

**AUTOMOTIVE SERVICE TECHNOLOGY
PROGRAM ASSESSMENT RESULTS
AY03**

Results

1. Program/Discipline Mission Statement

It is the mission of the Automotive Technology Program to provide a learning centered environment that provides the student the opportunity to gain the necessary skills and competences to obtain employment in the automotive repair industry and to encourage professional work ethics.

2. Intended Learning Outcomes (3-8 of the most important competencies in your program/discipline).

After completion of this program, the student demonstrated the skills and competencies necessary to pass the National Institute for Automotive Service Excellence (ASE) Certification Exams in the areas of:

- a. Engine Repair
- b. Automatic Trans/Transaxle
- c. Manual Drive Train and Axles
- d. Suspension and Steering
- e. Brakes
- f. Electrical/Electronic Systems
- g. Heating and Air Conditioning
- h. Engine Performance

3. Outcomes assessed this year.

- a. Engine Repair
- b. Automatic Trans/Transaxle
- c. Manual Drive Train and Axles
- d. Suspension and Steering
- e. Brakes
- f. Electrical/Electronic Systems
- g. Heating and Air Conditioning
- h. Engine Performance

4. Students completing the Automotive Program were required to take an end of program exam provided by ASE that covered all of the eight (8) areas listed above. In AY03 17 students took the End of Program Exams. Compared to 8 in AY02, 7 in AY01 and 9 in AY00.

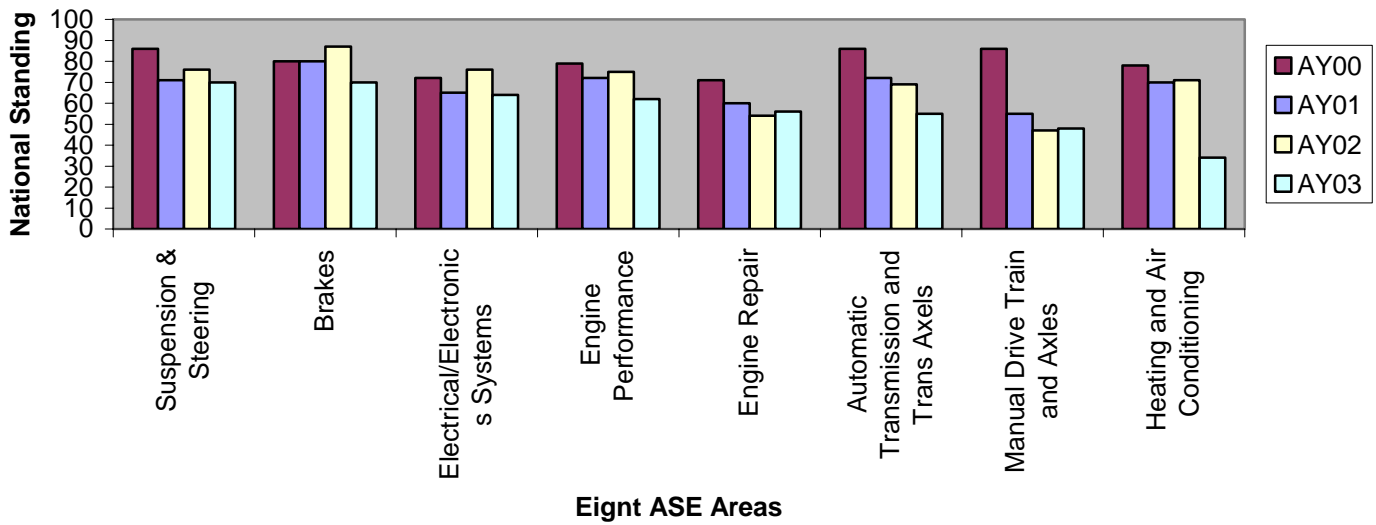
5. The results of the End of Program Exam, while meeting the stated bench mark of upper 50 percentile, have showed that the real concern is not how ACC's students fair when compared to other colleges throughout the United States, but rather the

number of students completing the program. In AY01 the department wrote and implemented a marketing plan that included recruitment and retention. Because there are so few automotive programs in high schools many students start the program not knowing if automotive service is right for them. Because of this many students take only 1 or 2 semesters then drop the program. This situation is not restricted to Colorado, but is a common condition throughout the United States. With this in mind the department focused on recruitment hoping to increase the number of students completing the program by increasing the number of students entering the program.

6. **Summary:** The results of this year's assessment, while showing lower program percentiles than previous years, demonstrate the success of the recruiting efforts started in AY01. The number of students taking the End of Program Exam in AY03 was 17 compared to 9 in AY00. This success is also evident when looking at the fall enrollments in AY01, which were 49 FTE and comparing that to the enrollments at the writing of this report, which shows AY04 fall enrollment at 84 FTE. The decrease in the programs End of Program Percentiles is of some concern in that there shows a decrease from AY00. This decrease is attributable to several factors that have been occurring since AY00. These contributing factors are the 25% decrease in department faculty, the fact that during the spring of AY03 one of the remaining regular faculty took a furlough bringing the workforce down to 50% for that semester, the 33% increase in department FTE, the difficulty in finding qualified adjunct faculty and the constant need to shift regular faculty around to cover the shortage. Probable the most important factor affecting the department's End of Program results is class size. While CCCS recommends 16 students to a class the automotive department, in an effort to increase FTE and faculty to student ratios, increased class sizes to 25 during AY02 and AY03.
7. Seeing the drop in percentile ranking last year, the department has taken several steps to improve future results. These include updating and developing curriculum, creating 2 Smart classrooms, and purchasing new multimedia. The most important change is that the classroom size was dropped from 25 to 20. This is still 56% higher than CCCS standards, but provides better training for students while helping the department gain on college imposed vocational program student to faculty ratios of 35:1.
8. This information will be shared with the Automotive Department's faculty and Advisory Committee. The department will use this information to work on and strengthen the instruction in all areas during AY04 and AY005 by decreasing class sizes and increasing efforts to find qualified adjunct faculty.

Respectfully written and submitted by
Jay Covey Automotive Department Chair

Results of ASE End of Program Tests



Program Area	2000	2001	2002	2003	2004	2005	2006
Suspension & Steering	86	71	76	70			
Brakes	80	80	87	70			
Electrical/Electronics Systems	72	65	76	64			
Engine Performance	79	72	75	62			
Engine Repair	71	60	54	56			
Automatic Transmission and Trans Axels	86	72	69	55			
Manual Drive Train and Axles	86	55	47	48			
Heating and Air Conditioning	78	70	71	34			

These values are the student average score converted to the national percentile value using the chart provided with each years results.