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**SLO Assessment Cycle for AUTO 60A****Electrical Schematic Diagnosis**

**Assessment Initiated by:** [John Walton](#) (8508) in AUTO

**Outcome 1: Statement**

Student will diagnose an open circuit problem in which all or part of the circuit is inoperative. Student will interpret the work order description, apply basic circuit theory concepts using logical circuit tracing techniques and accurate prediction of voltage drops. Student will correctly navigate supporting documents prescribe a recommended repair.

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**Assessment Cycle Records:**

Outcome 1: Assessment Planning Modified: [12/08/2010]

**Assessment Strategy Used:**

Quarter: Fall 2010

Assessors: John Walton

Assessment Tools: Exams

Sections being assessed: 222

Outcome 1: Reflect & Enhance Modified: [12/08/2010]

**Number of people involved in Reflection and Enhancement: 2**

**Changes:****Methods:**

Assessment method for 60A is final exam

**Summary:**

Fall 2010 Auto 60A

Summary Items 1 - 6 below:

Total number of exams scored = 19

1. Student will diagnose an open circuit problem in which all or part of the circuit is inoperative. Correct = 69%

2. Student will interpret the work order description. Correct = 57%

3. Student will apply basic circuit theory concepts using logical circuit tracing techniques and accurate prediction of voltage drops. Correct = 74%

4. Student will correctly navigate supporting documents prescribe, a recommended repair. Correct = 80%

5. Student will diagnose an electrical feedback circuit problem in a lighting circuit using a logical diagnostic process. Correct = 69%

6.Student will interpret a customer based symptom that does not reveal the causal system in order to apply a logical diagnostic process for this type of problem. Correct = 87%

Total number of correct responses = 73%

I have found that the students are not fully prepared for this class. There are student issues with electrical basics and multi-meter usage. This is in part due to students that enroll before taking the introductory course, or they did not learn the basics in previous classes. This of course requires a little extra review in the beginning of class. I found that the students were able to master the essential skills of schematic diagram interpretation which is my minimum expectation.

**Enhancement (Part I):**

As a result of this SLO interpretation I have coordinated efforts with the Auto 60 instructor to improve the students understanding in certain areas of instruction. Auto 60 is an advisory to Auto 60A. I have also initiated an on line pre-work course module which required written permission from Toyota Motor Company and a subscription to a web hosting service (the DeAnza web team could not help with this due to incompatibility with Adobe flash products). The web module is designed as a self paced on line learning course with interactive learning features. In preparation for this course I will email students the web module password in advance so that the module may be reviewed on the first night.

**Enhancement (Part II):**

Future enhancements for 60A will include increased web based information and possible testing. I am considering some course modifications that may include a Toyota only lesson plan as well as an enhanced body system course that specialized in vehicle networks and multiplexing.

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