

**EQUIPMENT NEEDS ASSESSMENT APPLICATION**  
**Fall 2016**

Name of Person Submitting Request:	<b>Tarif Halabi</b>
Program or Service Area:	<b>Aeronautics</b>
Division:	<b>Applied Technology, Trans. &amp; Culinary Arts</b>
Date of Last Program Efficacy:	<b>Spring 2016</b>
What rating was given?	<b>Conditional</b>
Equipment Requested	<b>Air Craft Mock Up Boards and Engines</b>
Amount Requested:	<b>\$72000.00</b>
Strategic Initiatives Addressed: (See <a href="http://www.valleycollege.edu/about-sbvc/office-of-president/college_planning_documents/documents/strategic-plan-report-working-doc-8-25-15-2.pdf">http://www.valleycollege.edu/about-sbvc/office-of-president/college_planning_documents/documents/strategic-plan-report-working-doc-8-25-15-2.pdf</a> )	3.2,6.1

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

Are there alternative funding sources? (for example, Department, Budget, Perkins, Grants, etc.)

Yes  NO

If yes, what are they? \_\_\_Perkins (but Miniscule)\_\_\_\_\_

1. Provide a rationale for your request. (Explain, in detail, the need for this position.)

The Aeronautics Program offers the Airframe and Powerplant (A&P Technician that prepares students for employment in the aviation Maintenance industry. The program also prepares our students to take and successfully pass The Federal Aviation Administration’s (FAA) Airframe & Powerplant Mechanic examination. The program is highly regulated by the FAA. In order to provide the students the skills and competences they need to pass the FAA test and compete for jobs in the field, existing outdated equipment in the laboratory must be upgraded. The upgrades would be in the form of mock-up boards and engines, which cover a variety of scenarios for the students; for example troubleshooting, repair and maintenance of aircraft systems and components. **The new mock-up boards are also required to align with the new practical portion of the FAA exam, which was updated on November 1 of 2015.** Nevertheless, adjunct instructors require time and pay to correlate lecture with lab projects. The work cards require re-write in-order to obtain consistency throughout the course. In the past it full time instructors were able to transition from lecture to lab seamlessly. Currently with two different instructors teaching, there is difficulty in coordinating lecture to lab transitions. Instructors require time and pay to sit down and re-write Lab sheets to coincide with lecture material.

2. Indicate how the content of the department/program's latest Efficacy Report and/or current EMP supports this request and how the request is tied to program planning. (*Directly reference the relevant information from your latest Efficacy Report and/or current EMP in your discussion.*)

To support the goals of the department, updating the instructional technology and its curriculum will help towards learning needs of the student to pass the FAA Written, Practical and oral portions of the FAA test. We have increased our relationship with industry and employee partners through advisory board meetings ,in which they have conveyed their concerns of graduates being trained on relevant equipment. As well we are upgrading our method of tracking local employer's needs. All the preceeding will enhance student success rates and increase program effectiveness as well as enrollment.

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

New practical portion of the FAA exam, which was updated on November 1 of 2015.(14 CFR 183.25)

Industry employer's request relevant training (ref. 09-22-16 aeronautics advisory meeting minutes)

Curriculum integration between lab and lecture (expected increased FAA exam scores)

4. Indicate any related costs (including any ongoing maintenance or updates) and department/program's plans to support those costs.

The estimated cost for the mock-up boards is \$68,000. No maintenance cost is needed as the mock-up boards come with troubleshooting and repair instructions .The boards are made for students to be able to repair and troubleshooting if they break down. On the other hand , curriculum development is estimated to take two semesters as each semester has its own core courses.

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

A few of the consequences of not funding this requests includes students not being prepared for the FAA mandated testing and lacking skills which employers' require of our graduates. As well, students unable to compete with other students who have acquired the same knowledge but were exposed to using updated aviation equipment.