

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

Program (AM) - Automotive Mechanics Technology

CLO: AM 125 - Automotive Electricity: CLO 1

Service Automotive Battery

CLO Assessment Cycle: 2014-2015 (Spring 2015)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name battery parts and components and explain battery charging and discharging process, and electrolyte function analyze cause and effect involving battery problems. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Check battery electrolyte specific gravity, Conduct battery charging, Conduct battery connection, Check battery plate's condition, Check battery charging voltage 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 - 06/02/2015 - 52.4% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: AM-125 midterm exam knowledge spring 2015.pdf	06/10/2015 - Actual results: 11 out of 21 students are proficient; 11 are competent and none is highly competent. Therefore, 52.4% of the students assessed passed the knowledge test. Analyzed results: Privation on comprehending the operating principles of automotive battery is obvious on the test result. Recommendations: 1.) Set-up film showing to help the students understand in the wiring diagram and of the principles of operation of battery. 2.) Add repair manuals to help the students know the concepts and specifications of automotive batteries. Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie that correlates to		2014 - 2015 (Spring 2015)

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>servicing automotive battery before December 2015.</p> <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <p>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.</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-125</p> <p>4.) Set-up film viewing</p>		
<p>Practical Application Skill Test - 06/02/2015 - 90.5% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM-125 SKILLS SPRING 2015.pdf</p>	<p>06/10/2015 - Actual results: 19 out of 21 students are proficient; 10 are competent and 9 are highly competent. Therefore, 90.5% of the students assessed passed the skills assessment.</p> <p>Analyzed results: The result of skills assessment was good, but the highly competent students are less than the number of competent students.</p> <p>Recommendations: 1.) Set-up film showing to motivate the students to participate in class discussion and reporting. 2.) Add repair manuals to help the students know the concepts and specification of ignition system. 3.) Add more mock-ups for automotive battery to allow the students to practice on their free time. 4.) Purchase video cam to record their laboratory activity and review their performance and technique.</p> <p>Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie that correlates to servicing automotive battery before December 2015. 3.) Produce more mock-ups before December 2015. 4.) Purchase video cam before 2015.</p> <p>Extended services offered; to produce more highly competent students in knowledge and skills for the</p>		<p>2014 - 2015 (Spring 2015)</p>

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	next semester (spring 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-125 4.) Set-up film viewing 5.) Conduct in-house Skills Olympic		
Practical Application Skill Test - 07/08/2014 - 100% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM125 CLO1 skills.pdf	07/08/2014 - No action needed at this time.		2013 - 2014 (Spring 2014)
Final Exam - 07/08/2014 - 76% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM125 CLO1-2 fe.pdf	07/08/2014 - No action needed at this time.		2013 - 2014 (Spring 2014)

CLO: AM 125 - Automotive Electricity: CLO 2

Service Starting System

CLO Assessment Cycle: 2014-2015 (Spring 2015)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name starter system parts and components and explain starter motor operating principle and their specification and analyze cause and effect involving starting system problems.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Final Exam			

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Check starter motor operation, Check starter switch and relay, Remove starter motor assembly, Dismantle starter motor assembly, Test armature winding , Test solenoid switch, Test field coil winding, Assemble starter motor components, Install starter motor assembly.	70% of the students assessed will perform at the proficiency level.		Yes
<p>Signature assignment: Practical Application Skill Test</p>			

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p>Final Exam - 06/02/2015 - 24% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-125 midterm exam knowledge spring 2015.pdf</p>	<p>06/10/2015 - Actual results: 5 out of 21 students are proficient; 5 are competent and none is highly competent. Therefore, 24% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Privation on comprehending the concepts of starting system is obvious on the test result.</p> <p>Recommendations: 1.) Set-up film showing to motivate the students to participate in class discussion and reporting. 2.) Add repair manuals to help the students know the concepts and specification of starting system.</p> <p>Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie that correlates to servicing starting system before December 2015. Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016). 1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #2; 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-125 4.) Set-up film viewing</p>		2014 - 2015 (Spring 2015)
Practical Application Skill Test - 06/02/2015 - 90.5% of the students assessed performed at the proficiency level.	07/03/2015 - Actual results: 19 out of 21 students are proficient; 13 are		2014 - 2015 (Spring 2015)

Results

Summary of Data Collected

Expected Student Performance Met:

Yes

Related Documents:

[AM-125 SKILLS SPRING 2015.pdf](#)

Use of Results

competent and 2 are highly competent. Therefore, 90.5% of the students assessed passed the skills assessment.

