

Assessment Impact by Course Objectives
Palau Community College
Department (MA) - Mathematics Department

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CLO: MA 101 - Math for Mechanics: CLO 1 (Fall 2015)

Students will be able to calculate business profits, loans, payrolls, and tax payments.

Start Date: 12/21/2015
CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Calculate business profits, loans, payrolls, and tax payments. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Midterm Exam - 01/27/2016 - 80% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: MA-101 clo 1 & 2 fall 2015.pdf	01/27/2016 - CLO #1: Actual results: 8 out of 10 students are proficient; 6 are competent and 2 are highly competent. Therefore, 80% of the students assessed passed the knowledge test. Analyzed results: The students have good foundation in calculating business profit, loan interest and payments, payroll, and taxes payments. Recommendations: Success for this CLO can be improved by; 1.) Having perfect attendance and punctuality is totally adapted and implemented by the teacher and students. 2.) Having calculator and text book on first week of the semester. Actions Plan: 1.) Text book and calculator must be purchase on first week of the semester before the semester starts. 2.) Attendance and punctually must be strictly implemented when the semesters start.		2015-2016 (Fall 2015)

CLO: MA 101 - Math for Mechanics: CLO 2 (Fall 2015)

Students will be able to perform job estimates.

Start Date: 12/21/2015
CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Calculate an estimated cost for different types of jobs. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Midterm Exam - 01/27/2016 - 30% of the students assessed performed at the proficiency level Expected Student Performance Met: No Related Documents: MA-101 clo 1 & 2 fall 2015.pdf	01/27/2016 - CLO #2: Actual results: 3 out of 10 students are proficient; 3 are competent and none is highly competent. Therefore, 30% of the students assessed passed the knowledge test. Analyzed results: Privation on grasping the concepts of job estimate makes their work complicated. Recommendations: Success for this CLO can be improved by; 1.) Helping the students to make job estimates on their free time at AM shop with the assistant instructor or LRC instructors. 2.) Using the correct form from other companies to familiarize labor and parts costing will the students to improve. Action Plan: 1.) Students must see their LRC instructor to help them improve. 2.) Print different types of Job order sheet before August 2016.		2015-2016 (Fall 2015)

CLO: MA 101 - Math for Mechanics: CLO 3 (Fall 2015)

Students will be able to perform mensuration and calculation.

Start Date: 12/21/2015
CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate skills in mensuration and calculation. Signature assignment: Skill Sheet	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Skill Sheet - 01/06/2016 - CLO #3: 60% of the students assessed performed at the proficiency level Expected Student Performance Met: No Related Documents: MA-101 clo #3 fall 2015.pdf	01/06/2016 - CLO #3: Actual results: 6 out of 10 students are proficient; 6 are competent and none is highly competent. Therefore, 60% of the students assessed passed the skills test. Analyzed results: Precision tools familiarization and constant usage will help the students to improve their skills on measurement. Recommendations: Success for this CLO can be improved by; 1.) Helping the students to used precision tools on their free time. 2.) Procuring more precision help the students to learn at their pace. Actions Plan: 1.) Print hand-out before August 2016. 2.) Hire MA-101 assistant instructor before August 2016. 3.) Procure precision tools before August 2016.		2015-2016 (Fall 2015)

CLO: MA 101 - Math for Mechanics: CLO 4 (Fall 2015)

Students will be able to calculate the numerical relationship and determine the effect on engine output.

Start Date: 12/21/2015
CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Calculate the numerical relationship and determine the effect on engine output. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 01/06/2016 - CLO #4: 40% of the students assessed performed at the proficiency level.	01/06/2016 - CLO #4: Actual results: 4 out of 10 students are proficient; one is competent and three are highly competent. Therefore, 40% of the students assessed passed the knowledge test.		2015-2016 (Fall 2015)
Expected Student Performance Met: No	Analyzed results: Privation on applying the correct formula on determining engine output, torque, and engine displacement.		
Related Documents: MA-101 clo 4 & 5 fall 2015.pdf	Recommendations: Success for this CLO can be improved by;		
	1.) Helping the students to experience measuring engine displacement in actual situation using the formulas for engine, will them to improve.		
	2.) Printing MA-101 formulas will help the students to easily access and identify the correct formulas.		
	Actions Plan: 1.) Print hand-out before August 2016. 2.) Hire MA-101 assistant instructor before August 2016. 3.) Procure precision tools before August 2016.		

CLO: MA 101 - Math for Mechanics: CLO 5 (Fall 2015)

Students will be able to solve problems related to the drive train system using mathematical formulas and equations.

