Discipline	Course Number	Title
Motorcycle Service Technology	220	MST 220 03/31/2016- Dynamometer Operations
Division	Department	Faculty Preparer
Advanced Technologies and Public Service Careers	Motorcycle Technology	Mark Daily
Date of Last Filed Assessment Report		

I. Assessment Results per Student Learning Outcome

Outcome 1: Students will demonstrate time and quality proficiency in the safe operation of a load control dynamometer.

- Assessment Plan

    o Assessment Tool: Final and Practical Lab Exams

    o Assessment Date: Winter 2010

    o Course section(s)/other population: all

    o Number students to be assessed: all

    o How the assessment will be scored:

    o Standard of success to be used for this assessment:

    o Who will score and analyze the data:

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	

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

# of students enrolled	# of students assessed
10	9

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.

> 9 out of 10 students enrolled were assessed. One student withdrew from the class 2/3rds into the semester.

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 course can only be taught on campus. All students assessed met in the morning.

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

> The assessment tool is a skills checklist for safety. Students are assessed 2 times per semester using a student skills checklist. There are 50 total points for the safety skills checklist. In order to achieve the standard of success, 70% of students will earn a score of at least 35 out of 50 possible 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: <u>Yes</u>
>
> In reviewing the final and practical lab exam data, 90% of the students scored higher than 70% on their first checklist. On the final checklist 70% of the students scored 70% or higher.
>
> The students had to execute 7 different tasks. Students performed these tasks based on discussions and demonstrations.
>
> It was discovered that students met a higher success rate at the midpoint of the semester and then struggled more by the end of the semester.

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

> It appears that the students had the best understanding of the outcome by the middle of the semester.

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.

> It appears that reviewing may be implemented at higher rate after the midpoint of the semester to promote retention of the outcome.

Outcome 2: Students will demonstrate time and quality proficiency in the use of a load control dynamometer as a diagnostic, data acquisition, and tuning tool.

- Assessment Plan

  - o Assessment Tool: Final and Practical Lab Exams

  - o Assessment Date: Winter 2010

  - o Course section(s)/other population: all

  - o Number students to be assessed: all

  - o How the assessment will be scored:

  - o Standard of success to be used for this assessment:

  - o Who will score and analyze the data:

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	

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

# of students enrolled	# of students assessed
10	9

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.

9 out of 10 students enrolled were assessed. One student withdrew from the class 2/3rds into the semester.

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 course can only be taught on campus. All students assessed met in the morning.

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

> The assessment tool is a final exam that includes a written component as well as a practical exam. The standard of success is 70% of students will earn 70% or higher on the final exam.

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>
>
> In reviewing the final exam, the data showed that 70% of students scored 70% or higher.
>
> 35 questions from the final exam were targeted for review. The students had to execute 10 different tasks. 80% of the questions were answered correctly by 100% of the students. On the practical portion of the exam, 78% of the students scored at 70% or higher.
>
> All of the students met the standard of success, but the data showed that the practical portion of the exam had a lower success rate than the written portion.

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

> The strengths were the written portion of the assessment tool.

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.

> Although the students met the standard of success, it was found that the students scored lower on the practical checklist portion of the final exam. Plans for improvement include allocating more time during the semester for students to practice the skills required for success.

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?

> The evaluation of the course revealed to me that while it meets the needs of the students, the students' retention tapered off after the middle of the semester.

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

The assessment results will be shared at our departmental meeting.

3.

Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Outcome Language	Narrow the scope of the outcomes. For example, outcome number two has the faculty assessing the students on five different skills wrapped up in a single outcome. I feel that better outcomes can be developed.	Using the current outcomes, it is impossible to accurately assess the students success because the outcomes are too broad. See note provided above about current outcome number two.	2018

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

5.

III. Attached Files

mst 220

Faculty/Preparer:	Mark Daily	**Date:**	08/02/2017
Department Chair:	Shawn Deron	**Date:**	08/09/2017
Dean:	Brandon Tucker	**Date:**	08/20/2017
Assessment Committee Chair:	Michelle Garey	**Date:**	10/30/2017