

## 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:	<b>Achala D. Chatterjee</b>
Program or Service Area:	<b>Machine Trade Technology</b>
Division:	<b>Applied Technology, Transportation &amp; Cul. Art</b>
Date of Last Program Efficacy:	<b>None that I could find</b>
What rating was given?	<b>N/A</b>
Strategic Initiatives Addressed:	

Replacement  X

Growth

1. Renovation Request: Install sound proofing between welding lab and machine technology classroom.

Machine Technology computer lab is located in Room T112. This room also houses (Computer Numeric Control (CNC)) machine. Students create parts using the Solidworks software and then these part design is fed in the CNC machine which machines the metal parts. A roll up metal door connects the Machine lab and the welding lab. This roll-up door is necessary as it provides access for a forklift to enter the lab and move the large CNC machine for servicing or repair. Welding lab is very noisy due to the nature of work that goes in the lab. Need to install a noise barrier or sound proofing on the roll up door and the North wall of the classroom that adjoins the welding lab.

Approximate Cost: \$10,000

2. Renovation Request: Install drop ceiling in the machine technology classroom

Machine Technology classroom and Maintenance Mechanics Lab. Drop ceiling is not provided in this room. It is an L-shaped room with equipment located on the side and back of the room. The room is served by a very noisy air-conditioner. From April through September, the room gets very hot and it is not possible to run a class without an operating air-conditioner. For any student who sits in rows higher than 5, it is difficult to hear what the instructor is saying due to the noise of the air-conditioner and the poor acoustics. Words are lost in the voluminous ceiling space.

Approximate Cost: \$20,000

3. Renovation Request: Replace the noisy air-conditioner in the machine technology classroom

Needs Assessment Applications due by midnight on 11/1/2013. Attach 2013 EMP for your program.

- Replace or repair the noisy air-conditioner so that it is suitable for use in a lecture classroom. A lecture classroom should be conducive to learning and have a basic level of comfort is expected. A noisy classroom with poor sound quality is very distracting for the students and faculty. In summer 2013 a pilot program was launched to provide internship and industry identified relevant training. California Steel Industry, Inc. selected 10 students to participate. These students spent 24 hours/week in classroom learning skills such as blue-print reading, hydraulics, pumps, oil and lubrication, hoisting and . The students also spent 16 hours/week job shadowing at California Steel Industries, Inc. The students were then re-tested and interviewed. Three students were hired by California Steel at \$26.30/hour plus all the benefits such as dental, health care, profit sharing, uniform 401K, etc. . These students were paid \$21.45/hour, 40 hrs/week during summer. The CSI maintenance foreman and the head of HR came to the classroom several times during summer to observe the training.
- CSI foreman, Ron Petite, made the following comments in a class observation report on June 11<sup>th</sup> 2013:
  - Room air conditioner still fairly noisy. Difficult to hear other students or instructor when seated in rear of classroom
  - Instructor positions self in various locations to accommodate poor acoustics in room.”
- CSI foreman, Ron Petite, made the following comments in a class observation report on June 3<sup>rd</sup>, 2013:
  - Class room noise is excessive – air conditioner is very loud when running
  - Adjacent welding class produces constant grinding, pounding/hammering sounds
  - Noise from adjacent class rooms penetrates through walls – I could hear the instructor and students’ voices
  - If seated in rear of classroom it is difficult to hear instructor

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Approximate Cost: \$8000