

Course Assessment Report  
 Washtenaw Community College

<b>Discipline</b>	<b>Course Number</b>	<b>Title</b>
Motorcycle Service Technology	140	MST 140 05/07/2014- Motorcycle Service Technology IV
<b>Division</b>	<b>Department</b>	<b>Faculty Preparer</b>
Advanced Technologies and Public Service Careers	Motorcycle Technology	Michael Shute
<b>Date of Last Filed Assessment Report</b>		

**I. Assessment Results per Student Learning Outcome**

Outcome 1: Students will demonstrate proficiency in the completion of accurate repair estimates on collision-damaged motorcycles.

- Assessment Plan
  - Assessment Tool: Written final and practical lab exams
  - Assessment Date: Winter 2010
  - Course section(s)/other population: all
  - Number students to be assessed: all
  - How the assessment will be scored: Written final exam will be scored using answer key. Practical exam will be scored using the departmentally-developed rubric
  - Standard of success to be used for this assessment: An average of 70% of the students will place at or above the intermediate level on practical lab exam. An average of 70% of the students will score 70% or higher on the written exam.
  - Who will score and analyze the data: Department member not teaching the course for that term will score the written and practical exams.

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)
2013	2014	2013

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

# of students enrolled	# of students assessed
34	34

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 who completed the final 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.

Course is taught face-to-face only.

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

This tool involves creating teams of 3 or 4. Students completely disassemble the motorcycle, including the engine and transmission. They blueprint (take precision measurements on clearances) the internal components of the engine. The team must re-assemble the bike within tolerances into perfect operating condition.

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 (teams) scored above 70% (140 of 200 points) on the assessment. Students were successful in achieving the course objectives.

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

All students were successful in writing accurate collision repair estimates.

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.

Students will need more experience using parts manuals and parts websites. Most of the parts and service manuals were written in Japanese and then translated to English. This can be challenging to students as the parts and procedures aren't always printed in a logical order.

Outcome 2: Students will demonstrate flat rate time and quality proficiency in the completion of all collision-damage repairs as per the written estimate.

- Assessment Plan
  - Assessment Tool: Written final and practical lab exams
  - Assessment Date: Winter 2010
  - Course section(s)/other population: all
  - Number students to be assessed: all
  - How the assessment will be scored: Written final exam will be scored using answer key. Practical exam will be scored using the departmentally-developed rubric.
  - Standard of success to be used for this assessment: An average of 70% of the students will place at or above the intermediate level on practical lab exam. An average of 70% of the students will score 70% or higher on the written exam.
  - Who will score and analyze the data: Department member not teaching the course that term will score the written and practical exam.

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)
2013	2014	2013

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

# of students enrolled	# of students assessed
34	34

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 who completed the final 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.

Course is taught face-to-face only.

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

This tool involves creating teams of 3 or 4. Students completely disassemble the motorcycle, including the engine and transmission. They blueprint (take precision measurements on clearances) the internal components of the engine. The team must re-assemble the bike within tolerances into perfect operating condition.

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 (teams) scored above 70% (140 of 200 points) on the assessment. Students were successful in achieving the course objectives.

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

Students were very successful in matching the flat rate time as listed in the flat rate book.

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.

None identified.

Outcome 3: The students will demonstrate time and quality proficiency in the diagnosing, rebuilding and repair of motorcycle and ATV engines.

- Assessment Plan
  - Assessment Tool: Written final and practical lab exams
  - Assessment Date: Winter 2010
  - Course section(s)/other population: all
  - Number students to be assessed: all
  - How the assessment will be scored: Written final exam will be scored using the answer key. Practical exam will be scored using the departmentally-developed rubric.
  - Standard of success to be used for this assessment: An average of 70% of the students will place at or above the intermediate level on practical lab exam. An average of 70% of the students will score 70% or higher on the written exam.

- o Who will score and analyze the data: Department member not teaching the course that term will score the written and practical exams.

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)
2013	2014	2013

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

# of students enrolled	# of students assessed
34	34

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 who completed the final 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.

Course is taught face-to-face only.

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

This tool involves creating teams of 3 or 4. Students completely disassemble the motorcycle, including the engine and transmission. They blueprint (take precision measurements on clearances) the internal components of the engine. The team must re-assemble the bike within tolerances into perfect operating condition.

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 (teams) scored above 70% (140 of 200 points) on the assessment. Students were successful in achieving the course objectives.

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

Students did well with the precision measuring section. Students had to

disassemble a running motorcycle engine, measure all the internal components and determine if all the parts were usable or needed to be replaced.

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.

Students had the most difficulty understanding and reproducing diagrams of the engine oiling system.

## II. Course Summary and Action Plans Based on Assessment Results

1. 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?

Students excelled in identifying engine component life based on service manual specifications and measurements taken using precision measurement tools.

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

Departmental faculty meeting

3. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
No changes intended.			

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

## III. Attached Files

MST 140 data

<b>Faculty/Preparer:</b>	Michael Shute	<b>Date:</b> 05/07/2014
<b>Department Chair:</b>	Shawn Deron	<b>Date:</b> 05/15/2014
<b>Dean:</b>	Marilyn Donham	<b>Date:</b> 05/19/2014
<b>Assessment Committee Chair:</b>	Michelle Garey	<b>Date:</b> 10/16/2014