Analyzed results:

The result of skills assessment was good, but the highly competent students are less than the number of competent 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.) Forming repair shop (to enhance servicing technique and gain more skills and experience).
- 3.) Adding repair manuals (for reference in specification of starting system and components).
- 4.) Expanding classrooms areas (to create conducive learning environment; starting system parts and components will be displayed with name tags, and specifications).
- 5.) Video every laboratory activities to review their laboratory performance and techniques.

Action Plan:

- 1.) Produce additional mock-ups, before December 2015.
 - 2.) Establish repair shop (a student business repair shop in school campus) before December 2015.
 - 3.) Purchase repair manuals (e-copy and/or in-print) December 2015.
 - 4.) Renovate Classroom before December 2015.
 - 5.) Purchase video cam and automotive technology DVD movies before December 2015.
- Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).
- 1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #2; 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-125
 - 4.) Set-up film viewing
 - 5.) Conduct in-house Skills Olympic

Follow-Up

Semester Assessed

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p>Practical Application Skill Test - 07/08/2014 - 94% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM125 CLO2 skills.pdf</p>	07/08/2014 - No action needed at this time.		2013 - 2014 (Spring 2014)
<p>Final Exam - 07/08/2014 - 35% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM125 CLO1-2 fe.pdf</p>	<p>07/08/2014 - Recommend that students be given a task to do research to better understand the principles of operation and function of each part and component. Video clips should be viewed during laboratory time to help students familiarize part names, sequence and specifications.</p> <p>A video camcorder, a flat screen television and DVD player should be purchased to accommodate film viewing during laboratory and to record some laboratory performance of each student. Mock-ups could also help the students to improve their laboratory performance. If Mock-ups could be purchased, or if student were allowed to accept car repairs, this would also greatly help the students to improve their laboratory performance in areas where they demonstrated poor skill application.</p>		2013 - 2014 (Spring 2014)

CLO: AM 125 - Automotive Electricity: CLO 3

Service Charging System

CLO Assessment Cycle: 2014-2015 (Spring 2015)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
<p>Name Charging system parts and components, and explain their principles of operation and diagnose charging system problem that correlates engine performance.</p> <p>Signature assignment: Final Exam</p>	70% of the students assessed will perform at the proficiency level.		Yes
<p>Check charging output, Check charging system wiring connection, Check voltage regulator operation, Remove alternator assembly, Dismantle alternator assembly, Test stator winding, Test rotor winding, Replace alternator carbon brush, Check rectifier diode operation, Assemble alternator components, Install alternator assembly.</p> <p>Signature assignment: Practical Application Skill Test</p>	70% of the students assessed will perform at the proficiency level.		Yes

