Assessment Impact by Course Objectives

Palau Community College

Program (AM) - Automotive Mechanics Technology

Program (AM) - Automotive Mechanics Technology

CLO: AM 214 - Electrical Engine Management: CLO 1

Service Carburetor Assembly

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Name carburetor parts and components, and explain carburetor Operating principle, and analyze carburetor problems that affect engine performance and fuel consumption. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Overhaul carburetor assembly, Adjust engine idling, Adjust choke system, and Check carburetor vacuum hoses. **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 - 12/30/2015 - 62.5% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** AM-214 scan skills fall 2015.pdf	12/30/2015 - Actual results: 10 out of 16 students are proficient; 6 are competent and 4 are highly competent. Therefore, 62.5% of the students assessed passed the skills assessment. Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #1. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
Final Exam - 12/30/2015 - 93.75% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan knowledge clo 1 & 2 fall 2015.pdf	12/30/2015 - Actual results: 15 out of 16 students are proficient; 8 are competent and 7 are highly competent. Therefore, 93.75% of the students assessed passed the knowledge test. Analyzed results: The knowledge test result shows that, the students have good foundation on this area. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Practical Application Skill Test - 12/19/2014 - 40% of the students assessed performed at the proficiency level **Expected Student Performance Met:** No **Related Documents:** AM-214 scan skills fall 2014.pdf	12/19/2014 - Use video camera to record the said activity; this will guide and help the students when dismantling and assembling carburetor assembly.		2014 - 2015 (Fall 2014)
Final Exam - 12/19/2014 - 80% of the students assessed performed at the proficiency level **Expected Student Performance Met:** Yes **Related Documents:** AM-214 knowledge clo 1 & 2 fall 2014.pdf	12/19/2014 - Develop carburetor mock-up to enhance student interest in naming parts, components, and the operating principles of carburetor assembly.		2014 - 2015 (Fall 2014)

CLO: AM 214 - Electrical Engine Management: CLO 2

Service Electronic Fuel Injection Control Unit

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Read EFI circuit diagram, and explain Electronic fuel injection control system, name EFI sensors and explain their functions, and analyze engine diagnostic code inputs. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Measure electronic control unit input and output voltage, Clean electronic control unit terminals and sockets, Measure electronic control unit power supply, Measure air-flow meter signal voltage, Measure throttle valve signal voltage, and Measure water temperature sensor signal. **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 - 12/30/2015 - 50% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** AM-214 scan skills fall 2015.pdf	12/30/2015 - Actual results: 8 out of 16 students are proficient; 6 are competent and 2 are highly competent. Therefore, 50% of the students assessed passed the skills assessment. Analyzed results: The students need more hands-on practice and experience to improve their skills on CLO #2. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Final Exam - 12/30/2015 - 100% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan knowledge clo 1 & 2 fall 2015.pdf	12/30/2015 - Actual results: 16 out of 16 students are proficient; 14 are competent and 2 are highly competent. Therefore, 100% of the students assessed passed the knowledge test. Analyzed results: The knowledge test result shows that, the students have good foundation on this area. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Practical Application Skill Test - 12/20/2014 - 60% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** No	12/20/2014 - Establish EFI engine mock-ups to accommodate hands-on practice. Purchase G-scan 2 diagnostic tool; this tool is excellent for Asian cars to monitoring EFI control		2014 - 2015 (Fall 2014)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
Related Documents: AM-214 scan skills fall 2014.pdf	unit and sensors activity, and thus making our students understand the parameters of EFI control unit, sensors, and the diagnostic trouble code.		
Final Exam - 12/19/2014 - 90% of the students assessed performed at he proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 knowledge clo 1 & 2 fall 2014.pdf	12/19/2014 - Establish posters, visual aid, and film viewing / showing on EFI control unit circuitry, connectors, and terminals to enhance lecture effectiveness; this will help students to learn the parameters of EFI control unit.		2014 - 2015 (Fall 2014)

