Course Assessment Report Washtenaw Community College

Discipline	Course Number	Title	
Auto Services	256	ASV 256 03/31/2016- Electrical and Electronic Systems	
Division	Department	Faculty Preparer	
Advanced Technologies and Public Service Careers Automotive Services		Justin Morningstar	
Date of Last Filed Assessment Report			

I. Assessment Results per Student Learning Outcome

Outcome 1: Read and interpret wiring diagrams and vehicle service manuals.

- Assessment Plan
 - o Assessment Tool: Common departmental exam; NATEF checklist
 - Assessment Date: Fall 2011
 - o Course section(s)/other population: All sections
 - o Number students to be assessed: All students
 - How the assessment will be scored: Common departmental exam will be scored using an answer sheet. NATEF checklist will be scored using the departmentally-developed rubric.
 - o Standard of success to be used for this assessment: 70% of students will score an average of 70% or higher.
 - Who will score and analyze the data: Departmental faculty will blind-score data when possible.
- 1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
	2015	

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
18	14

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

14 out of 18 students assessed because one withdrew and three did not complete the course.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

I assessed students from the only section, Winter 2015.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Common assessment for all sections using common departmental exam.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/A Not Available for viewing/evaluation. Scores of 5, 4 or 3 are considered "proficient."

NATEF checklist not used due to being unable to collect specific section data. Recommend removing this as an assessment tool for this outcome.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

Outcome #1. Read and interpret wiring diagrams and vehicle service manuals.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/A Not Available for viewing/evaluation.

Scores of 5, 4 or 3 are considered "proficient."

Based off common departmental Blackboard exam used in all sections

Results from common departmental exam:

[5]Superior = 9 Students

[4]Excellent = 5 Students

[3]Average[= 0 Students

[2]Below Avg = 0 Students

[1]Incomplete N/A Not Available for viewing/evaluation = 4 Students

The standard of success was met for this outcome because over 70% of students

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students must understand how to read and interpret wiring diagrams and vehicle service manuals to be successful in the laboratory setting. This outcome is for the advanced level class and builds off of information and techniques students learn in our basic level courses. The wide demographic of age range and life experience is an unspoken aspect of this data. Adult learners in the class who have work experience and employment in the field most certainly have an advantage over traditional students.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The students met the standard of success for outcome #1 (read and interpret wiring diagrams and vehicle service manuals). For continuous improvement, course curriculum needs to continue being standardized among all sections and faculty teaching this course. Continuing to promote advanced level student co-op participation will further continuous improvement because students in the class who have work experience and employment in the field most certainly have an advantage over traditional students.

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4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

I assessed students from the only section, Winter 2015.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Common assessment for all sections using common departmental exam.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/A Not Available for viewing/evaluation. Scores of 5, 4 or 3 are considered "proficient."

NATEF checklist was not used due to being unable to collect specific section data. Recommend removing common assessment exam and reworking collection of NATEF checklist data to work for assessment.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

Outcome #2. Diagnose and repair electrical circuits.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/A Not Available for viewing/evaluation.

Scores of 5, 4 or 3 are considered "proficient."

Based off common departmental Blackboard exam used in all sections

Results from common departmental exam:

[5]Superior = 9 Students

[4]Excellent = 5 Students

[3]Average[=0]Students

[2]Below Avg = 0 Students

[1]Incomplete N/A Not Available for viewing/evaluation = 4 Students

The standard of success was met for this outcome because over 70% of students scored an average of 70% or higher.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students must understand how to diagnose and repair electrical circuits efficiently to be successful in the laboratory setting. This outcome is for the advanced level class and builds off of information and techniques students learn in our basic level courses. The wide demographic of age range and life experience is an unspoken aspect of this data. Adult learners in the class who have work experience and

employment in the field most certainly have an advantage over traditional students.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The students met the standard of success for outcome #2 (diagnose and repair electrical circuits). For continuous improvement, course curriculum needs to continue being standardized among all sections and faculty teaching this course. Continuing to promote advanced level student co-op participation will further continuous improvement because students in the class who have work experience and employment in the field most certainly have an advantage over traditional students.

Outcome 3: Diagnose and evaluate electrical components, motors, actuators and audio and instrumentation circuits.

Assessment Plan

o Assessment Tool: Common departmental exam; NATEF checklist

Assessment Date: Fall 2011

o Course section(s)/other population: All sections

o Number students to be assessed: All students

- How the assessment will be scored: Common departmental exam will be scored using an answer sheet. NATEF checklist will be scored using the departmentally-developed rubric.
- Standard of success to be used for this assessment: 70% of students will score an average of 70% or higher.
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4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

I assessed students from the only section, Winter 2015.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Common Assessment for all sections using common departmental exam.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/ANot Available for viewing/evaluation. Scores of 5, 4 or 3 are considered "proficient."