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
<p>Final Exam - 06/02/2015 - 47.6% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-125 midterm exam knowledge spring 2015.pdf</p>	<p>06/10/2015 - Actual results: 10 out of 21 students are proficient; 10 are competent and none is highly competent. Therefore, 47.6% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Privation on comprehending the concepts of charging system is obvious on the test result.</p> <p>Recommendations: 1.) Set-up film showing to motivate the students to participate in class discussion and reporting. 2.) Add repair manuals to help the students know the concepts and specification of charging system.</p> <p>Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie that correlates to servicing charging system before December 2015. Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016). 1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #3; 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-125 4.) Set-up film viewing</p>		2014 - 2015 (Spring 2015)
<p>Practical Application Skill Test - 06/02/2015 - 47.6% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-125 SKILLS SPRING 2015.pdf</p>	<p>07/03/2015 - Actual results: 10 out of 21 students are proficient; 10 are competent and none is highly competent. Therefore, 47.6% of the students assessed passed the skills assessment.</p> <p>Analyzed results: Students need more practice.</p> <p>Recommendations: Course success can be improved by;</p> <p>1.) Adding more mock-ups for CLO #3 (to have more laboratory hands-on practice and to enhance</p>		2014 - 2015 (Spring 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>servicing technique).</p> <ol style="list-style-type: none"> 2.) Forming repair shop (to enhance servicing technique and gain more skills and experience. 3.) Adding repair manuals (for reference in specification of charging system and components). 4.) Expanding classrooms areas (to create conducive learning environment; engine parts and components will be displayed with name tags, and specifications. 5.) Video every laboratory activities to review their laboratory performance and techniques. <p>Action Plan:</p> <ol style="list-style-type: none"> 1.) Produce additional mock-ups, before December 2015. 2.) Establish repair shop (a student business repair shop in school campus) before December 2015. 3.) Purchase repair manuals (e-copy and/or in-print) December 2015. 4.) Renovate Classroom before December 2015. 5.) Purchase video cam and automotive technology DVD movies before December 2015. <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <ol style="list-style-type: none"> 1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #3; 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-125 4.) Set-up film viewing 5.) Conduct in-house Skills Olympic 		
<p>Practical Application Skill Test - 07/08/2014 - 65% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM125 CLO3 skills.pdf</p>	<p>07/08/2014 - A video camcorder, a flat screen television and DVD player should be purchased to accommodate film viewing during laboratory and to record some laboratory performance of each student. Mock-ups could also help the students to improve their laboratory performance. If Mock-ups could be purchased, or if student were allowed to accept car repairs, this would also greatly help the students to improve their laboratory performance in areas where they demonstrated poor skill application.</p>		2013 - 2014 (Spring 2014)
<p>Final Exam - 07/08/2014 - 47% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met:</p>	<p>07/08/2014 - Recommend that students be given a task to do research to better understand the principles of operation and function of each part</p>		2013 - 2014 (Spring 2014)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
No	and component. Video clips should be viewed during laboratory time to help students familiarize part names, sequence and specifications.		
Related Documents: AM125 CLO3-4 fe.pdf			

CLO: AM 125 - Automotive Electricity: CLO 4

Service Ignition System

CLO Assessment Cycle: 2014-2015 (Spring 2015)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name ignition system parts and components and voltage generation and their basic principles of operation and troubleshoot ignition problem that correlates engine performance.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Final Exam			
Check ignition system voltage output, Measure ignition switch voltage output, Check distributor advance mechanism, Check ignition coil resistance value, Test ignition module, Adjust contact point clearance, Measure ignition system sensor resistance value, Measure high tension wire resistance value, Check spark plug condition.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Practical Application Skill Test			

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 06/02/2015 - 71.4% of the students assessed performed at the proficiency level.	06/10/2015 - Actual results: 15 out of 21 students are proficient; 13 are competent and 2 are highly competent. Therefore, 71.4% of the students assessed passed the knowledge test.		2014 - 2015 (Spring 2015)
Expected Student Performance Met: Yes			
Related Documents: AM-125 midterm exam knowledge spring 2015.pdf			
	Analyzed results: The knowledge test result was good, but the highly competent students are less than the number of competent students.		
	Recommendations: 1.) Set-up film showing to motivate the students to participate in class discussion and reporting. 2.) Add repair manuals that correlates to		

