

Assessment Impact by Course Objectives  
Palau Community College  
Program (AM) - Automotive Mechanics Technology

**Program (AM) - Automotive Mechanics Technology**

**CLO: AM 111 - Basic Automotive Maintenance: CLO 1**

Perform Suspension System Servicing

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate knowledge of suspension system components and identify worn or defective parts. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Analyze suspension part wear, remove, and replace suspension parts with proper bolt tightening procedures and in the right sequence. <b>Signature assignment:</b> 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 - 12/30/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2015.pdf</a>	12/30/2015 - Actual results: 2 out of 2 students are proficient; 1 is competent and 1 is highly competent. Therefore, 100% of the students assessed passed the skills assessment.  Analyzed results: Students are good in skills demonstration. But poor in knowing component specifications.  Recommendations: Course success can be improved by;  1.) Adding more mock-ups for CLO #1 (to have more laboratory hands-on practice and to enhance servicing technique). 2.) Adding repair manuals (for reference in specification of engine system and components). 3.) Filming every laboratory activities to review their laboratory performance and techniques.  Action Plan: 1.) Produce additional mock-ups, before December 2015.		2015-2016 (Fall 2015)

## Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>2.) Purchase repair manuals (e-copy and/or in-print) December 2015.</p> <p>3.) Purchase video cam and automotive technology DVD movies before December 2016.</p>		
<p>Final Exam - 12/30/2015 - 50% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> No</p> <p><b>Related Documents:</b> <a href="#">AM-111 knowledge clo 1, 2, &amp; 3 fall 2015.pdf</a></p>	<p>12/30/2015 - Actual results: 1 out of 2 students are proficient; none is highly competent. Therefore, 29.4% of the students assessed passed the knowledge test.</p> <p>Analyzed results: The students have problems on naming parts and components. Therefore, grasping the concepts of suspension system is obviously affected.</p> <p>Recommendations: Course success can be improved by; 1.) Viewing the videos of suspension system to help the students understand the principles of operation and concepts. 2.) Adding repair manuals to help the students know the concepts of suspension system, parts functions, and sequence.</p> <p>Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2016. 2.) Purchase a DVD movie that correlates to servicing suspension system before December 2016. Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (fall 2016). 1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #1; students are encourage to come in the shop on their free time for knowledge and skills enhancement. 2.) Auto club will offer car servicing (the students approved by Federal Work study will be employed in Auto Club). 3.) Set-up work stations for all the CLOs of AM-111 4.) Set-up film viewing 5.) Conduct in-house Skills Olympic</p>		2015-2016 (Fall 2015)
<p>Skill Sheet - 12/20/2014 - 90% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> Yes</p>	<p>12/20/2014 - Invite walk-in customers by giving them promo coupons for free labor charge in servicing suspension system; this will help PCC students to experience in servicing suspension system.</p>		2014 - 2015 (Fall 2014)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2014.pdf</a>			
Final Exam - 12/20/2014 - 60% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-111 scan knowledge clo 1,2, &amp; 3 fall 2014.pdf</a>	12/20/2014 - Establish suspension system mock-ups to help students understand the parts and components function and their operating principles based on location, shape, and models of car.		2014 - 2015 (Fall 2014)
Skill Sheet - 03/24/2014 - 100% of the students fulfilled expectations. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM 111 Skill Sheets.zip</a>	03/24/2014 - As determined and initiated by the last phase of this course's assessment, posters and bulletins will continue to be used while information and data will be displayed in such a manner as would be visually appealing and interesting to those enrolled in the course.  Visual aids, such as PowerPoint presentations and actual demonstrations, will continue to be employed to further enhance the effectiveness of course lectures.  The Oral, more interactive method of Knowledge-based Final Exams and tests will continue to be employed as results prove effective in contrast to last course assessment.		2013 - 2014 (Fall 2013)
Final Exam - 03/24/2014 - 100% of the students fulfilled expectations. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM 111 Final Exams.zip</a> <a href="#">AM 111 Skill Sheets.zip</a>	03/24/2014 - As determined and initiated by the last phase of this course's assessment, posters and bulletins will continue to be used while information and data will be displayed in such a manner as would be visually appealing and interesting to those enrolled in the course. Visual aids, such as PowerPoint presentations and actual demonstrations, will continue to be employed to further enhance the effectiveness of course lectures.		2013 - 2014 (Fall 2013)

