

**Course Assessment Report
Washtenaw Community College**

Discipline	Course Number	Title
Auto Body Repair (inactive)	201	ABR 201 04/15/2019- Lightweighting Composite Repair
Division	Department	Faculty Preparer
Advanced Technologies and Public Service Careers	Automotive Body	Robert Lowing
Date of Last Filed Assessment Report		

I. Review previous assessment reports submitted for this course and provide the following information.

1. Was this course previously assessed and if so, when?

No

2. Briefly describe the results of previous assessment report(s).

3.

4. Briefly describe the Action Plan/Intended Changes from the previous report(s), when and how changes were implemented.

5.

II. Assessment Results per Student Learning Outcome

Outcome 1: Recognize and apply shop rules, procedures and safety standards associated with composite materials.

- Assessment Plan
 - Assessment Tool: Departmentally-developed tests
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All sections.
 - Number students to be assessed: All students.
 - How the assessment will be scored: Answer key

- Standard of success to be used for this assessment: 75% of students will score 80% or better.
- Who will score and analyze the data: Departmental faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2018		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
7	7

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

All students in all sections were assessed.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students in all sections met face to face for an all-day Friday class.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

We used a departmentally created test for shop rules and safety standards. Students are required to take a test until 100% is achieved. Students are given multiple attempts to pass the test with 100%. Students must pass the shop rules and safety standards test to be able to move on in the lab. Safety is very important when working with composite materials, and the students need to be very clear on the rules.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes
 The results of the data collected for this outcome showed:

All students scored 100% on the shop rules, procedures and safety test. Two students scored 100% on the second attempt.

The results showed that the students met the standard of successt of 75% of students scoring 80% or better.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

All students did extremely well with following procedures and using and wearing proper protection when working with composite material. This area is stressed really well in the beginning to make sure students are aware that safety procedures and equipment are very important when working with composite materials.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

I don't think anything needs to be changed for this learning outcome, but as equipment and materials change, the rules and equipment needs to change with them. These students have taken many classes before reaching this class and at this stage are very used to rules and safety equipment.

Outcome 2: Develop repair plans for composite materials.

- Assessment Plan
 - Assessment Tool: Repair plan checklist.
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All sections.
 - Number students to be assessed: All students.
 - How the assessment will be scored: Departmentally-developed rubric.
 - Standard of success to be used for this assessment: 75% of students will score 80% or better.
 - Who will score and analyze the data: Departmental faculty.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2018		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
7	7

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

All students in all sections were assessed.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All the students in all sections met face to face for an all-day Friday class.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

We used a departmentally created project plan. Students are required to create a project repair plan to take in account the list of materials, schedule, bleeder list, bleeder schedule and the method used to complete the part. Points are assessed for all five categories.

Project rubric:

Completed material list	10pts
Completed material schedule	10pts
Completed bleeder list	10pts
Completed bleeder schedule	10pts
Completed project (part)	10pts
Total possible	50pts

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

The results of the data collected for this outcome showed that all students did extremely well in this outcome, scoring between 93 and 100%.

All students met the standard of success of 75% of students will score 80% or better.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students performed well with developing project plans and creating the part for the project. The students had to go through each step of the plan in order to have the project come out correctly. This group did exceptionally well with documenting the plan and hands-on execution of the projects.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

A few students missed points because they didn't take the time to make sure they had the documentation filled out. This part of the class is very repetitive but necessary to make sure the part comes out as intended. I would like to come up with a planning book and guide to help make it easier to document their projects.

Outcome 3: Perform repairs to various composite materials including the application, infusion and curing of polymer resins.

- Assessment Plan
 - Assessment Tool: Student Achievement Records
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All sections.
 - Number students to be assessed: All students.
 - How the assessment will be scored: Departmentally-developed rubric.
 - Standard of success to be used for this assessment: 75% of students will score 80% or better.
 - Who will score and analyze the data: Departmental faculty.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2018		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
7	7

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

All students in all sections were assessed.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All the students in all sections met face to face for an all day Friday class.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

We used a departmentally created project plan. The material project plan requires proper materials list, schedule, bleeder list, bleeder schedule and final project.

Project and repair rubric:

Completed material list	10pts
Completed material schedule	10pts
Completed bleeder list	10pts
Completed bleeder schedule	10pts
Completed project (part)	10pts
Total possible	50pts

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

The results of the data collected for this outcome showed all students scored between 95% and 100%.

All students met the standard of success of 75% of students will score 80% or better.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students performed extremely well on this outcome. Organization, time management, execution, and use of equipment were the highlights for this outcome. This group of students was near the end of their degrees and entered this class with a lot of knowledge and hands-on experience, and by the second half of the semester they were able to really achieve well on projects.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

One thing to possibly improve would be to add a few more challenging projects near the end to see how far they can go with this class.

III. Course Summary and Intended Changes Based on Assessment Results

1. Based on the previous report's Intended Change(s) identified in Section I above, please discuss how effective the changes were in improving student learning.

2.

3. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

This course is meeting the needs of the students and industry. I think this assessment showed that the course is going down the right path and showed me areas that can be improved regarding the assessment tools and challenging the students more.

4. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

This information will be shared freely with the department before the beginning of the Fall semester and before any action plans take place.

5.

Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Assessment Tool	Outcome 2 to utilize student projects.	Outcome 2 currently has a repair plan checklist as the assessment tool and this was found to be very hard to correctly assess the information. By moving to a project plan, this would be a much better laid out process to look at the data and more clear to the students.	2019
Assessment Tool	Outcome 3 to utilize student repair projects.	Outcome 3 currently has a student achievement record that doesn't align very well with the class. In the first half of the semester, the students create project or parts, and in the second half of the semester, the students go into repair processes based on the projects or parts created. Using student repair projects would be better suited and lay out a better plan for the students to follow.	2019
Assessment Tool	Outcome 1 to reflect students	Outcome 1 needs to have an emphasis	2019

	needing to score 100% on departmentally developed safety test.	on safety before going to the lab and working with these materials. Having the students score 100% on the safety test would ensure that the students are aware and capable of following these procedures.	
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6. Is there anything that you would like to mention that was not already captured?

7.

III. Attached Files

[ABR 201 assessment data](#)

Faculty/Preparer: Robert Lowing **Date:** 07/03/2019
Department Chair: Timothy VanSchoick **Date:** 07/05/2019
Dean: Brandon Tucker **Date:** 07/08/2019
Assessment Committee Chair: Shawn Deron **Date:** 08/19/2019