equipment

How does the equipment replace, upgrade or provide new technology to the college? What do you currently have in place? The software will upgrade two of our most versatile, powerful and user friendly diagnostic scan tools in our inventory. Currently we have in place two scanners that can only interface with vehicles model year 2005 and older, embarrassingly out of date. In addition, Tire Pressure Monitoring Systems (TPMS) are standard equipment on all cars built after 2006 and all trucks built after 2008, LPC Auto currently has no equipment to diagnose or reset Tire Pressure Monitoring Systems (TPMS). We currently borrow TPMS diagnostic and resetting equipment from the GM training program, which as you might expect is only able to diagnose GM vehicles, a big problem if a non GM vehicle has an issue with its TPMS.

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

From the California Air Resource Board (http://www.arb.ca.gov/cc/tire-pressure/tire-pressure.htm)

On September 1, 2010, the California Air Resources Board's (ARB's) Tire Pressure Regulation took effect. The purpose of this regulation is to reduce greenhouse gas emissions from vehicles operating with under inflated tires by inflating them to the recommended tire pressure rating. The regulation applies to vehicles with a gross vehicle weight rating (GVWR) of 10,000 pounds or less. Automotive service providers must meet the regulation's following requirements:

- Check and inflate each vehicle's tires to the recommended tire pressure rating, with air or nitrogen, as appropriate, at the time of
 performing any automotive maintenance or repair service.
- Indicate on the vehicle service invoice that a tire inflation service was completed and the tire pressure measurements after the service were performed.
- Perform the tire pressure service using a tire pressure gauge with a total permissible error no greater than + two (2) pounds per square inch (psi).
- Have access to a tire inflation reference that is current within three years of publication.
- Keep a copy of the service invoice for a minimum of three years, and make the vehicle service invoice available to the ARB, or its authorized representative upon request.

In California our students, when in the field, will be required by the state to be able to properly check and diagnose all issues related to tire pressure and the on board system that monitors tire pressure. We currently have no tools available to teach them how to work on TPMS'.

SECTION 3: EDUCATIONAL ITEMS

Which educational programs or institutional purposes does this equipment support?

This equipment supports the Automotive Technology departments mission of providing high quality, up to date training and equipment our students need to be competitive in the job market.

Is this in your Program Review? X Yes 🗌 No

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

A sentence from our Mission Statement...

"It is the primary purpose of the Las Positas College Automotive Department to deliver high quality up to date automotive technology training for the tri-valley."

This up to date training requires up to date equipment, these two powerful and expensive pieces of equipment are going unused because there software is woefully out of date.

SECTION 4: TEACHING AND LEARNING

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

Diagnostic scan tools are the foundation of modern automotive training and exposing students to a variety of the scan tools that they will encounter in the field is beneficial to their automotive education and critical to making them stand out when applying for a job. As the person who checks out tools and equipment to our automotive students it embarrasses me to have to tell them we don't have the proper tool to work on their car. As the software on these two scan tools get further and further out of date, they are more and more frequently left on the shelf, forcing students into larger groups having to share the few fully updated scan tools that we have. I have personally used these types of diagnostic scan tools in the field and know how powerful and user friendly they are. It is ridiculous that we have these expensive and useful leaning tools and they cant be used in many cases because they haven't been updated in 8 years.

Number of classes or sections (per academic year) that will be impacted: 7 Sections per year. As previously mentioned diagnostic scan tools are the foundation of modern automotive repair, these scan tools are used across our entire program.

Will the Tri-Valley benefit from the equipment, and if so how? Yes, to reference our mission statement again...

"It is the primary purpose of the Las Positas College Automotive Department to deliver high quality up to date automotive technology training for the tri-valley."

The majority of our students find employment within the Tri-Valley area, approximately 40%-50% of the repair shops in the Tri-Valley use this exact same diagnostic scan tool system. Our students need access to the same updated equipment they will encounter in the field in order to be able to repair the vehicles of the Tri-Valley.

SECTION 5: SUSTAINABILITY

What is the potential life span of the requested equipment? If granted this will be the last of our top of the line diagnostic scan tools that were seriously out of date when I started as toolroom manager in Summer 2011. Once all of our scanners "caught up" on software, the cost to maintain and keep them updated is far less than the cost we have had to incur to catch up. Once fully caught up we will try to update every 3 years, or as our regular budget allows.

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

Instead of replacing with a new scan tool, it is far more sensible to upgrade/update our already existing scan tools.

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?

As this is mostly a software update, there will be no additional costs for maintenance. The upgrade installation can be performed by the toolroom manager.

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? No significant extra storage space will be needed.

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?

"Obtain and interpret scan tool data" is a SLO used in nearly all of the classes in our program.

In order for our students to be able to "obtain and interpret scan tool data" we must be able to provide them with a scan tool that will interface with the car they are working on. Without updated scan tools our students will not be able to achieve one of the major SLO's used in our program.

SECTION 7: FINANCIAL

Part 1

Total amount requested: \$4720.72

Explain the details behind the amount requested above.

Equipment or Materials: Delivery: Installation: Facilities Modification:	\$4298.00 \$35.90
Sales Tax: Other: Vendor Discount (if applicable):	\$386.82
Total amount:	\$4720.72 (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.

There will be no ongoing costs related to the purchase of this update. It will however allow us to catch up and maintain our scan tool at a much more attainable cost that we can handle with our regular maintenance budget.

COSTS Upkeep and Maintenance: Storage: Other :

How will these ongoing costs be paid for?

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.)

The scan tools we are updating/upgrading will remain a relevant and widely used in industry for the next 10-15 years.

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

It has been our experience that the IER process is the most effective way to get our scan tool inventory caught up on after falling so far out of date. Most outside funding sources encourage purchasing new equipment instead of updating or upgrading.

Signatures:	<u>Dean</u> <u>Dean</u>	Vice President 9/27/13
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Request Approved: Yes No

Approved by:

<Approver>

Date Approved:

<mm/dd/yyyy>

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APPROVALS 2/2 June 2/2/13				

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