**CLO: AM 111 - Basic Automotive Maintenance: CLO 2**

Perform Steering System Servicing

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**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 knowledge of the steering system components and identify symptoms that cause worn or defective parts. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Analyze steering part wear, remove, and replace steering parts with proper bolt tightening procedures and in the right sequence. <b>Signature assignment:</b> 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 - 12/30/2015 - 100% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2015.pdf</a>	12/30/2015 - Actual results: 2 out of 2 students are proficient; 2 (all) students are highly competent. Therefore, 100% of the students assessed passed the skills assessment.  Analyzed results: Skills assessment was good, but the number of student is less than the required numbers (minimum populations 10 students).  Recommendations: Course success can be improved by;  1.) Adding more mock-ups for CLO #2 (to have more laboratory hands-on practice and to enhance servicing technique). 2.) Adding repair manuals (for reference in specification of servicing steering system and components). 3.) Filming every laboratory activities to review their laboratory performance and techniques.  Action Plan: 1.) Produce additional mock-ups, before December 2016. 2.) Purchase repair manuals (e-copy and/or in-print) December 2016. 3.) Purchase video cam and automotive technology DVDs movies before December 2016.		2015-2016 (Fall 2015)
Final Exam - 12/30/2015 - 0% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-111 knowledge clo 1, 2, &amp; 3 fall 2015.pdf</a>	12/30/2015 - No student passed the assessment. Therefore, 0% of the students assessed passed the knowledge test.  Analyzed results: The students have problems on naming parts therefore; grasping the operating principle of		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	steering system is obviously affected.		
	<p>Recommendations:</p> <p>Course success can be improved by;</p> <ol style="list-style-type: none"> <li>1.) Viewing the videos of steering system to help the students understand the principles of operation and concepts.</li> <li>2.) Adding repair manuals to help the students know the concepts of steering system, parts functions, and sequence.</li> </ol> <p>Action plan:</p> <ol style="list-style-type: none"> <li>1.) Purchase repair manuals (e-copy and in print) before December 2016.</li> <li>2.) Purchase a DVD movie that correlates steering system servicing, before December 2016.</li> </ol>		

<p>Skill Sheet - 12/22/2014 - 95% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> Yes</p> <p><b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2014.pdf</a></p>	<p>12/22/2014 - Invite walk-in customers to bring their cars in the shop for steering system servicing; this will help students to improve their skills through hands-on practice.</p>	<p>2014 - 2015 (Fall 2014)</p>
<p>Final Exam - 12/22/2014 - 30% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> No</p> <p><b>Related Documents:</b> <a href="#">AM-111 scan knowledge clo 1,2, &amp; 3 fall 2014.pdf</a></p>	<p>12/22/2014 - Purchase DVD player and flat screen T.V to easily access on film showing for technical matters on different types of steering system.</p>	<p>2014 - 2015 (Fall 2014)</p>

### CLO: AM 111 - Basic Automotive Maintenance: CLO 3

Perform Brake System Servicing

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
<p>Demonstrate knowledge of the brake system components and symptoms that cause worn or defective parts.</p> <p><b>Signature assignment:</b> Final Exam</p>	<p>70% of the students assessed will perform at the proficiency level.</p>		<p>Yes</p>
<p>Analyze brake part wear, and remove, and assemble brake parts.</p> <p><b>Signature assignment:</b> Skill Sheet</p>	<p>70% of the students assessed will perform at the proficiency level.</p>		<p>Yes</p>

## Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p>Skill Sheet - 12/30/2015 - 100% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> Yes</p> <p><b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2015.pdf</a></p>	<p>12/30/2015 - Actual results: 2 out of 2 students are proficient; 1 is competent and one is highly competent. Therefore, 100% of the students assessed passed the skills assessment.</p> <p>Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #3.</p> <p>Recommendations: Course success can be improved by;</p> <ol style="list-style-type: none"> <li>1.) Adding more mock-ups for CLO #3 (to have more laboratory hands-on practice and to enhance servicing technique).</li> <li>2.) Adding repair manuals (for reference in specification of engine system and components).</li> <li>3.) Video every laboratory activities to review their laboratory performance and techniques.</li> </ol> <p>Action Plan: 1.) Produce additional mock-ups, before December 2016. 2.) Purchase repair manuals (e-copy and/or in-print) December 2015. 3.) Purchase video cam and automotive technology DVDs movies before December 2016.</p>		2015-2016 (Fall 2015)
<p>Final Exam - 12/30/2015 - 50% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> No</p> <p><b>Related Documents:</b> <a href="#">AM-111 knowledge clo 1, 2, &amp; 3 fall 2015.pdf</a></p>	<p>12/30/2015 - Actual results: 1 out of 2 students are proficient; None is competent and 1 is highly competent. Therefore, 50% of the students assessed passed the knowledge test.</p> <p>Analyzed results: The knowledge test result was good, but the highly competent students are less than the number of competent students.</p> <p>Recommendations: Course success can be improved by;</p> <ol style="list-style-type: none"> <li>1.) Viewing the videos of brake system to help the students understand the principles of operation and concepts.</li> <li>2.) Adding repair manuals to help the students know the concepts of brake system, parts functions, and sequence.</li> </ol> <p>Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2016. 2.) Purchase DVD movies that correlate to</p>		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	brake system servicing, before December 2016.		
Skill Sheet - 12/22/2014 - 95% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2014.pdf</a>	12/22/2014 - Invite walk-in customers and establish brake system mock-ups for hands-on purposes; this will help students to improve skills by experience.		2014 - 2015 (Fall 2014)
Final Exam - 12/22/2014 - 5% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-111 scan knowledge clo 1,2, &amp; 3 fall 2014.pdf</a>	12/22/2014 - Purchase DVD player and flat screen T.V to easily access on film showing for technical matters on brake system.		2014 - 2015 (Fall 2014)

**CLO: AM 111 - Basic Automotive Maintenance: CLO 4**

Perform Wheel Alignment

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate understanding of wheel alignment angles and formulate possible causes of wheel alignment imbalance for each alignment angle. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Align vehicle wheels to specifications. <b>Signature assignment:</b> 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 - 12/30/2015 - 100% of the students assessed performed at the proficiency level <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2015.pdf</a>	12/30/2015 - Actual results: 2 out of 2 students are proficient; 1 is competent and one is highly competent. Therefore, 100% of the students assessed passed the knowledge test.  Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #4.  Recommendations: 1.) Adding more mock-ups for CLO #4 (to have		2015-2016 (Fall 2015)

**Results**

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>more laboratory hands-on practice and to enhance servicing technique).</p> <p>2.) Adding repair manuals (for the specifications of engine system and components).</p> <p>3.) Taking videos every laboratory activities to review their laboratory performance and techniques.</p> <p>Action Plan:</p> <p>1.) Produce additional mock-ups, before December 2015.</p> <p>2.) Purchase repair manuals (e-copy and/or in-print) December 2015.</p> <p>3.) Purchase video cam and automotive technology DVDs movies before December 2016.</p> <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (fall 2016).</p> <p>1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #4; students are encourage to come in the shop on their free time for knowledge and skills enhancement.</p> <p>2.) Auto club will offer car servicing (the students approved by Federal Work study will be employed in Auto Club).</p> <p>3.) Set-up work stations for all the CLOs of AM-111.</p> <p>4.) Set-up film viewing</p> <p>5.) Conduct in-house Skills Olympic</p>		

<p>Final Exam - 12/30/2015 - 50% of the students assessed performed at the proficiency level.</p> <p><b>Expected Student Performance Met:</b> No</p> <p><b>Related Documents:</b> <a href="#">AM-111 scan knowledge clo 4 &amp; 5 fall 2015.pdf</a></p>	<p>12/30/2015 - Actual results: 1 out of 2 students are proficient; 9 are competent and none is highly competent. Therefore, 50% of the students assessed passed the knowledge test.</p> <p>Analyzed results: The students need help in comprehending the concepts of brake system, parts names and their functions.</p> <p>Recommendations: Course success can be improved by;</p> <p>1.) Viewing the videos of wheel alignment to help the students understand the principles of operation and concepts.</p> <p>2.) Adding repair manuals to help the students know the concepts of wheel alignment and their specifications.</p> <p>Action plan: 1.) Purchase repair manuals (e-copy and in</p>	<p>2015-2016 (Fall 2015)</p>
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Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	print) before December 2016. 2.) Purchase a DVD movie that correlates to wheel alignment, before December 2016.		
Skill Sheet - 12/22/2014 - 85% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2014.pdf</a>	12/22/2014 - Purchase wheel aligner unit and establish wheel alignment mock-ups to help students understand the adjustments, tolerance, and specification of each vehicle unit.		2014 - 2015 (Fall 2014)
Final Exam - 12/22/2014 - 70% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> Yes <b>Related Documents:</b> <a href="#">AM-111 scan knowledge clo 4 &amp; 5 fall 2014.pdf</a>	12/22/2014 - Establish posters, visual aid, and film viewing / showing on wheel alignment to enhance lecture effectiveness and thus help students to improve their understanding on wheel alignment.		2014 - 2015 (Fall 2014)

