

# Assessment Report Template

## Automotive Technology

**\*An exemption was made last year and filed on behalf of Automotive Technology therefore no summary will be submitted for this year.**

### Part II – Assessment PLAN (Academic Year)

#### A. Intended Outcomes

1. The student will be able to competently diagnose and repair engines
2. The student will be able to diagnose and repair automatic transmissions and transaxles
3. The student will be able to diagnose and repair manual drive trains and axles
4. The student will be able to diagnose and repair suspension and steering systems
5. The student will be able to diagnose and repair brakes
6. The student will be able to diagnose and repair electrical/electronic systems
7. The student will be able to diagnose and repair heating and air conditioning systems
8. The student will be able to diagnose and repair driveability concerns
9. Gen Ed - Critical Thinking

#### B. Identify Assessment Procedures/Methods

1. To measure the first eight intended outcomes, the student will take an assessment test prior to enrollment to determine their knowledge of the eight ASE auto areas to establish a “baseline” of knowledge prior to starting classes. At the end of the second year of classes students will retake the same test to determine the level of improvement in their knowledge.

2. To measure the outcome of the first eight intended outcomes, the student will take an industry standardized, computerized, NATEF end of program test to determine their competency in each of the eight automotive areas. 70% of students will achieve a score of 75% or more. The areas are as follows:

- 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

*The computerized tests are provided and graded by NATEF (National Automotive Technicians Education Foundation, Inc.).*

### 3. Gen Ed - Critical Thinking

#### 1. SkillsUSA Competitions

Students participate on a district and a state level. The state competition tests the automotive students of all post secondary colleges on written and hands-on skills. Students should be able to trouble shoot and repair or assemble components on a vehicle that has been “bugged” by the judges. This involves critical thinking.

- District Level – All students will compete against other ACC students for the privilege to represent our program at the Colorado State SkillsUSA competition. The top six students will represent ACC at the state competition.
- State Level- Winners of the district contest will attend the state competition to represent ACC Auto Tech. (the state winner moves on to the national competition in Kansas City, MO)

2. “Hell Week” The last week of Engine Performance classes are designed to test the abilities of the student to diagnose and repair vehicles that are either not running well or not running at all (due to “bugging by the instructor”); to test the critical thinking techniques that they have learned during their two-years of study.

#### C. Benchmarks

- By the time the student finish and take the post test, 70% of the population will attain 75% performance for each outcome and at least a 30% improvement from their pre-test score.
- When students take the NATEF test, 70% of the population will attain 75% performance for each outcome.
- When students complete “Hell Week” 75% of the students should be able to successfully solve the driveability problems created by the instructor.

#### **HAVE YOU SUBMITTED A BUDGET WORKSHEET WITH THIS PLAN?**

YES

X NO

Please submit this report (including both parts) in a word document to Tom DeMoulin: [tom.demoulin@arapahoe.edu](mailto:tom.demoulin@arapahoe.edu). Please do not submit additional attachments. All information to be posted to the website should be included within the report.