NATEF checklist was not used due to being unable to collect specific section data. Recommend removing this as an assessment tool for this outcome.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

Outcome #3. Diagnose and evaluate electrical components, motors, actuators and audio and instrumentation circuits.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/A Not Available for viewing/evaluation.

Scores of 5, 4 or 3 are considered "proficient."

Based off common departmental Blackboard exam used in all sections

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The standard of success was met for this outcome because over 70% of students scored an average of 70% or higher.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students must understand how to diagnose and evaluate electrical components to be successful in the laboratory setting. This outcome is for the advanced level class and builds off of information and techniques students learn in our basic level courses. The wide demographic of age range and life experience is an unspoken aspect of this data. Adult learners in the class who have work experience and employment in the field most certainly have an advantage over traditional students.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Student performance met the standard of success for outcome #1 (read and interpret wiring diagrams and vehicle service manuals). For continuous improvement, course curriculum needs to continue being standardized among all sections and faculty teaching this course. Continuing to promote advance level student co-op participation will further continuous improvement because students in the class who have work experience and employment in the field most certainly have an advantage compared to traditional students.

Outcome 4: Demonstrate the proper use of tools and processes of electrical system diagnosis.

- Assessment Plan
 - o Assessment Tool: Common departmental; NATEF checklist exam

- Assessment Date: Fall 2011
- o Course section(s)/other population: All sections
- Number students to be assessed: All students
- How the assessment will be scored: Common departmental exam will be scored using an answer sheet. NATEF checklist will be scored using the departmentally-developed rubric.
- Standard of success to be used for this assessment: 70% of students will score an average of 70% or higher.
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14 out of 18 students were assessed because one withdrew and three failed to complete the course.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

I assessed students from the only section, Winter 2015.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

Common Assessment for all sections using common departmental exam.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/ANot Available for viewing/evaluation. Scores of 5, 4 or 3 are considered "proficient."

NATEF checklist was not used due to being unable to collect specific section data. Recommend removing common assessment exam and reworking collection of NATEF checklist data to work for assessment.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

Outcome #4: Demonstrate the proper use of tools and processes of electrical system diagnosis.

Evaluation Scale[5]Superior[4]Excellent[3]Average[2]Below Avg[1]Incomplete N/A Not Available for viewing/evaluation.

Scores of 5, 4 or 3 are considered "proficient."

Based off common departmental Blackboard exam used in all sections

Results from common departmental exam:

[5]Superior = 9 Students

[4]Excellent = 5 Students

[3]Average[=0]Students

[2]Below Avg = 0 Students

[1]Incomplete N/A Not Available for viewing/evaluation = 4 Students

The standard of success was met for this outcome because over 70% of students scored an average of 70% or higher.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students must demonstrate the proper use of tools and processes of electrical system diagnosis to be successful in the laboratory setting. This outcome is for the advanced level class and builds off of information and techniques students learn in our basic level courses. The wide demographic of age range and life experience is

an unspoken aspect of this data. Adult learners in the class who have work experience and employment in the field most certainly have an advantage compared to traditional students.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The students met the standard of success for outcome #4 (demonstrate the proper use of tools and processes of electrical system diagnosis). For continuous improvement, course curriculum needs to continue being standardized among all sections and faculty teaching this course. Continuing to promote advance level student co-op participation will further continuous improvement because students in the class who have work experience and employment in the field most certainly have an advantage compared to traditional students.

II. Course Summary and Action Plans Based on Assessment Results

1. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

Overall this class is doing a excellent job of meeting the needs of our students. The data shows that students who attend the class in its entirety have a high success rate. The assessment process showed that I need to do some work on the master syllabus, specifically on how the outcomes are assessed.

Currently, the laboratory-based skills in outcomes 1 and 4 are being assessed by a common departmental exam, and this method of assessment should be changed to a NATEF Skills checklist. Outcomes 2 and 3 are currently being assessed by both a common departmental exam and a NATEF Skills checklist; going forward, a common departmental exam should prove to be appropriate and sufficient.

2. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

During our next scheduled department meeting, I will present my action plan based on this assessment. I will point out areas of success and weakness, and give my recommendations for improvement.

3. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
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4. Is there anything that you would like to mention that was not already captured?

Data is included in analysis by outcome. Data is no longer available to attach as a file. Future assessment of this course will have availability for attached data sheet after improvements are made to the master syllabus.

III. Attached Files

ASV 256 Data

Faculty/Preparer:Justin Morningstar Date: 05/19/2017Department Chair:Allen DayDate: 06/06/2017Dean:Brandon TuckerDate: 06/21/2017

Assessment Committee Chair: Michelle Garey **Date:** 12/20/2017