



Heating & Air Conditioning Program Review 2003-2004

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FULL-TIME FACULTY:

None

PART-TIME FACULTY:

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ADVISORY COMMITTEE:

Diego DiBenedetto, Owner, Canyon Air Systems
Paul Fallat, HVAC Technician, LAUSD
Robert Helbing, Owner, Air Tro, Inc.
Ed Morales, HVAC Instructor, Harbor Occupational Center
Joy Morgan, Regional Sales Manager, Duct Sox
Ray Serrato, Supervisor, RS Air Conditioning
Hal Taylor, General Manager, Cypress Heating
Jim Toda, Conditioning Components Company

LIST OF DEGREES OFFERED:

Associate in Science in Applied Arts

LIST OF CERTIFICATES/AWARDS OFFERED:

Heating & Air Conditioning Skill award

PROGRAM DESCRIPTION

This program prepares students for entry-level work or position upgrades in the Heating and Air Conditioning industry.

MISSION

COMMENDATIONS

- a. Preparing students for careers is part of the mission of the California Community Colleges and Citrus College.

NEED

RECOMMENDATIONS

- a. Program growth is not recommended at this time, due to the larger program at a neighboring college.
- b. Students should be encouraged to visit the Job Placement office to receive help in resume writing, interviewing skills, and job placement.

COMMENDATIONS:

- a. Adjunct faculty serve the needs of the students, the industry and the community at this time.
- b. Recruitment efforts have resulted in three female enrollees in Heating and Air Conditioning in the fall 2003 semester. This level of female enrollment (3%) in this program is unprecedented at Citrus College.
- c. According to the Employment Development Department's Labor Market Information for Los Angeles County, the estimated jobs in (TOP 0945) Mechanical Technical General were 59,940 in 1999. With an estimated 68,630 jobs in this field by 2006, a net growth of 8,690 would be realized. Factoring in a projected 10,190 separations, it is estimated that 18,880 positions will need to be filled during this period in Los Angeles County alone.
- d. Faculty and advisory council members work together to place completers in jobs.
- e. Core indicator data shows that Citrus College consistently exceeds the job placement state performance standard, reaching 100% some years.
- f. Students in this program who were surveyed in the spring of 2004 indicated educational goals: 69% certificate, 29% degree, 11% transfer, and 56% job.
- g. Career opportunities are posted in the Heating and Air Conditioning lab.

QUALITY

RECOMMENDATIONS

- a. Coursework in sales for the industry could provide an excellent bridge into other relevant careers.

COMMENDATIONS

- a. Updates to the curriculum have been made to meet student needs and industry standards, including a shift from Certificate to Skill Award.
- b. Adjunct faculty maintain the lab, order supplies, and communicate needs with the director.
- c. The Citrus College Heating & Air Conditioning program hosts an annual Advisory Committee that reviews curriculum, certificates, industry standards, and labor market information.
- d. Faculty meet or exceed minimum qualifications. While students and faculty represent diverse ethnic backgrounds, a qualified female instructor is yet to be identified.
- e. Faculty are sensitive to the needs of special population students, particularly the nontraditional females who have recently enrolled in this program.
- f. 40 Certificates and Skill Awards have been issued over the past six years, with only three classes offered each semester.
- g. Class offerings always include the introductory class; other classes are rotated to ensure availability for students working toward a Skill Award.
- h. The Heating & Air Conditioning program is supported by district funding and by Vocational Technical Education Act (VTEA) allocations. VTEA funding has provided new equipment and supplies for the program, funding for faculty in-service and collaboration, and has provided outreach and support services for nontraditional students

- i. The Heating and Air Conditioning program is listed on the Employment Training Providers List (ETPL) with the regional Workforce Investment Board.
- j. Surveys from spring 2004 Heating and Air Conditioning students indicate high use of student services and satisfaction with those services and with instructional staff.
- k. District costs per FTE have gone down each year.

FEASIBILITY

RECOMMENDATIONS

- a. Tech D, the building in which all the Heating and Air Conditioning classes and labs are held, lacks a proper air conditioning and heating system, which can make learning challenging in the summer and winter. Temperature control in these rooms would provide a more appropriate learning environment. However, this building is scheduled for demolition when the new Technology building is approved.

COMMENDATIONS

- a. VTEA funds have brought the lab and the classroom in line with industry standards with regard to lab equipment and teaching aides.

COMPLIANCE

Progress has been made on prior recommendations from the 1997-1998 program review.