

Assessment Report Automotive Technology

Part I-Assessment SUMMARY (AY04)

A. 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.

B. Intended Learning Outcomes

The student demonstrates 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

C. Benchmarks

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.

(From AY04 Program Assessment Plan and Results)

D. Assessment Results

1. Current Year Data Results

No assessment data was taken at the end of AY 03-04 for comparison to past benchmarks.

2. Analysis

Since no assessment data for AY 03-04 is available, no analysis is possible. Assessment data for AY 04-05 will begin to be available during the Spring semester 2005, with early comparison being possible in the Fall semester of AY 05-06.

E. Use of Results

With no results available, any changes that will be made will be based upon other criteria, including a new assessment plan.

Part II – Assessment PLAN (AY05)

A. Intended Learning Outcomes

Intended learning outcomes same as the summary.

B. Identify Assessment Procedures/Methods

At the end of each Fall and Spring semester, each student will:

1. Take an Industry Standardized test to determine the competency of the student in the specific areas taught during that semester. These specific instructional areas are broken down by their relationship to the National Institute for Automotive Service Excellence (ASE) certifications. Each certification is given its own separate exam. The ASE areas are:
 - 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

These exams are graded by ASE and the students' scores are ranked versus all automotive students in the nation.

2. Demonstrate selected essential hands on skills learned during each of the courses taken during the semester. These skill areas are the same as the ASE skill areas listed above, and these individual tests will be given at the end of each course. The tests are timed and are performed on a actual live vehicle. These tests are graded by a rubric.

The new Assessment Procedure for AY05 differs from that in the most recent academic years in that it will assess students during and at the end of each semester completed. The new assessment plan is intended to more accurately determine if the student is learning both the theoretical classroom material as well as the hands on skills which will be needed to obtain entry level employment as an automotive repair technician. Additionally, it should be noted that the ASE tests taken by the students at the end of the semester are only given for the courses taken by the student in the semester just ended. This is a departure from the past Intended Learning Outcomes which assessed only completers of the program

C. Benchmarks

The preliminary benchmarks are:

1. 90% of the students will score on the ASE test in the 67th percentile or higher.
2. 90% of the students will score on the practical hands on test 70% or higher.