

**Facilities
NEEDS ASSESSMENT APPLICATION**

Facilities: Programs should list no more than three facility or renovation items. Identify the area in need of physical renovation, maintenance and/or repair. Requests for additional space should also be listed here. *Requests listed in this category will be forwarded to the Facilities Committee to evaluate through their own processes.* Provide a thorough rationale, **using data to support your request**, in order to help the Facilities Committee with their evaluation. List the approximate cost of your request.

Name of Person Submitting Request:	Achala D. Chatterjee
Program or Service Area:	Welding
Division:	Applied Technology, Transportation and Culinary Arts
Date of Last Program Efficacy:	Spring 2011
What rating was given?	Continuation
Strategic Initiatives Addressed:	6.1.1 and 6.1.3

1. Renovation Request

The Welding and other Applied Technology Departments request a centrally located and installed air compressor. The attic of the Technical Building houses a central, stationary, air compressor that is over 25 years old. It has been breaking down periodically. This compressor is connected to Auto repair, Auto Collision, Electrical/Robotics, Machine Technology, Welding Lab in T121, and Aeronautics department labs. The newly moved HVAC/Refrigeration lab should also be connected to the central compressor. These departments could not operate their equipment without the use of the compressor. It is continuously on when students are in the labs. It is more economical to replace it with two new, more energy efficient compressors than to continue to fix it. By buying two, somewhat smaller compressors, reliability and efficiency will increase. Even if one compressor breaks down, we will have at least one operational. One compressor will be operational when only one or two departments are using it and another one will activate when all departments simultaneously need to use the compressors. A dryer needs to be connected to the compressor so that the pressurized air from the compressor does not emit droplets of water when used. This request supports the campus wide strategic initiatives of student success and institutional effectiveness.

Approximate Cost: \$40,000 for installation and purchase of two air compressors including air dryer

2. Renovation Request

The Welding Department requests that the existing stand-alone air compressor be replaced by connection to a new, centrally located air compressor. A fixed compressor is located inside the laboratory within the Technical Building, room number T112. This compressor is used for cutting steel. It is extremely noisy when in use and probably exceeds the noise level allowed indoors by Cal OSHA. It creates an unsafe learning environment. This lab is on the corner or

Esperanza and Eureka Avenue. Due to the location of the lab, if the compressor is located outdoors, it would probably be stolen. It would be much better to connect this lab to a central air compressor in the building (please refer to renovation request number one). Currently, there is no connection to the lab in room T112. The centrally located compressor is very old and not cost effective to draw another connection from it. If the lab was connected to a new central compressor, it would cut down on the high cost of bottled Oxy-acetylene gases that are used in the lab. It will also cut down on the cost of electricity as new compressor is more efficient than a twenty five year old compressor. Natural gas, along with the compressed air, can be used for cutting steel and other metals. This request supports the campus wide strategic initiatives of student success, institutional effectiveness, and campus climate and culture.

Approximate Cost: \$1000 to connect the welding lab (T 112) to the central air compressors.

3. Renovation Request

Approximate Cost: