

Course Assessment Report
Washtenaw Community College

Discipline	Course Number	Title
Residential Construction Technology	105	CON 105 08/15/2019-Construction Framing II
Division	Department	Faculty Preparer
Advanced Technologies and Public Service Careers	Heating, Ventilation and A/C	Cristy Lindemann
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 proper safety techniques to build a wall.

- Assessment Plan
 - Assessment Tool: Lab exercises
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All
 - Number students to be assessed: All
 - How the assessment will be scored: Departmental rubric
 - Standard of success to be used for this assessment: 80% of the students will score 80% or higher

- 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)
2015	2015, 2017	

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

# of students enrolled	# of students assessed
23	19

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.

Students missed lab time or withdrew.

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 for all classes were included in the assessment.

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

This assessment was scored using a departmentally-developed rubric including seven key tasks for students to complete on building a wall. One of the sections graded is safely building the wall. Students were scored on a 5-point scale for each task including safety.

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
 All students scored a 4 or higher. 100% of the students scored 80% or higher on the assessment question. The students surpassed the 80% will score 80% or higher standard of success.

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

This is the third class in the first certificate. Students are gaining safety knowledge and experience throughout each course. Not only do we see this on exams and for projects but also in each lab course.

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.

Initially, we needed to address safety as a number one issue for any construction work. After going through the assessment process, we found that we are not assessing other important aspects of the course. When the class is rewritten, we will focus on other aspects of the course for assessment.

Outcome 2: Recognize and apply proper safety techniques to build a roof system.

- Assessment Plan
 - Assessment Tool: Lab exercises
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All
 - Number students to be assessed: All
 - How the assessment will be scored: Departmental rubric
 - Standard of success to be used for this assessment: 80% of the students will score 80% or higher
 - 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)
2015	2017, 2015	

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

# of students enrolled	# of students assessed
23	21

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.

Student missed lab time or withdrew.

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 classes were included in the assessment.

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

A departmentally-developed rubric was used to assess students on five different tasks required to layout and cut roof rafters, ridge boards and fascia. Each task was given 0 to 5 points.

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

Out of the 21 students who built the roof, the scores were as follows:

16/21 (76%) of the students scored a 5 of 5 or 100%.

5/21 (24%) of the students scored a 4 of 5, or 80%.

100% of the students scored 80% or higher on the outcome

The standard of success was met.

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

This is the third class in the first certificate. Students are gaining safety knowledge and experience throughout each course. Not only do we see this on exams and for projects but also in each lab course.

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.

Initially, we needed to address safety as a number one issue for any construction work. After going through the assessment process, we found that we are not assessing other important aspects of the course. When the class is rewritten, we will focus on other aspects of the course for assessment.

Outcome 3: Recognize and apply proper safety techniques to install interior and exterior doors.

- Assessment Plan
 - Assessment Tool: Lab exercises
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All
 - Number students to be assessed: All
 - How the assessment will be scored: Departmental rubric
 - Standard of success to be used for this assessment: 80% of the students will score 80% or higher
 - 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)
2015	2017, 2015	

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

# of students enrolled	# of students assessed
23	19

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.

Students withdrew or did not complete the exercise.

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 classes were included in the assessment.

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

A departmentally-developed rubric was used for students to install a door. Five different tasks needed to be completed to get full points. Students were scored 0 to 5 points for installing a door.

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: <u>Yes</u>
17 of the students scored a 5 for safety.
2 of the students scored a 4 for safety.
100% of the students scored 80% or higher on installing a window safely
The outcome's standard of success was met.

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

This is the third class in the first certificate. Students are gaining safety knowledge and experience throughout each course. Not only do we see this on exams and for projects but also in each lab course.

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.

Initially, we needed to address safety as a number one issue for any construction work. After going through the assessment process, we found that we are not assessing other important aspects of the course. When the class is rewritten, we will focus on other aspects of the course for assessment.

Outcome 4: Recognize and apply proper safety techniques to install windows.

- Assessment Plan
 - Assessment Tool: Lab exercises
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All
 - Number students to be assessed: All
 - How the assessment will be scored: Departmental rubric
 - Standard of success to be used for this assessment: 80% of the students will score 80% or higher

- 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)
2015	2017, 2015	

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

# of students enrolled	# of students assessed
23	19

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.