CLO: AM 214 - Electrical Engine Management: CLO 3

Service Electronic Fuel Injection Actuators

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Explain Electronic fuel injection actuators operating principle and parts function and analyze cause and effect involving EFI actuators problems. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Measure fuel injector operation and resistance value, Clean electronic fuel injector holes, and Check electronic fuel injector spray pattern. **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 - 12/30/2015 - 81.25% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan skills fall 2015.pdf	12/30/2015 - Actual results: 13 out of 16 students are proficient; 8 are competent and 5 are highly competent. Therefore, 81.25% of the students assessed passed the skills assessment. Analyzed results: Skills assessment result was good, but the highly competent students are less than the number of competent students. Recommendations:		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
	Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		
Final Exam - 12/30/2015 - 43.75% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** AM-214 knowledge clo 3, 4, & 5 fall 2015.pdf	12/30/2015 - Actual results: 7 out of 16 students are proficient; 3 are competent and 4 are highly competent. Therefore, 43.75% of the students assessed passed the knowledge test. Analyzed results: Privation on grasping the concepts of electronic fuel injection actuators. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Practical Application Skill Test - 12/20/2014 - 70% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan skills fall 2014.pdf	12/20/2014 - Establish EFI mock-ups for hands on practice. Purchase G-scan diagnostic tool to correctly monitor the actuator activity on all speed ranges.		2014 - 2015 (Fall 2014)
Final Exam - 12/20/2014 - 50% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** AM-214 scan knowledge clo 3, 4, 5 fall 2014.pdf	12/20/2014 - Establish EFI mock-ups to help students understand the function and the operating principles of EFI actuators based on location, shape, and the connectors. Purchase DVD player and flat screen T.V to easily access on film showing for technical matters.		2014 - 2015 (Fall 2014)

CLO: AM 214 - Electrical Engine Management: CLO 4

Service Electric Fuel Pump Assembly

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
Name Electric fuel pump parts and explain their operating principles and specification, and analyze fuel pump cause and effect involving fuel pump problems. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Measure electric fuel pump input and output voltage, Measure electric fuel pump resistance value, Check electric fuel pump operation. **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 - 12/30/2015 - 93.75% of the students assessed performed at the proficiency level **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan skills fall 2015.pdf	12/30/2015 - Actual results: 15 out of 16 students are proficient; 3 are competent and 15 are highly competent. Therefore, 93.75% of the students assessed passed the skills test. Analyzed results: The skills test results shows that, the students are psychomotor learner. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Final Exam - 12/30/2015 - 56.25% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** AM-214 knowledge clo 3, 4, & 5 fall 2015.pdf	12/30/2015 - Actual results: 9 out of 16 students are proficient; 6 are competent and 3 are highly competent. Therefore, 56.25% of the students assessed passed the knowledge test. Analyzed results: Privation on grasping the concepts of EFI fuel system. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
Practical Application Skill Test - 12/20/2014 - 100% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan skills fall 2014.pdf	12/20/2014 - Establish EFI engine mock-ups to help students improve their skills in servicing electric fuel pump assembly through hands-on practice.		2014 - 2015 (Fall 2014)
Final Exam - 12/20/2014 - 70% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan knowledge clo 3, 4, 5 fall 2014.pdf	12/20/2014 - Establish EFI mock-ups to help students understand the operating principles, function of each components based on location and connectors. Purchase DVD player and flat screen T.V to easily access on film showing for technical matters.		2014 - 2015 (Fall 2014)

CLO: AM 214 - Electrical Engine Management: CLO 5

Service Electrical Security System

CLO Assessment Cycle: 2014-2015 (Fall 2014)

CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Read Electrical security control system circuit diagram, name parts and components and explain its functions and analyze electrical security system problems. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Measure electrical security control unit power supply, Measure electric al security control unit input and output voltage, Check electrical security system signal, Service electrical security system sensor and manual switch operation, Service electrical security system actuators , Check electrical security system wave signal. **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 - 12/30/2015 - 43.75% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** AM-214 knowledge clo 3, 4, & 5 fall 2015.pdf	12/30/2015 - Actual results: 7 out of 16 students are proficient; 6 are competent and one is highly competent. Therefore, 43.75% of the students assessed passed the knowledge test. Analyzed results: The students need help in comprehending the		2015-2016 (Fall 2015)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
	concepts of electrical security system. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		
Practical Application Skill Test - 12/30/2015 - 31.25% of the students assessed performed at the proficiency level **Expected Student Performance Met:** No **Related Documents:** AM-214 scan skills fall 2015.pdf	12/30/2015 - Actual results: 5 out of 16 students are proficient; 5 are competent and none is highly competent. Therefore, 31.25% 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. Recommendations: Revise the course content of this course for the next semester to accommodate technology update. Action Plan: Revision must be done before February 2016.		2015-2016 (Fall 2015)
Practical Application Skill Test - 12/22/2014 - 10% of the students assessed perform at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** AM-214 scan skills fall 2014.pdf	12/22/2014 - Establish car alarm electrical security system mock-ups to help students improve their skills in servicing electrical security system through hands-on practice.		2014 - 2015 (Fall 2014)
Final Exam - 12/22/2014 - 70% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** AM-214 scan knowledge clo 3, 4, 5 fall 2014.pdf	12/22/2014 - Establish posters, visual aid, and film viewing / showing on electrical security system to enhance lecture effectiveness and thus making the students to learn the operating principles of car alarm (security system).		2014 - 2015 (Fall 2014)