SUNY CANTON

Powersports Performance and Repair
Canino School of Engineering Technology
Fall 2015 Assessment Report

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Student learning outcomes list:

- **MSPT SO 1- Diagnose and Repair**
  - *Test the ability to diagnose and repair electronic management problems related to Powersports vehicles.*
- **MSPT SO 2- Mathematical and Analytical Thinking Skills**
  - *Develop mathematical and analytical thinking skills necessary to perform both electrical and engine measurement calculations.*
- **MSPT SO 3- Communication Skills**
  - *Demonstrate effective written and verbal communication skills.*
- **MSPT SO 4- Skill Mastery**
  - *Create opportunity to master techniques, skills, and modern tools used in the Powersports industry.*

Program to Course SLO Mapping:

- **MSPT SO 1**
  - *AUTO 114: Outcomes 3,4,5, and 6*
  - *AUTO 122: Outcomes 1 and 2*
  - *MSPT 110: Outcomes 3 and 6*
- **MSPT SO 2**
  - *AUTO 122: Outcomes 1,2, and 3*
  - *MSPT 101: Outcomes 1 and 3*
  - *MSPT 110: Outcomes 1,2,3,4,5, and 6*
- **MSPT SO 3**
  - *MSPT 101: Outcome 3*
  - *MSPT 120: Outcome 3*
- **MSPT SO 4**
  - *MSPT 110: Outcomes 1,4, and 6*
  - *MSPT 130: Outcomes 1,2, and 3*

How was the assessment accomplished?

- Student work assessed:
  - Tests and quizzes
  - Lab reports and worksheets
- Measurement strategy:
  - Percentage of correct answers on quizzes, tests, and worksheets
  - Rubric for lab reports
- Sample size:
  - All students attending class. (10-17 students)
- Program goals

Actual assessment data

MSPT SO 1			
Course	**Outcome**	**Target**	**Finding**
AUTO 122	A122.1	70% of students will achieve 70% or better on series and parallel worksheets	Met
	A122.2	70% of students will achieve 70% or better on series and parallel worksheets	Met
AUTO 114		Not Taught	
MSPT 110		Not Taught	

Actual assessment data cont.

MSPT SO 2			
Course	**Outcome**	**Target**	**Finding**
AUTO 122	A122.1	70% of students will achieve 70% or better on series and parallel worksheets	Met
	A122.2	70% of students will achieve 70% or better on series and parallel worksheets	Met
	A122.3	70% of students will achieve 70% or better for their overall lab activity grade	Met
MSPT 101	1	70% of students will achieve 70% or better for their overall lab activity grade	Met
	3	70% of students will achieve 70% or better for their overall lab activity grade	Met
MSPT 110		Not Taught	

Actual assessment data cont.

MSPT SO 3			
Course	**Outcome**	**Target**	**Finding**
MSPT 101	3	70% of students will achieve 70% or better for their overall lab activity grade	Met
MSPT 120		Not Taught	

Actual assessment data cont.

MSPT SO 4			
Course	**Outcome**	**Target**	**Finding**
MSPT 130	1	70% of students will achieve 70% or better for their overall lab activity grade	Met
	2	70% of students will achieve 70% or better on the test of marine propulsion systems	Met
	3	70% of students will achieve 70% or better on their drive unit rebuild lab reports	Met
MSPT 110		Not Taught	

Assessment of Program Goals

Program goals

- Program Enrollment- Achieve program enrollment of 32 students
  - Approx. 20 students for Fall 2015
  - 3 Fall 2015 graduates
  - 7 students enrolled for Spring 2016
- Corporate Sponsorships- Sustain current and gain new corporate sponsorships
  - Consistent Polaris partnership
  - Yamaha marine engine donations- need technical reference materials
  - In search of new partners/ sponsors for a more rounded industry experience
    - Looking for equipment, technical manuals, and advisory board members

Assessment of Program Goals cont.

- Graduation Rate- Maintain graduation rate of 80%
  - To be determined (Approximate projection of 50%)
- Grant Writing- Increase external funding for program
  - None at this time

Assessment results

- The program is able to meet it's outcome targets with the current class size.
- We need to increase enrollment
- Fall to Spring retention is low
- We need an advisory board
- MSPT SO 1 needs to be revised
  - It only focuses on electrical diagnostics

Data-driven decisions

- Individual faculty time to work on recruiting strategies.
- An advisory board needs to be set-up to give direction on
  - Student retention
  - Sustaining and increasing industry connections
  - Keeping current with industry needs and practices
- Individual faculty time to work on revising program and course outcomes and mapping.

What resources were used or have been requested to close the loop?

- Program pamphlets
- Advertising at trade shows and events
- Yamaha marine service information