Start Date: 12/21/2015

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate skills in solving problems related to the drive train system using mathematical formulas and equations. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 01/06/2016 - CLO #5: 30% of the students assessed performed at the proficiency level	01/06/2016 - CLO #5: Actual results: 3 out of 10 students are proficient; one is competent and 2 are highly competent. Therefore, 30% of the students assessed passed the knowledge		2015-2016 (Fall 2015)
Expected Student Performance Met: No			

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Related Documents: MA-101 clo 4 & 5 fall 2015.pdf	test. Analyzed results: Knowledge retention is very low. Privation on applying the correct formula for drive train system will affects their calculations. Recommendations: Success for this CLO can be improved by; 1.) Providing the hand-out help the students to identify the correct applications 2.) Hire assistant instructor before August 2016. Actions Plan: 1.) Print hand-out before August 2016. 2.) Hire MA-101 assistant instructor before August 2016.		

CLO: MA 101 - Math for Mechanics: CLO 1

Calculate repair costs, discounts, interest and payment amounts, business/profit and employee commissions, and tax payments.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Inactive Date: 12/21/2015

CLO Status: Inactive

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Calculate repair costs, discounts, interest and payment amounts, business/profit and employee commissions, and tax payments. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Calculate repair costs, discounts, interest and payment amounts, business/profit and employee commissions, and tax payments. Signature assignment: Practical Application Skill Test	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/25/2014 - 50% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: MA-101 scan clo 2 fall 2014.pdf	12/25/2014 - Establish a placement test in the first day of class (this will determine if the student possess the basic skills in math); students who don't have skills in basic Math must be send to their Advisor, and the Advisor must find a way to help the students to learn, and when the student establish		2014 - 2015 (Fall 2014)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	their skills in basic Math the Advisor will recommend for enrollment. The LRC department can help the students to learn in basic math.		

CLO: MA 101 - Math for Mechanics: CLO 2

Perform mensuration and calculation to solve engine mechanical problem.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Inactive Date: 12/21/2015

CLO Status: Inactive

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Perform mensuration and calculation to solve engine mechanical problem. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Perform mensuration and calculation to solve engine mechanical problem. Signature assignment: Practical Application Skill Test	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Practical Application Skill Test - 12/25/2014 - 80% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: MA-101 scan clo 2 fall 2014.pdf	12/25/2014 - Establish more tools to accurately measure engine mechanical components.		2014 - 2015 (Fall 2014)

CLO: MA 101 - Math for Mechanics: CLO 3

Determine repair labor and time costs, business overhead, business profit and loss amounts, and complete a repair order.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Inactive Date: 12/21/2015

CLO Status: Inactive

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Determine repair labor and time costs, business overhead, business profit and loss amounts, and complete a repair order. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Determine repair labor and time costs, business overhead, business profit and loss amounts, and complete a repair order. Signature assignment: Practical Application Skill Test	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/25/2014 - 40% of the students assessed perform at the proficiency level. Expected Student Performance Met: No Related Documents: MA-101 scan clo 3 fall 2014.pdf	12/25/2014 - Establish more Job order sheet to help students learn and familiarize to fill-up and calculate the concurred taxes, discounts, the applied amount.		2014 - 2015 (Fall 2014)

CLO: MA 101 - Math for Mechanics: CLO 4

Calculate the numerical relationship and determine the effect on engine output.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Inactive Date: 12/21/2015

CLO Status: Inactive

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Calculate the numerical relationship and determine the effect on engine output. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Calculate the numerical relationship and determine the effect on engine output. Signature assignment: Practical Application Skill Test	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/25/2014 - 80% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: MA-101 scan clo 4 & 5 fall 2014.pdf	12/25/2014 - Establish posters formulas, and bulletin for engine measurement to help students learn on determining engine power output and things that influence to increase or decrease the output of engine.		2014 - 2015 (Fall 2014)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed

CLO: MA 101 - Math for Mechanics: CLO 5

Solve high fuel consumption problems that correlates to drive train system.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Inactive Date: 12/21/2015

CLO Status: Inactive

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Solve a high consumption problem that correlates to drive train system. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Solve a high consumption problem that correlates to drive train system. Signature assignment: Practical Application Skill Test	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/25/2014 - 70% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: MA-101 scan clo 4 & 5 fall 2014.pdf	12/25/2014 - Establish posters for drive train ratios, and formulas in determining the effectiveness of drive train components to help students learn on solving high fuel consumption problems that correlates to drive train system.		2014 - 2015 (Fall 2014)