Students missed the projects or withdrew from class.

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 were from all classes were included in the assessment.

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

A departmentally-developed rubric was used to score students. Students were given several tasks to complete the window installation, and one was installing a window safely. Students could score a 0 to 4 for each task required to install a window.

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
 18 of the students scored a 4; 95% of students scored 100%.
 1 student scored a 3; 5% of the students scored 75%.
 The standard of success was met, as more than 80% of students (94.7%) scored 80% or higher.

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

This is the third class in the first certificate. Students are gaining safety knowledge and experience throughout each course. Not only do we see this on exams and for projects but also in each lab course.

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.

Initially, we needed to address safety as a number one issue for any construction work. After going through the assessment process, we found that we are not assessing other important aspects of the course. When the class is rewritten, we will focus on other aspects of the course for assessment.

Outcome 1: Recognize and apply proper safety techniques to build a wall.

- Assessment Plan
 - Assessment Tool: Exam
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All
 - Number students to be assessed: All
 - How the assessment will be scored: Answer key
 - Standard of success to be used for this assessment: 80% of the students will score 80% or higher
 - 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)
2015	2017, 2015	

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

# of students enrolled	# of students assessed
23	23

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 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 from all classes were included in the assessment.

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

Students were scored on a 5-point scale. Students received points based on listing safety steps required for building a wall on a new construction home on the first floor.

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

21 of 23 (91%) scored a 4 or better.

91% of the students scored 80% or higher

The standard of success was met for this outcome.

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

This is the third class in the first certificate. Students are gaining safety knowledge and experience throughout each course. Not only do we see this on exams and for projects but also in each lab course.

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.

Initially, we needed to address safety as a number one issue for any construction work. After going through the assessment process, we found that we are not assessing other important aspects of the course. When the class is rewritten, we will focus on other aspects of the course for assessment.

Outcome 2: Recognize and apply proper safety techniques to build a roof system.

- Assessment Plan
 - Assessment Tool: Exam
 - Assessment Date: Winter 2020
 - Course section(s)/other population: All
 - Number students to be assessed: All
 - How the assessment will be scored: Answer key
 - Standard of success to be used for this assessment: 80% of the students will score 80% or higher
 - 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)
2015	2015, 2017	

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

# of students enrolled	# of students assessed
23	23

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.

This tool was not used for assessment.

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.

This tool was not used for assessment.

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

This question was not recorded. We do not have the required information to assess this question. Based on our other safety questions, we were assuming students would pass this assessment as well.

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

Please see the notes above.

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

This is the third class in the first certificate. Students are gaining safety knowledge and experience throughout each course. Not only do we see this on exams and for projects but also in each lab course.

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.

Initially, we needed to address safety as a number one issue for any construction work. After going through the assessment process, we found that we are not assessing other important aspects of the course. When the class is rewritten, we will focus on other aspects of the course for assessment.

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.

N/A

2. 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?

The part of the assessment that was beneficial to the department was all the instructors working together to do the assessment allowed discussion of other issues and plans we have for new course syllabi and assessments. We need to really look at the importance of each class and dig deeper into the assessment of the course to make sure we capture three things:

1 - Students can continue the program with the knowledge from this course to help them succeed.

2 - Walls and roof systems have more theory today because of code changes and energy requirements.

3 - We need to meet the needs of the industry.

Students will need more time in class than they have had in the past.

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

This report will be shared with all faculty involved in the assessment.

4. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Outcome Language	Change objectives and outcomes. Update assessment methods. Add more time to course.	1. Course outcomes were written safety-focused, need to focus on construction theory. 2. Changes in code and building process need to be introduced.	2020
Assessment Tool	Change assessment tools to meet new outcomes.	Please see above.	2020
Objectives	New objectives for changes in industry and codes.	Please see above.	2020

5. Is there anything that you would like to mention that was not already captured?

6.

III. Attached Files

Faculty/Preparer: Cristy Lindemann **Date:** 08/15/2019
Department Chair: Brian Martindale **Date:** 08/24/2019
Dean: Brandon Tucker **Date:** 09/12/2019
Assessment Committee Chair: Shawn Deron **Date:** 01/09/2020