### CLO: AM 111 - Basic Automotive Maintenance: CLO 5

Analyze Underchassis Problem

**CLO Assessment Cycle:** 2014-2015 (Fall 2014)

**CLO Status:** Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate understanding of part wear, causes of wear, and the degree of wear. <b>Signature assignment:</b> Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Test-drive vehicle to observe symptoms that arise during operation, inspect parts for wear, and apply knowledge in operating principles to identify problems and their causes. <b>Signature assignment:</b> 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 - 12/30/2015 - 50% of the students assessed performed at the proficiency level <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2015.pdf</a>	12/30/2015 - Actual results: 1 out of 2 students are proficient; 1 is competent and none is highly competent. Therefore, 50% of the students assessed passed the skills test.  Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO # 5.		2015-2016 (Fall 2015)

**Results**

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>Recommendations: Course success can be improved by;</p> <ol style="list-style-type: none"> <li>1.) Adding more mock-ups for CLO #5 (to have more laboratory hands-on practice and to enhance servicing technique).</li> <li>2.) Adding repair manuals (for reference in specification of engine system and components).</li> <li>3.) Taking videos every laboratory activities to review their laboratory performance and techniques.</li> </ol> <p>Action Plan:</p> <ol style="list-style-type: none"> <li>1.) Produce additional mock-ups, before December 2015.</li> <li>2.) Purchase repair manuals (e-copy and/or in-print) December 2015.</li> <li>3.) Purchase video cam and automotive technology DVDs movies before August 2016.</li> </ol> <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (Fall 2016).</p> <ol style="list-style-type: none"> <li>1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #5; students are encourage to come in the shop on their free time for knowledge and skills enhancement.</li> <li>2.) Auto club will offer car servicing (the students approved by Federal Work study will be employed in Auto Club).</li> <li>3.) Set-up work stations for all the CLOs of AM-111</li> <li>4.) Set-up film viewing</li> <li>5.) Conduct in-house Skills Olympic</li> </ol>		

<p>Final Exam - 12/30/2015 - 50% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-111 scan knowledge clo 4 &amp; 5 fall 2015.pdf</a></p>	<p>12/30/2015 - Actual results: 1 out of 2 students are proficient; 1 is competent and none is highly competent. Therefore, 50% of the students assessed passed the knowledge test.</p> <p>Analyzed results: The students need help in comprehending the concepts of overhauling the engine.</p> <p>Recommendations:</p> <ol style="list-style-type: none"> <li>1.) Set-up film showing to help the students familiarized the concepts of engine mechanical system and specifications.</li> <li>2.) Add repair manuals to help the students know the concepts and specification of engine mechanical system.</li> </ol>		<p>2015-2016 (Fall 2015)</p>
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**Results**

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie that correlates to engine overhauling, before December 2015.		
Skill Sheet - 12/22/2014 - 50% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-111 scan skills fall 2014.pdf</a>	12/22/2014 - Invite walk-in customers for underchassis repair; this will help the students to learn analyzing underchassis problem.		2014 - 2015 (Fall 2014)
Final Exam - 12/22/2014 - 20% of the students assessed performed at the proficiency level. <b>Expected Student Performance Met:</b> No <b>Related Documents:</b> <a href="#">AM-111 scan knowledge clo 4 &amp; 5 fall 2014.pdf</a>	12/22/2014 - Establish posters, visual aid, and film viewing / showing on under chassis problem to enhance lecture effectiveness.		2014 - 2015 (Fall 2014)