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>servicing ignition system. This will help the students to know more the concepts and specification of ignition system.</p> <p>Action plan:</p> <ol style="list-style-type: none"> 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie before December 2015. <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <ol style="list-style-type: none"> 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. 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-125 4.) Set-up film viewing 		
<p>Practical Application Skill Test - 06/02/2015 - 47.4% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-125 SKILLS SPRING 2015.pdf</p>	<p>07/03/2015 - Actual results: 11 out of 21 students are proficient; 11 are competent and none is highly competent. Therefore, 47.4% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Students need more practice.</p> <p>Recommendations: Course success can be improved by;</p> <ol style="list-style-type: none"> 1.) Adding more mock-ups for CLO #4 (to have more laboratory hands-on practice and to enhance servicing technique). 2.) Forming repair shop (to enhance servicing technique and gain more skills and experience. 3.) Adding repair manuals (for reference in specification of charging system and components). 4.) Expanding classrooms areas (to create conducive learning environment; ignition system parts and components will be displayed with name tags, and specifications. 5.) Video every laboratory activities to review their laboratory performance and techniques. <p>Action Plan: 1.) Produce additional mock-ups, before December 2015.</p>		2014 - 2015 (Spring 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	2.) Establish repair shop (a student business repair shop in school campus) before December 2015. 3.) Purchase repair manuals (e-copy and/or in-print) December 2015. 4.) Renovate Classroom before December 2015. 5.) Purchase video cam and automotive technology DVD movies before December 2015. Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016). 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. 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-125 4.) Set-up film viewing 5.) Conduct in-house Skills Olympic		
Practical Application Skill Test - 07/08/2014 - 59% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: AM125 CLO4 skills.pdf	07/08/2014 - A video camcorder, a flat screen television and DVD player should be purchased to accommodate film viewing during laboratory and to record some laboratory performance of each student. Mock-ups could also help the students to improve their laboratory performance. If Mock-ups could be purchased, or if student were allowed to accept car repairs, this would also greatly help the students to improve their laboratory performance in areas where they demonstrated poor skill application		2013 - 2014 (Spring 2014)
Final Exam - 07/08/2014 - 71% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM125 CLO3-4 fe.pdf	07/08/2014 - No action needed at this time.		2013 - 2014 (Spring 2014)

CLO: AM 125 - Automotive Electricity: CLO 5

Service Engine Electrical System

CLO Assessment Cycle: 2014-2015 (Spring 2015)

CLO Status: Active

Means of Assessment

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Name engine electrical system components and explain parts function and their principles of operation. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Check electrically operated cooling fan operation, Check electrically operated cooling fan relay and sensor switch, Check engine temperature sensor, Check engine temperature gauge, Check oil pressure sensor, Check oil pressure gauge. 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 - 06/02/2015 - 76.2% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM-125 final exam knowledge test spring 2015.pdf	06/10/2015 - Actual results: 16 out of 21 students are proficient; 16 are competent and none is highly competent. Therefore, 76.2% of the students assessed passed the knowledge test. Analyzed results: Logically, the knowledge test result was good, but none is highly competent. Recommendations: 1.) Set-up film showing to motivate the students to participate in class discussion and reporting. 2.) Add repair manuals that correlates to servicing engine electrical system. This will help the students to know more the concepts and specification of engine electrical system. Action plan: 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie that correlates to servicing engine electrical system before December 2015. Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016). 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. 2.) Auto club will offer car servicing (the students		2014 - 2015 (Spring 2015)

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>approved by Federal Work study will be employed in Auto Club).</p> <p>3.) Set-up work stations for all the CLOs of AM-125</p> <p>4.) Set-up film viewing</p>		
<p>Practical Application Skill Test - 06/02/2015 - 47.6% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-125 SKILLS SPRING 2015.pdf</p>	<p>07/03/2015 - Actual results: 10 out of 21 students are proficient; 9 are competent and 1 is highly competent. Therefore, 47.6% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Students need more hands-on practice.</p> <p>Recommendations: Course success can be improved by;</p> <p>1.) Adding more mock-ups for CLO #5 (to have more laboratory hands-on practice and to enhance servicing technique).</p> <p>2.) Forming repair shop (to enhance servicing technique and gain more skills and experience.</p> <p>3.) Adding repair manuals (for reference in specification of engine electrical system and components).</p> <p>4.) Expanding classrooms areas (to create conducive learning environment; engine electrical system parts and components will be displayed with name tags, and specifications.</p> <p>5.) Video every laboratory activities to review their laboratory performance and techniques.</p> <p>Action Plan: 1.) Produce additional mock-ups, before December 2015.</p> <p>2.) Establish repair shop (a student business repair shop in school campus) before December 2015.</p> <p>3.) Purchase repair manuals (e-copy and/or in-print) December 2015.</p> <p>4.) Renovate Classroom before December 2015.</p> <p>5.) Purchase video cam and automotive technology DVD movies before December 2015.</p> <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <p>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.</p> <p>2.) Auto club will offer car servicing (the students</p>		2014 - 2015 (Spring 2015)

