

OSU-Okmulgee
Academic Programs Form A
ASSESSMENT REPORT FOR

Automotive Technology

(Unit)

Pro-Tech Technology

(Program Emphasis or Specialization)

A.A.S.

(Degree)

2003 – 2004

(Assessment Period Covered)

March 12, 2004

(Date Submitted)

Submitted By: Bill Voorhees and Michele Zehr

(Program Chair and Faculty)

OSU-Okmulgee
Academic Programs Form B
ASSESSMENT REPORT FOR

Auto/HEVi

(Unit)

Pro Tech

(Program Emphasis or Specialization)

2003-2004

(Assessment Period Covered)

12 March, 2004

(Date Submitted)

Expanded Statement of Institutional Purpose Linkage

Reference Institutional Mission Statement below:

OSU-Okmulgee provides comprehensive, high-quality, advancing technology programs and services to prepare and sustain a diverse student body as competitive members of a world-class workforce and contributing members of society.

Indicate Mission/Purpose of the Transportation Division and relate it to the OSU-Okmulgee Mission below:

Unit Mission: The Automotive/HEVI Division of OSU-Okmulgee prepares students to become efficient and productive entry-level automotive service, automotive collision, medium/heavy duty truck, heavy equipment, industrial equipment and mechanical/electrical diagnostic and repair technicians. This is accomplished through manufacturer and industry specific programs incorporating a combination of on-campus and off-campus educational experiences. The partners and industries served include the dealerships of Daimler Chrysler, Ford, General Motors, Nissan and Toyota: Independent Service Centers: Collision Repair Centers: selected distributors of Caterpillar, Komatsu, Freightliner, Toyota Industrial Equipment and companies serving the Natural Gas Industry.

Indicate Mission/Purpose of the Unit and relate it to the OSU-Okmulgee Mission below:

Unit Mission: The Automotive Technology Program's mission is to prepare students to become qualified technicians for defined industries and provide a firm base for continued success in their career.

Indicate Mission/Purpose of the Program of Study (Emphasis or Specialization) and relate it to the Unit Mission below:

Program/Emphasis or Specialization Mission: The Automotive Service Technology program prepares students to become professional entry-level automotive service technicians.

List Intended Program of Study Objectives to be Assessed This Year:

Core Objective 1. Effectively communicate electronically, verbally and in writing.

Core Objective 2. Demonstrate logical, systematic problem solving techniques.

Core Objective 3. Develop and display a sense of personal, social and professional work ethics.

Core Objective 4. Explain the cultural heritage and primary elements of the history and government of the U.S. and its people, especially as it impacts one's industry or field of study.

Core Objective 5. Access and use technology appropriate to one's industry or field of study.

Program Technical Objective 1. Diagnose, service and repair automotive engines as it pertains to their mechanical performance.

Program Technical Objective 2. Diagnose, service and repair automotive engines as it pertains to their fuel economy/emissions and drive-ability.

Program Technical Objective 3. Diagnose, service and repair automatic transmissions and transaxles.

Program Technical Objective 4. Diagnose, service and repair manual drive trains and axles.

Program Technical Objective 5. Diagnose, service and repair automotive steering and suspension systems.

Program Technical Objective 6. Diagnose, service and repair automotive electrical systems and electronics.

Program Technical Objective 7. Diagnose, service and repair automotive brakes.

Program Technical Objective 8. Diagnose, service and repair automotive air conditioning and heating systems.

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #1:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Core Objective 1: Effectively communicate electronically, verbally and in writing

A. First (Formative) Means of Assessment for Objective Identified Above:

1 a. Means of Program Assessment & Criteria for Success: (How is objective going to be measured and what will be considered acceptable success?)

80% of all Pro Tech graduates will demonstrate their ability to effectively communicate electronically, verbally and in writing with an accuracy of 74% (or above) by providing the following: **Technical Writing I, ENGL 1033**--Students will write an in-class essay using communications skills learned in this course. The scoring rubric is the same for all students, regardless of instructor.

Type: Formative Summative

1 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

100% of all Pro Tech students demonstrated their ability to effectively communicate electronically, verbally and in writing with an accuracy of 74% or above as evidenced by a uniformly scored in-class essay. These data were collected and reported by Technical Writing I faculty using the SCT database.

