

**EQUIPMENT NEEDS ASSESSMENT APPLICATION**  
**Fall 2015**

Name of Person Submitting Request:	<b>Berchman Melancon</b>
Program or Service Area:	<b>Diesel / Transportation</b>
Division:	<b>Applied Technology, Transportation and Culinary Arts</b>
Date of Last Program Efficacy:	<b>Spring 2015</b>
What rating was given?	<b>Continuation</b>
Equipment Requested	<b>Cummins CNG (Compressed Natural Gas)</b>
Amount Requested:	<b>\$57,500.00</b>
Strategic Initiatives Addressed: (See Appendix A: <a href="http://tinyurl.com/15oqoxm">http://tinyurl.com/15oqoxm</a> )	1.11, 1.9 ,2.8.10 ,2.11 ,2.11.2 ,2.16 ,5.2 ,5.4.1 ,6.6

NOTE: To facilitate ranking by the committee, submit separate requests for each item; however, multiple items can be submitted as one request if it is required that the equipment is packaged together.

Replacement                      Additional **X**

1. Provide a rationale for your request.

San Bernardino is the only public community college in the Inland Empire that teaches EPA emission classes that cover EPA07 and EPA14 emission programs. The new technology is imperative to continue educating the local businesses and students about the importance Compressed Natural Gas (CNG) Alternative fuels, because the future of all bus transportation and school bus transportation in California is only CNG. Diesel powered engines will no longer be installed in the transportation industry of city buses and school buses in California. Also there are several rental companies like Penske, Ryder and TCI that are converting to CNG. The Advisory Committee in Fall of 2014 has requested that CNG classes be available here at SBVC. The up to date technology will allow the students to have opportunity to apply for jobs anywhere in the country, not just the inland empire. The advanced training will give students a working knowledge of the changes made to the components, systems and diagnostics of Detroit and Cummins engines which will meet California regulations. The advancement into the future technology includes engine and vehicle component changes, system changes and operation, air system, fuel system, coolant system, lubrication system, airless after-treatment operation and electronic tools and diagnostic changes. The tools needed for this training are minimal because the SBVC Diesel department has already purchased several of the tools needed which are included in other Diesel classes.

2. Indicate how the content of the latest Program Efficacy Report and current EMP data support this request. How is the request tied to program planning? (*Reference the page number(s) where the information can be found on Program Efficacy.*)

**The current EMP data for 2014 - 15 that support this request related to:**

- Department Goals:
- Increase the number of certificates awarded in the Diesel program.
- Expand customized not-for-credit training for incumbent workers.

- This 14-15 year the department hopes to purchase a Compressed Natural Gas (CNG) training module and tools needed to complete the 5 year master plan.
- Work with the SBVC District to expand highly demanded, not-for-credit training for incumbent workers that need to know about Compressed Natural Gas (CNG) engine.

3. Indicate if there is additional information you wish the committee to consider (*for example, regulatory information, compliance, updated efficiency, student success data, planning, etc.*).

Adding this instructional process and information into the Diesel 028 Heavy-Duty Truck Systems, Diesel 034 Diesel Alternative Fuels class Diesel 026 Heavy-Duty Computer Controller Diesel Engine classes will give the student an edge on the other privately owned tech colleges in the area. The training will advance the student in an area where there is a demand for service and repair of components and will tool the students for a better opportunity for a new career.

4. Evaluation of initial cost, as well as related costs (including any ongoing maintenance or updates) and identification of any alternative or ongoing funding sources (*for example Department, Budget, Perkins, Grants, etc.*).

The machine will cost average 50000.00  
Installation of exhaust pipe plumbing will cost average 5000.00  
Maintenance of 2500.00 per year for the diagnostic program and oils, and filters to maintain the engine  
Additional cost of tools will be about 1000.00

5. What are the consequences of not funding this equipment?

The Diesel Department is always looking for the support of its advisory committee which sometimes includes donations from businesses within the industrial community. This material will provide a student the education and tools needed for stronger support for when he/she adventures into the work force in search for their career goals. If this equipment id not purchased the student will only receive the video training and not the hands on training needed to support the program completely. This is not satisfactory training within the industry.