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	approved by Federal Work study will be employed in Auto Club). 3.) Set-up work stations for all the CLOs of AM-125 4.) Set-up film viewing 5.) Conduct in-house Skills Olympic		
Practical Application Skill Test - 07/08/2014 - 71% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM125 CLO5 skills.pdf	07/08/2014 - No action needed at this time.		2013 - 2014 (Spring 2014)
Final Exam - 07/08/2014 - 71% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM125 CLO5-6 fe.pdf	07/08/2014 - No action needed at this time.		2013 - 2014 (Spring 2014)

CLO: AM 125 - Automotive Electricity: CLO 6

Service Lighting System

CLO Assessment Cycle: 2014-2015 (Spring 2015)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Draw and Read Electrical wiring schematic diagram of Head light circuit, Park and tail light circuit, Signal and hazard light circuit, Stop light circuit, Plate light circuit, Passenger's light circuit. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Check light bulbs, Check lighting system relay and fuses, Check light switch terminal contact, Conduct wiring installation for head light circuit, Conduct wiring installation for park and tail circuit, Conduct wiring installation for signal and hazard circuit, Conduct wiring installation for stop light circuit, Conduct wiring installation for horn circuit, Conduct wiring installation for plate light circuit. 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
<p>Final Exam - 06/02/2015 - 42% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-125 final exam knowledge test spring 2015.pdf</p>	<p>06/10/2015 - Actual results: 8 out of 19 students are proficient; 5 are competent and 3 are highly competent. Therefore, 42% of the students assessed passed the knowledge test.</p> <p>Analyzed results: Privation on comprehending the concepts of ignition system is obvious on the test result.</p> <p>Recommendations:</p> <ol style="list-style-type: none"> 1.) Set-up film showing to motivate the students to participate in class discussion and reporting. 2.) Add repair manuals that correlates to chassis electrical system. This will help the students to know more the concepts and specifications of chassis electrical system. <p>Action plan:</p> <ol style="list-style-type: none"> 1.) Purchase repair manuals (e-copy and in print) before December 2015. 2.) Purchase a DVD movie that correlates to chassis electrical system before December 2015. <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <ol style="list-style-type: none"> 1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #6; 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-125 4.) Set-up film viewing 		2014 - 2015 (Spring 2015)
<p>Practical Application Skill Test - 06/02/2015 - 95.2% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM-125 SKILLS SPRING 2015.pdf</p>	<p>07/03/2015 - Actual results: 20 out of 21 students are proficient; 14 are competent and 6 are highly competent. Therefore, 95.2% of the students assessed passed the skills assessment.</p> <p>Analyzed results: The result of skills assessment 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"> 1.) Adding more mock-ups for CLO #6 (to have 		2014 - 2015 (Spring 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> <ol style="list-style-type: none"> 2.) Forming repair shop (to enhance servicing technique and gain more skills and experience. 3.) Adding repair manuals (for reference in specification of lighting system and components). 4.) Expanding classrooms areas (to create conducive learning environment; lighting system parts and components will be displayed with name tags, and specifications. 5.) Video every laboratory activities to review their laboratory performance and techniques. <p>Action Plan:</p> <ol style="list-style-type: none"> 1.) Produce additional mock-ups, before December 2015. 2.) Establish repair shop (a student business repair shop in school campus) before December 2015. 3.) Purchase repair manuals (e-copy and/or in-print) December 2015. 4.) Renovate Classroom before December 2015. 5.) Purchase video cam and automotive technology DVD movies before December 2015. <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <ol style="list-style-type: none"> 1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #6; 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-125 4.) Set-up film viewing 5.) Conduct in-house Skills Olympic 		
<p>Practical Application Skill Test - 07/08/2014 - 82% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: Yes</p> <p>Related Documents: AM125 CLO6 skills.pdf</p>	07/08/2014 - No action needed at this time.		2013 - 2014 (Spring 2014)
<p>Final Exam - 07/08/2014 - 18% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM125 CLO5-6 fe.pdf</p>	07/08/2014 - Recommend that students be given a task to do research to better understand the principles of operation and function of each part and component. Video clips should be viewed during laboratory time to help students familiarize part names, sequence and specifications.		2013 - 2014 (Spring 2014)

CLO: AM 125 - Automotive Electricity: CLO 7

Service Chassis Electrical System

CLO Assessment Cycle: 2014-2015 (Spring 2015)

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Name chassis electrical system components and explain their functions and their operating principles.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Final Exam			
Check wiper motor condition, Lubricate wiper linkages, Test wiper relay, Check wiper switch terminal contact, Replace wiper blade, Adjust wiper rod position, Clean wiper washer water passage, Test wiper washer motor condition.	70% of the students assessed will perform at the proficiency level.		Yes
Signature assignment: Practical Application Skill Test			

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 06/02/2015 - 100% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: AM-125 midterm exam knowledge spring 2015.pdf	06/10/2015 - Actual results: 21 out of 21 students are proficient; 20 are competent and 1 is highly competent. Therefore, 100% of the students assessed passed the knowledge test. Analyzed results: The knowledge test result was good, but the highly competent students are less than the number of competent students. Recommendations: 1.) Set-up film showing to motivate the students to participate in class discussion and reporting. 2.) Add repair manuals that correlates to servicing chassis electrical system. This will help the students know more the concepts and specification of chassis electrical system. Action plan: Maintain the passing rate and improve the percentage of highly competent students by next semester offering spring 2016, and to make this happened we need to: 1.) Purchase repair manuals (e-copy and in print) before December 2015.		2014 - 2015 (Spring 2015)

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>2.) Purchase a DVD movie that correlates to servicing chassis electrical system before December 2015.</p> <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <p>1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #7; 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-125</p> <p>4.) Set-up film viewing</p>		
<p>Practical Application Skill Test - 06/02/2015 - 43% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM-125 SKILLS SPRING 2015.pdf</p>	<p>07/03/2015 - Actual results: 10 out of 21 students are proficient; 10 are competent and none is highly competent. Therefore, 43% of the students assessed passed the skills assessment.</p> <p>Analyzed results: Students need more hands-on practice.</p> <p>Recommendations: Course success can be improved by;</p> <p>1.) Adding more mock-ups for CLO #7 (to have more laboratory hands-on practice and to enhance servicing technique).</p> <p>2.) Forming repair shop (to enhance servicing technique and gain more skills and experience.</p> <p>3.) Adding repair manuals (for reference in specification of chassis electrical system and components).</p> <p>4.) Expanding classrooms areas (to create conducive learning environment; chassis electrical system parts and components will be displayed with name tags, and specifications.</p> <p>5.) Video every laboratory activities to review their laboratory performance and techniques.</p> <p>Action Plan: 1.) Produce additional mock-ups, before December 2015.</p> <p>2.) Establish repair shop (a student business repair shop in school campus) before December 2015.</p> <p>3.) Purchase repair manuals (e-copy and/or in-print) December 2015.</p>		2014 - 2015 (Spring 2015)

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
	<p>4.) Renovate Classroom before December 2015.</p> <p>5.) Purchase video cam and automotive technology DVD movies before December 2015.</p> <p>Extended services offered; to produce more highly competent students in knowledge and skills for the next semester (spring 2016).</p> <p>1.) Tutorial services (assistant instructor will give additional lecture and hands-on practice on CLO #7; 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-125</p> <p>4.) Set-up film viewing</p> <p>5.) Conduct in-house Skills Olympic</p>		
<p>Practical Application Skill Test - 07/08/2014 - 65% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM125 CLO7 skills.pdf</p>	<p>07/08/2014 - A video camcorder, a flat screen television and DVD player should be purchased to accommodate film viewing during laboratory and to record some laboratory performance of each student. Mock-ups could also help the students to improve their laboratory performance. If Mock-ups could be purchased, or if student were allowed to accept car repairs, this would also greatly help the students to improve their laboratory performance in areas where they demonstrated poor skill application.</p>		2013 - 2014 (Spring 2014)
<p>Final Exam - 07/08/2014 - 53% of the students assessed performed at the proficiency level.</p> <p>Expected Student Performance Met: No</p> <p>Related Documents: AM125 CLO7 fe.pdf</p>	<p>07/08/2014 - Recommend that students be given a task to do research to better understand the principles of operation and function of each part and component. Video clips should be viewed during laboratory time to help students familiarize part names, sequence and specifications.</p>		2013 - 2014 (Spring 2014)