1 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

1 b. Means of Program Assessment & Criteria for Success:

80% of all Pro Tech graduates will demonstrate their ability to effectively communicate electronically, verbally and in writing with an accuracy of 74% (or above) by providing the following: **Technical Writing II, ENGL 2033:** Students will create a professional resume using communications skills learned in this course. The scoring rubric is the same for all students, regardless of instructor.

Assessment Type: Formative Summative

1 b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take ENGL 2033 during Semester IV.

1 b. Use of Results to Improve Instructional Program:

Inadequate data collected during pilot year to make program or curricular changes. Will review for program improvements with additional year of data.

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #2:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Core Objective 2: Demonstrate logical, systematic problem-solving techniques

A. First (Formative) Means of Assessment for Objective Identified Above:

2 a. Means of Program Assessment & Criteria for Success: (How is objective going to be measured and what will be considered acceptable success?)

80% of Pro Tech graduates will demonstrate their ability to perform logical, systematic problem-solving techniques by scoring 74% or higher on MATH 2003--Business Math comprehensive examination.

Type: Formative Summative

2 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Data not yet available. Fall 2003 Cohort will take MATH 2003 during Semester IV.

2 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

2 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate their ability to perform logical, systematic problem-solving techniques by scoring 74% or higher on the AUMP 2782—Advanced Automotive Diagnostics portfolio of hands-on assignments and written examinations.

Assessment Type: Formative Summative

2 b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take AUMP 2782 during Semester VI.

2 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #3:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Core Objective 3:

Develop and display a sense of personal, social and professional work ethics.

A. First (Formative) Means of Assessment for Objective Identified Above:

3 a. Means of Program Assessment & Criteria for Success: (How is objective going to be measured and what will be considered acceptable success?)

80% of all Pro Tech graduates will develop and display a sense of personal, social and professional work ethics with an accuracy of 74% (or above) by completing the required Code of Ethics Analysis assignment and reflective essay in PHIL 1213 Ethics.

Type: Formative Summative

3 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Data not yet available. Fall 2003 Cohort will take PHIL 1213 during Semester V.

3 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

3 b. Means of Program Assessment & Criteria for Success:

80% of all Pro Tech graduates will develop and display a sense of personal, social and professional work by completing AUMP 2595—Internship V with a satisfactory rating of 74% or above.

Assessment Type: Formative Summative

3 b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take AUMP 2595 during Semester V.

3 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #4:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Core Objective 4:

Explain the cultural heritage and primary elements of the history and government of the U.S. and its people, especially as it impacts one's industry or field of study.

A. First (Formative) Means of Assessment for Objective Identified Above:

4 a. Means of Program Assessment & Criteria for Success: (How is objective going to be measured and what will be considered acceptable success?)

80% of all Pro Tech graduates will demonstrate an ability to explain the cultural heritage and primary elements of the history and government of the U.S. and its people with an accuracy of 74% (or above) by completing a required comprehensive exam taken in HIST 1493-History Since 1867.

Type: Formative Summative

4 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Data not yet available. Fall 2003 Cohort will take HIST 1493 during Semester IV.

4 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

4 b. Means of Program Assessment & Criteria for Success:

80% of all Pro Tech graduates will demonstrate an ability to explain the cultural heritage and primary elements of the history and government of the U.S. and its people, especially as it impacts one's industry or field of study, with an accuracy of 74% (or above) by completing a required comprehensive exam taken in POLS 1113—U.S. Government.

Assessment Type: Formative Summative

4 b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take POLS 1113 during Semester V.

4 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #5

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Core Objective 5:

Access and use technology appropriate to one's industry or field of study.

A. First (Formative) Means of Assessment for Objective Identified Above:

5 a. Means of Program Assessment & Criteria for Success: (How is objective going to be measured and what will be considered acceptable success?)

80% of Pro Tech students will access and use technology appropriate to one's industry or field of study with an accuracy of 74% (or above) on GTIT 1133-InfoTech & Applications comprehensive exam.

Type: Formative Summative

5 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Fall 2003 Cohort took GTIT 1133 during Semester I. However, the assessment plan was still under development and this information was not collected. It will be collected beginning with the Fall 2004 Cohort.

5 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

5 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech students will access and use technology appropriate to one's industry or field of study with an accuracy of 74% (or above) on AUMP 2696—Automotive Capstone course final project.

Assessment Type: Formative Summative

5 b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take AUMP 2696 during Semester VI.

5 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #6:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 1: Demonstrate the ability to diagnose, service and repair automotive engines as it pertains to their mechanical performance.

A. First Means of Assessment for Objective Identified Above:

6a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive engines as it pertains to their mechanical performance with a proficiency of 74% (or above) on the AUMP 1051—Automotive Engines I portfolio of hands-on assignments and written examinations.

Type: Formative Summative

6 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Fall 2003 Cohort took AUMP 1051 during Semester I. However, the assessment plan was still under development and this information was not collected. It will be collected beginning with the Fall 2004 Cohort.

10 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

6 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive engines as it pertains to their mechanical performance with a proficiency of 74% (or above) on the AUMP 1052—Automotive Engines II portfolio of hands-on assignments and written examinations.

Assessment Type: Formative Summative

6 b. Description of Data Collection & Assessment Results:

Fall 2003 Cohort took AUMP 1052 during Semester I. However, the assessment plan was still under development and this information was not collected. It will be collected beginning with the Fall 2004 Cohort.

6 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #7:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 2: Demonstrate the ability to diagnose, service and repair automotive engines as it pertains to their fuel economy/emissions and drive-ability.

A. First (Formative) Means of Assessment for Objective Identified Above:

7a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive engines as it pertains to their mechanical performance with a proficiency of 74% (or above) on the AUMP 2471—Automotive Engine Performance I portfolio of hands-on assignments and written examinations.

Type: Formative Summative

7a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Data not yet available. Fall 2003 Cohort will take AUMP 2471 during Semester IV.

7a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

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B. Second (Summative) Means of Assessment for Objective Identified Above:

7b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive engines as it pertains to their mechanical performance with a proficiency of 74% (or above) on the AUMP 2472—Automotive Engine Performance II portfolio of hands-on assignments and written examinations.

Assessment Type: Formative Summative

7b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take AUMP 2472 during Semester IV.

7b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #8:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 3: Diagnose, service and repair automatic transmissions and transaxles.

A. First (Formative) Means of Assessment for Objective Identified Above:

8a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automatic transmissions and transaxles with a proficiency of 74% (or above) on AUMP 1391—Automotive Transmissions & Transaxles I portfolio of course exams and assignments.

Type: Formative Summative

8a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Data not yet available. Fall 2003 Cohort will take AUMP 1391 during Semester V.

8a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

8b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automatic transmissions and transaxles with a proficiency of 74% (or above) on AUMP 1392—Automotive Transmissions & Transaxles II portfolio of course exams and assignments.

Assessment Type: Formative Summative

8b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take AUMP 1392 during Semester V.

8b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Core Objectives

Intended Educational (Student) Objective #9:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 4: Diagnose, service and repair manual drive trains and axles.

A. First (Formative) Means of Assessment for Objective Identified Above:

9 a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair manual drive trains and axles with a proficiency of 74% (or above) on AUMP 1371—Automotive Manual Drivetrain I course exams and assignments.

Type: Formative Summative

9 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

Data not yet available. Fall 2003 Cohort will take AUMP 1371 during Semester V.

9 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

To be determined after AUMP 1371 has been completed.

B. Second (Summative) Means of Assessment for Objective Identified Above:

9 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair manual drive trains and axles with a proficiency of 74% (or above) on AUMP 1372—Automotive Manual Drivetrain II course exams and assignments.

Assessment Type: Formative Summative

9 b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take AUMP 1372 during Semester V.

9 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee
Academic Programs Form C
ASSESSMENT REPORT

Auto/HEVi

(Academic Program)

Pro Tech

(Degree Level)

2003-2004

(Assessment Period Covered)

12 March, 2004

(Date Submitted)

Intended Educational (Student) Objective #10:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 5: Diagnose, service and repair automotive steering and suspension systems.

A. First (Formative) Means of Assessment for Objective Identified Above:

10 a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair steering and suspension systems with a proficiency of 74% (or above) on AUMP 1281—Automotive Suspension & Steering I course exams and assignments.

Type: Formative Summative

10 a. Description of Data Collection & Assessment Results: (complete this section in summer after assessment results are in)

100% of Pro Tech students demonstrated their ability to diagnose, service and steering and suspension systems by scoring 74% or higher on the AUMP 1281 Automotive Suspension & Steering I course exams and assignments. These data were collected and reported by Pro Tech faculty using the SCT database.

10 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

10 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair steering and suspension systems with a proficiency of 74% (or above) on AUMP 1282—Automotive Suspension & Steering II course exams and assignments.

Assessment Type: Formative Summative

10 b. Description of Data Collection & Assessment Results:

77% of Pro Tech students demonstrated their ability to diagnose, service and steering and suspension systems by scoring 74% or higher on the AUMP 1282 Automotive Suspension & Steering II course exams and assignments. These data were collected and reported by Pro Tech faculty using the SCT database.

10 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee

Academic Programs Form C

ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #11:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 6: Diagnose, service and repair automotive electrical systems and electronics.

A. First (Formative) Means of Assessment for Objective Identified Above:

11 a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive electrical systems and electronics with a proficiency of 74% (or above) on AUMP 1072—Electrical/Electronics Training I course exams and assignments.

Type: Formative Summative

11 a. Description of Data Collection & Assessment Results: (complete this summer in spring after assessment results are in)

Fall 2003 Cohort took AUMP 1072 during Semester I. However, the assessment plan was still under development and this information was not collected. It will be collected beginning with the Fall 2004 Cohort.

11 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

11 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive electrical systems and electronics with a proficiency of 74% (or above) on AUMP 1082—Electrical/Electronics Training II course exams and assignments.

Assessment Type: Formative Summative

11 b. Description of Data Collection & Assessment Results:

Fall 2003 Cohort took AUMP 1082 during Semester I. However, the assessment plan was still under development and this information was not collected. It will be collected beginning with the Fall 2004 Cohort.

11 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee

Academic Programs Form C

ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #12:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 7: Diagnose, service and repair automotive brakes.

A. First (Formative) Means of Assessment for Objective Identified Above:

12 a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive brakes with a proficiency of 74% (or above) on AUMP 1231—Automotive Brake Systems I course exams and assignments.

Type: Formative Summative

12 a. Description of Data Collection & Assessment Results: (complete this summer in spring after assessment results are in)

73% of Pro Tech students demonstrated their ability to diagnose, service and repair automotive brakes with a proficiency of 74% (or above) on AUMP 1231—Automotive Brake Systems I course exams and assignments. These data were collected and reported by Pro Tech faculty using the SCT database.

12 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

12 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive brakes with a proficiency level of 74% (or above) on AUMP 1242—Automotive Brake Systems II course exams and assignments.

Assessment Type: Formative Summative

12 b. Description of Data Collection & Assessment Results:

57% of Pro Tech students demonstrated their ability to diagnose, service and repair automotive brakes with a proficiency level of 74% (or above) on AUMP 1242—Automotive Brake Systems II course exams and assignments. These data were collected and reported by Pro Tech faculty using the SCT database.

12 b. Use of Results to Improve Instructional Program:

OSU-Okmulgee

Academic Programs Form C

ASSESSMENT REPORT

Auto/HEVi
(Academic Program)

Pro Tech
(Degree Level)

2003-2004
(Assessment Period Covered)

12 March, 2004
(Date Submitted)

Intended Educational (Student) Objective #13:

NOTE: There should be one form C for each intended objective listed on form B. Intended objective should be restated in the box immediately below with intended objective number entered in the small blank spaces.

Program Objective 8: Diagnose, service and repair automotive air conditioning and heating systems.

A. First (Formative) Means of Assessment for Objective Identified Above:

13 a. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive air conditioning and heating systems with a proficiency of 74% (or above) on AUMP 2591—Automotive Heating & Air Conditioning I course exams and assignments.

Type: Formative Summative

13 a. Description of Data Collection & Assessment Results: (complete this summer in spring after assessment results are in)

Data not yet available. Fall 2003 Cohort will take AUMP 2591 during Semester III.

13 a. Use of Results to Improve Instructional Program: (complete in summer based on findings)

B. Second (Summative) Means of Assessment for Objective Identified Above:

13 b. Means of Program Assessment & Criteria for Success:

80% of Pro Tech graduates will demonstrate the ability to diagnose, service and repair automotive air conditioning and heating systems with a proficiency of 74% (or above) on AUMP 2592—Automotive Heating & Air Conditioning II course exams and assignments.

Assessment Type: Formative Summative

13 b. Description of Data Collection & Assessment Results:

Data not yet available. Fall 2003 Cohort will take AUMP 2592 during Semester III.

13 b. Use of Results to Improve Instructional Program: